SDG COVER PAGE

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

Lab Code: ACE Case No.: 51879 MA No.: SDG No.: MBHHP1

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MBHHQ1	P4932-01	X			
MBHHQ2	P4932-02	X			
MBHHQ2D	P4932-03	X			
MBHHQ2S	P4932-04	X			
MBHHQ3	P4932-05	X			
MBHHQ4	P4932-06	X			
MBHHQ5	P4932-07	X			
MBHHQ6	P4932-08	X			
MBHHQ7	P4932-09	X			
MBHHQ8	P4932-10	X			
MBHHQ9	P4932-11	X			
MBHHP1	P4932-12	X			
MBHHP2	P4932-13	X			
MBHHP3	P4932-14	X			
MBHHP4	P4932-15	X			
MBHHP5	P4932-16	X			
MBHHP6	P4932-17	X			
MBHHP7	P4932-18	X			
MBHHP8	P4932-19	X			
MBHHP9	P4932-20	X			
MBHHQ0	P4932-21	X			
MBHHR0	P4932-22	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 # MBHHP1

USEPA CLP COC (LAB COPY)
DateShipped: 11/19/2024
CarrierName: FedEx
AirbillNo: 7700 7470 4458

CHAIN OF CUSTODY RECORD

Case #: 51879
Cooler #: 1

No: 2-111924-094038-0008
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
P121-SB-10-Z12-18	MBHHN7	Soil/		ICP-AES(35)	1220 (Wet ice < 6 C) (1)	P121-SB-10	11/15/2024 12:30	
P121-SB-10-Z18-24	MBHHN8	Soil/		ICP-AES(35)	1221 (Wet ice < 6 C) (1)	P121-SB-10	11/15/2024 12:30	
P121-SB-10-Z24-30	MBHHN9	Soil/		ICP-AES(35)	1222 (Wet ice < 6 C) (1)	P121-SB-10	11/15/2024 12:30	
P121-SB-10-Z30-36	MBHHP0	Soil/		ICP-AES(35)	1223 (Wet ice < 6 C) (1)	P121-SB-10	11/15/2024 12:30	
P120-SB-11-Z00-02	MBHHQ1	Soil/		ICP-AES(35)	1203 (Wet ice < 6 C) (1)	P120-SB-11	11/15/2024 10:15	1
P120-SB-11-Z02-06	MBHHQ2	Soil/		ICP-AES(35)	1204 (Wet ice < 6 C) (2)	P120-SB-11	11/15/2024 10:15	2
P120-SB-11-Z06-12	MBHHQ3	Soil/		ICP-AES(35)	1205 (Wet ice < 6 C) (1)	P120-SB-11	11/15/2024 10:15	3
P120-SB-11-Z12-18	MBHHQ4	Soil/		ICP-AES(35)	1206 (Wet ice < 6 C) (1)	P120-SB-11	11/15/2024 10:15	4
P120-SB-11-Z18-24	MBHHQ5	Soil/		ICP-AES(35)	1207 (Wet ice < 6 C) (1)	P120-SB-11	11/15/2024 10:15	5
P120-SB-11-Z24-30	MBHHQ6	Soil/		ICP-AES(35)	1208 (Wet ice < 6 C) (1)	P120-SB-11	11/15/2024 10:15	6

Sample(s) to be used for Lab QC: P120-SB-11-Z02-06 Tag 1204 - Special Instructions: Additional sample volume provided for MBHHM8 and MBHHQ2 is for MS/MSD.	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: ICP-AES=CLP Routine - SFAM01.1/LSASD SOP C-109 Metals	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
1 Cooler		11/19/2024 14:45		11-20-24 1010	2.9°C IR Gun #1
		N/A			Custody seals INTACT
			11/19/24		Temp Blk - present

68HERH20D0011

SDG # MBHHP1

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 2-111924-094038-0008

DateShipped: 11/19/2024
CarrierName: FedEx
AirbillNo: 7700 7470 4458

Case #: 51879
Cooler #: 1

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
P120-SB-11-Z30-36	MBHHQ7	Soil/		ICP-AES(35)	1209 (Wet ice < 6 C) (1)	P120-SB-11	11/15/2024 10:15	7
P120-SB-12-Z00-02-FD	MBHHQ8	Soil/		ICP-AES(35)	5435 (Wet ice < 6 C) (1)	P120-SB-12	11/15/2024 10:40	8
P121-SB-10-Z30-36-FD	MBHHQ9	Soil/		ICP-AES(35)	5436 (Wet ice < 6 C) (1)	P121-SB-10	11/15/2024 12:30	9

N/A
11/19/24

Special Instructions: Additional sample volume provided for MBHHM8 and MBHHQ2 is for MS/MSD.

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: ICP-AES=CLP Routine - SFAM01.1/LSASD SOP C-109 Metals

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
1 Cooler	UST	11/19/24 14:45		11-20-24 1010	2.9°C IR Gun #1
		N/A 11/19/24			custody seals intact
					Temp Blk present

68HERH20D0011

SDG # MBHHP1

USEPA CLP COC (LAB COPY)
DateShipped: 11/19/2024
CarrierName: FedEx
AirbillNo: 7700 7470 4491

CHAIN OF CUSTODY RECORD

Case #: 51879
Cooler #: 2

No: 2-111924-113633-0009
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
P120-SB-10-Z00-02	MBHHP1	Soil/		ICP-AES(35)	1196 (Wet ice < 6 C) (1)	P120-SB-10	11/15/2024 10:05	
P120-SB-10-Z02-06	MBHHP2	Soil/		ICP-AES(35)	1197 (Wet ice < 6 C) (1)	P120-SB-10	11/15/2024 10:05	
P120-SB-10-Z06-12	MBHHP3	Soil/		ICP-AES(35)	1198 (Wet ice < 6 C) (1)	P120-SB-10	11/15/2024 10:05	
P120-SB-10-Z12-18	MBHHP4	Soil/		ICP-AES(35)	1199 (Wet ice < 6 C) (1)	P120-SB-10	11/15/2024 10:05	
P120-SB-10-Z18-24	MBHHP5	Soil/		ICP-AES(35)	1200 (Wet ice < 6 C) (1)	P120-SB-10	11/15/2024 10:05	
P120-SB-10-Z24-30	MBHHP6	Soil/		ICP-AES(35)	1201 (Wet ice < 6 C) (1)	P120-SB-10	11/15/2024 10:05	
P113-SB-14-Z00-02	MBHHP7	Soil/		ICP-AES(35)	1147 (Wet ice < 6 C) (1)	P113-SB-14	11/18/2024 14:30	
P113-SB-14-Z02-06	MBHHP8	Soil/		ICP-AES(35)	1148 (Wet ice < 6 C) (1)	P113-SB-14	11/18/2024 14:30	
P113-SB-14-Z06-12	MBHHP9	Soil/		ICP-AES(35)	1149 (Wet ice < 6 C) (1)	P113-SB-14	11/18/2024 14:30	
P113-SB-14-Z12-18	MBHHQ0	Soil/		ICP-AES(35)	1150 (Wet ice < 6 C) (1)	P113-SB-14	11/18/2024 14:30	

Special Instructions: Sample MBHHS4 is a rinse blank.

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: ICP-AES=CLP Routine - SFAM01.1/LSASD SOP C-109 Metals

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
1 Cooler	[signature] CISP	11/19/2024 1535	[signature]	11-20-24 1010	3.3° IR GUN #1
			N/A [signature]	11/19/24	custody seals intact Temp blk present

68HERH20D0011

SDG # MBHHP1

USEPA CLP COC (LAB COPY)
DateShipped: 11/19/2024
CarrierName: FedEx
AirbillNo: 7700 7470 4491

CHAIN OF CUSTODY RECORD

Case #: 51879
Cooler #: 2

No: 2-111924-113633-0009
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
P120-SB-10-Z00-02-FD	MBHHR0	Soil/		ICP-AES(35)	5437 (Wet ice < 6 C) (1)	P120-SB-10	11/15/2024 10:05	
P111-SB-30-Z00-02	MBHHR1	Soil/		ICP-AES(35)	1126 (Wet ice < 6 C) (1)	P111-SB-30	11/18/2024 15:10	
P111-SB-30-Z02-06	MBHHR2	Soil/		ICP-AES(35)	1127 (Wet ice < 6 C) (1)	P111-SB-30	11/18/2024 15:10	
P111-SB-30-Z06-12	MBHHR3	Soil/		ICP-AES(35)	1128 (Wet ice < 6 C) (1)	P111-SB-30	11/18/2024 15:10	
P111-SB-30-Z12-18	MBHHR4	Soil/		ICP-AES(35)	1129 (Wet ice < 6 C) (1)	P111-SB-30	11/18/2024 15:10	
P111-SB-30-Z18-24	MBHHR5	Soil/		ICP-AES(35)	1130 (Wet ice < 6 C) (1)	P111-SB-30	11/18/2024 15:10	
P111-SB-30-Z24-30	MBHHR6	Soil/		ICP-AES(35)	1131 (Wet ice < 6 C) (1)	P111-SB-30	11/18/2024 15:10	
P143-SB-26-Z00-02	MBHHR7	Soil/		ICP-AES(35)	2192 (Wet ice < 6 C) (1)	P143-SB-26	11/19/2024 09:00	
P143-SB-26-Z02-06	MBHHR8	Soil/		ICP-AES(35)	2193 (Wet ice < 6 C) (1)	P143-SB-26	11/19/2024 09:00	
P143-SB-26-Z06-12	MBHHR9	Soil/		ICP-AES(35)	2194 (Wet ice < 6 C) (1)	P143-SB-26	11/19/2024 09:00	

Special Instructions: Sample MBHHS4 is a rinse blank.

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: ICP-AES=CLP Routine - SFAM01.1/LSASD SOP C-109 Metals

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
1 Cooler	WSP	11/19/24 1535		11-20-24 1010	3.3°C TR GUN #1
					custody seals INTACT
			N/A		Temp blk present
			11/18/24		

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 1 of 2
Received By (Print Name) George Nelson		Log-in Date 11/20/2024
Received By (Signature)		
Case Number 51879	SDG No. MBHHQ1	MA No. N/A

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.	770074704458 1
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.9 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	11/20/2024
12.Time Received	10:10

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MBHHQ1	N/A	1203	P4932-01	Intact
2	MBHHQ2	N/A	1204	P4932-02	Intact
3	MBHHQ2D	N/A	1204	P4932-03	Intact
4	MBHHQ2S	N/A	1204	P4932-04	Intact
5	MBHHQ3	N/A	1205	P4932-05	Intact
6	MBHHQ4	N/A	1206	P4932-06	Intact
7	MBHHQ5	N/A	1207	P4932-07	Intact
8	MBHHQ6	N/A	1208	P4932-08	Intact
9	MBHHQ7	N/A	1209	P4932-09	Intact
10	MBHHQ8	N/A	5435	P4932-10	Intact
11	MBHHQ9	N/A	5436	P4932-11	Intact
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A
Date	11/20/24	Logbook Page No.	N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 2 of 2
Received By (Print Name) GOASG NGUYEN		Log-in Date **11/20/2024**
Received By (Signature)		
Case Number 51879	SDG No. MBHHP1 P2	MA No. N/A

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.	770074704491 2
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	3.3 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	11/20/2024
12.Time Received	10:10

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MBHHP1	N/A	1196	P4932-12	Intact
2	MBHHP2	N/A	1197	P4932-13	Intact
3	MBHHP3	N/A	1198	P4932-14	Intact
4	MBHHP4	N/A	1199	P4932-15	Intact
5	MBHHP5	N/A	1200	P4932-16	Intact
6	MBHHP6	N/A	1201	P4932-17	Intact
7	MBHHP7	N/A	1147	P4932-18	Intact
8	MBHHP8	N/A	1148	P4932-19	Intact
9	MBHHP9	N/A	1149	P4932-20	Intact
10	MBHHQ0	N/A	1150	P4932-21	Intact
11	MBHHR0	N/A	5437	P4932-22	Intact
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A
Date	11/20/24	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.	**51879**	SDG NO.	**MBHHP1**
MA NO.		SOW NO.	**SFAM01.1**

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

	PAGE NOs: FROM	PAGE NOs: TO	CHECK LAB	CHECK REGION
1. SDG Cover Page	1	1	✓	
2. Traffic Report/Chain of Custody Record(s)	2	5	✓	
3. Sample Log-In Sheet (DC-1)	6	7	✓	
4. CSF Inventory Sheet (DC-2)	8	10	✓	
5. SDG Narrative	11	12	✓	
6. Communication Logs	NA	NA	✓	
7. Percent Solids Log	13	15	✓	
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	16	35	✓	
9. Instrument raw data by instrument in analysis order	36	701	✓	
Other Data				
10. Standard and Reagent Preparation Logs	702	873	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	874	875	✓	
12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	876	896	✓	
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	NA	NA	✓	
18. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
19. Standard and Reagent Preparation Logs	NA	NA	✓	
20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
21. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	

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

	PAGE NOs: FROM	TO	CHECK LAB	REGION
Additional				
44. EPA Shipping/Receiving Documents				
Airbill (No. of Shipments 2)	897	898	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	899	900	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	901	902	✓	
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 # MBHHP1
CASE # 51879
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # P4932

A. Number of Samples and Date of Receipt

20 Soil samples were delivered to the laboratory intact on 11/20/2024.

B. Parameters

Test requested for Metals CLP FULL = Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc.

C. Cooler Temp

Indicator Bottle**: Presence/**Absence

Cooler: 2.9^{o}C, 3.3^{o}C

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

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

E. Corrective Action taken for above:

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

F. 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.

284 Sheffield Street
Mountainside, NJ 07092

G. 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 MBHHQ1 For Antimony:

If C = 0.0271995 ppm
Vf = 100 ml
W = 1.10 g
S = 0.823(82.3/100)
DF = 1

$$\text{Concentration (mg/kg)} = 0.0271995 \times \frac{100}{1.10 \times 0.823} \times 1$$

$$= 3.00447 \text{ mg/kg}$$

= 3.0 mg/kg (Reported Result with Signification

H. QA/ QC

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

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

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 11/21/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 13:25
In Date: 11/20/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:05
Out Date: 11/21/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133532

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
P4932-01	MBHHQ1	1	1.15	8.37	9.52	8.04	82.3	
P4932-02	MBHHQ2	2	1.15	8.77	9.92	8.55	84.4	
P4932-03	MBHHQ2D	3	1.15	8.77	9.92	8.55	84.4	
P4932-04	MBHHQ2S	4	1.15	8.77	9.92	8.55	84.4	
P4932-05	MBHHQ3	5	1.14	8.80	9.94	8.53	84.0	
P4932-06	MBHHQ4	6	1.19	8.66	9.85	8.11	79.9	
P4932-07	MBHHQ5	7	1.13	8.76	9.89	8.37	82.6	
P4932-08	MBHHQ6	8	1.17	8.56	9.73	8.38	84.2	
P4932-09	MBHHQ7	9	1.16	8.73	9.89	8.92	88.9	
P4932-10	MBHHQ8	10	1.13	8.81	9.94	7.98	77.8	
P4932-11	MBHHQ9	11	1.13	8.68	9.81	8.56	85.6	
P4932-12	MBHHP1	12	1.19	8.62	9.81	7.58	74.1	
P4932-13	MBHHP2	13	1.15	8.82	9.97	8.28	80.8	
P4932-14	MBHHP3	14	1.13	8.80	9.93	8.39	82.5	
P4932-15	MBHHP4	15	1.18	8.76	9.94	8.7	85.8	
P4932-16	MBHHP5	16	1.19	8.53	9.72	8.44	85.0	
P4932-17	MBHHP6	17	1.16	8.52	9.68	8.2	82.6	
P4932-18	MBHHP7	18	1.16	8.54	9.7	7.37	72.7	
P4932-19	MBHHP8	19	1.17	8.79	9.96	7.56	72.7	
P4932-20	MBHHP9	20	1.19	8.71	9.9	7.96	77.7	
P4932-21	MBHHQ0	21	1.13	8.70	9.83	8.02	79.2	
P4932-22	MBHHR0	22	1.15	8.81	9.96	7.74	74.8	

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

WORKLIST(Hardcopy Internal Chain)

VB133532

WorkList Name : %1-p4932 **WorkList ID :** 185613 **Department :** Wet-Chemistry **Date :** 11-20-2024 12:03:09

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4932-01	MBHHQ1	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/15/2024	Chemtech -SO
P4932-02	MBHHQ2	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/15/2024	Chemtech -SO
P4932-03	MBHHQ2D	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/15/2024	Chemtech -SO
P4932-04	MBHHQ2S	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/15/2024	Chemtech -SO
P4932-05	MBHHQ3	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/15/2024	Chemtech -SO
P4932-06	MBHHQ4	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/15/2024	Chemtech -SO
P4932-07	MBHHQ5	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/15/2024	Chemtech -SO
P4932-08	MBHHQ6	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/15/2024	Chemtech -SO
P4932-09	MBHHQ7	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/15/2024	Chemtech -SO
P4932-10	MBHHQ8	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/15/2024	Chemtech -SO
P4932-11	MBHHQ9	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/15/2024	Chemtech -SO
P4932-12	MBHHP1	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/15/2024	Chemtech -SO
P4932-13	MBHHP2	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/15/2024	Chemtech -SO
P4932-14	MBHHP3	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/15/2024	Chemtech -SO
P4932-15	MBHHP4	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/15/2024	Chemtech -SO
P4932-16	MBHHP5	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/15/2024	Chemtech -SO
P4932-17	MBHHP6	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/15/2024	Chemtech -SO
P4932-18	MBHHP7	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/15/2024	Chemtech -SO
P4932-19	MBHHP8	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/18/2024	Chemtech -SO
P4932-20	MBHHP9	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/18/2024	Chemtech -SO
P4932-21	MBHHQ0	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/18/2024	Chemtech -SO

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Date/Time 11-20-24 12:40

Raw Sample Received by: JD WC

Raw Sample Relinquished by: J.C (SM)

Date/Time 11-20-24 13:30

Raw Sample Received by: J.C (SM)

Raw Sample Relinquished by: JP WC

WORKLIST(Hardcopy Internal Chain)

WP 133532

WorkList Name : %1-p4932 **WorkList ID :** 185613 **Department :** Wet-Chemistry **Date :** 11-20-2024 12:03:09

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4932-22	MBHHR0	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/15/2024	Chemtech -SO

15

Date/Time 11-20-24 12:40

Raw Sample Received by: JB WC)

Raw Sample Relinquished by: [illegible]

Date/Time 11-20-24 13:30

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

EPA SAMPLE NO.

MBHHP1

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHHP1

Matrix: SOIL Lab Sample ID: P4932-12

% Solids: 74.1 Date Received: 11/20/2024

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		12/13/2024	2108
7440-36-0	Antimony	3.9	J	12/13/2024	2108
7440-38-2	Arsenic	14		12/13/2024	2108
7440-39-3	Barium	110		12/13/2024	2108
7440-41-7	Beryllium	0.66		12/13/2024	2108
7440-43-9	Cadmium	1.4		12/13/2024	2108
7440-70-2	Calcium	5300		12/13/2024	2108
7440-47-3	Chromium	31		12/13/2024	2108
7440-48-4	Cobalt	12		12/13/2024	2108
7440-50-8	Copper	36		12/13/2024	2108
7439-89-6	Iron	20000		12/13/2024	2108
7439-92-1	Lead	150		12/13/2024	2108
7439-95-4	Magnesium	2300		12/13/2024	2108
7439-96-5	Manganese	1700		12/13/2024	2108
7440-02-0	Nickel	29		12/13/2024	2108
7440-09-7	Potassium	830		12/13/2024	2108
7782-49-2	Selenium	2.1	J	12/13/2024	2108
7440-22-4	Silver	1.1	U	12/13/2024	2108
7440-23-5	Sodium	230	J	12/13/2024	2108
7440-28-0	Thallium	2.0	J	12/13/2024	2108
7440-62-2	Vanadium	20		12/13/2024	2108
7440-66-6	Zinc	220	*	12/13/2024	2108

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

Comments:

EPA SAMPLE NO.

MBHHP2

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHHP1

Matrix: SOIL Lab Sample ID: P4932-13

% Solids: 80.8 Date Received: 11/20/2024

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	7700		12/13/2024	2112
7440-36-0	Antimony	3.6	J	12/13/2024	2112
7440-38-2	Arsenic	14		12/13/2024	2112
7440-39-3	Barium	110		12/13/2024	2112
7440-41-7	Beryllium	0.66		12/13/2024	2112
7440-43-9	Cadmium	2.2		12/13/2024	2112
7440-70-2	Calcium	5400		12/13/2024	2112
7440-47-3	Chromium	15		12/13/2024	2112
7440-48-4	Cobalt	12		12/13/2024	2112
7440-50-8	Copper	38		12/13/2024	2112
7439-89-6	Iron	20000		12/13/2024	2112
7439-92-1	Lead	160		12/13/2024	2112
7439-95-4	Magnesium	2600		12/13/2024	2112
7439-96-5	Manganese	1700		12/13/2024	2112
7440-02-0	Nickel	24		12/13/2024	2112
7440-09-7	Potassium	650		12/13/2024	2112
7782-49-2	Selenium	2.0	J	12/13/2024	2112
7440-22-4	Silver	1.1	U	12/13/2024	2112
7440-23-5	Sodium	190	J	12/13/2024	2112
7440-28-0	Thallium	1.8	J	12/13/2024	2112
7440-62-2	Vanadium	20		12/13/2024	2112
7440-66-6	Zinc	220	*	12/13/2024	2112

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

Comments:

EPA SAMPLE NO.

MBHHP3

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHHP1

Matrix: SOIL Lab Sample ID: P4932-14

% Solids: 82.5 Date Received: 11/20/2024

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	8400		12/13/2024	2116
7440-36-0	Antimony	4.2	J	12/13/2024	2116
7440-38-2	Arsenic	15		12/13/2024	2116
7440-39-3	Barium	110		12/13/2024	2116
7440-41-7	Beryllium	0.69		12/13/2024	2116
7440-43-9	Cadmium	1.4		12/13/2024	2116
7440-70-2	Calcium	4400		12/13/2024	2116
7440-47-3	Chromium	14		12/13/2024	2116
7440-48-4	Cobalt	12		12/13/2024	2116
7440-50-8	Copper	34		12/13/2024	2116
7439-89-6	Iron	20000		12/13/2024	2116
7439-92-1	Lead	150		12/13/2024	2116
7439-95-4	Magnesium	2400		12/13/2024	2116
7439-96-5	Manganese	1700		12/13/2024	2116
7440-02-0	Nickel	21		12/13/2024	2116
7440-09-7	Potassium	600		12/13/2024	2116
7782-49-2	Selenium	1.7	J	12/13/2024	2116
7440-22-4	Silver	1.1	U	12/13/2024	2116
7440-23-5	Sodium	310	J	12/13/2024	2116
7440-28-0	Thallium	2.2	J	12/13/2024	2116
7440-62-2	Vanadium	21		12/13/2024	2116
7440-66-6	Zinc	190	*	12/13/2024	2116

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

Comments:

EPA SAMPLE NO.

MBHHP4

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHHP1

Matrix: SOIL Lab Sample ID: P4932-15

% Solids: 85.8 Date Received: 11/20/2024

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	7600		12/13/2024	2120
7440-36-0	Antimony	3.9	J	12/13/2024	2120
7440-38-2	Arsenic	13		12/13/2024	2120
7440-39-3	Barium	65		12/13/2024	2120
7440-41-7	Beryllium	0.65		12/13/2024	2120
7440-43-9	Cadmium	0.76		12/13/2024	2120
7440-70-2	Calcium	2300		12/13/2024	2120
7440-47-3	Chromium	11		12/13/2024	2120
7440-48-4	Cobalt	11		12/13/2024	2120
7440-50-8	Copper	21		12/13/2024	2120
7439-89-6	Iron	19000		12/13/2024	2120
7439-92-1	Lead	60		12/13/2024	2120
7439-95-4	Magnesium	1900		12/13/2024	2120
7439-96-5	Manganese	1400		12/13/2024	2120
7440-02-0	Nickel	18		12/13/2024	2120
7440-09-7	Potassium	410	J	12/13/2024	2120
7782-49-2	Selenium	2.0	J	12/13/2024	2120
7440-22-4	Silver	0.93	U	12/13/2024	2120
7440-23-5	Sodium	170	J	12/13/2024	2120
7440-28-0	Thallium	1.3	J	12/13/2024	2120
7440-62-2	Vanadium	19		12/13/2024	2120
7440-66-6	Zinc	82	*	12/13/2024	2120

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

Comments:

EPA SAMPLE NO.

MBHHP5

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHHP1

Matrix: SOIL Lab Sample ID: P4932-16

% Solids: 85 Date Received: 11/20/2024

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		12/13/2024	2123
7440-36-0	Antimony	4.1	J	12/13/2024	2123
7440-38-2	Arsenic	14		12/13/2024	2123
7440-39-3	Barium	65		12/13/2024	2123
7440-41-7	Beryllium	0.67		12/13/2024	2123
7440-43-9	Cadmium	0.67		12/13/2024	2123
7440-70-2	Calcium	2400		12/13/2024	2123
7440-47-3	Chromium	12		12/13/2024	2123
7440-48-4	Cobalt	12		12/13/2024	2123
7440-50-8	Copper	32		12/13/2024	2123
7439-89-6	Iron	21000		12/13/2024	2123
7439-92-1	Lead	48		12/13/2024	2123
7439-95-4	Magnesium	2300		12/13/2024	2123
7439-96-5	Manganese	1700		12/13/2024	2123
7440-02-0	Nickel	20		12/13/2024	2123
7440-09-7	Potassium	590		12/13/2024	2123
7782-49-2	Selenium	2.3	J	12/13/2024	2123
7440-22-4	Silver	1.0	U	12/13/2024	2123
7440-23-5	Sodium	210	J	12/13/2024	2123
7440-28-0	Thallium	1.4	J	12/13/2024	2123
7440-62-2	Vanadium	19		12/13/2024	2123
7440-66-6	Zinc	77	*	12/13/2024	2123

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

Comments:

EPA SAMPLE NO.

MBHHP6

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHHP1

Matrix: SOIL Lab Sample ID: P4932-17

% Solids: 82.6 Date Received: 11/20/2024

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	7800		12/13/2024	2127
7440-36-0	Antimony	3.9	J	12/13/2024	2127
7440-38-2	Arsenic	18		12/13/2024	2127
7440-39-3	Barium	81		12/13/2024	2127
7440-41-7	Beryllium	0.57		12/13/2024	2127
7440-43-9	Cadmium	0.69		12/13/2024	2127
7440-70-2	Calcium	2600		12/13/2024	2127
7440-47-3	Chromium	11		12/13/2024	2127
7440-48-4	Cobalt	15		12/13/2024	2127
7440-50-8	Copper	33		12/13/2024	2127
7439-89-6	Iron	20000		12/13/2024	2127
7439-92-1	Lead	51		12/13/2024	2127
7439-95-4	Magnesium	1900		12/13/2024	2127
7439-96-5	Manganese	2700		12/13/2024	2127
7440-02-0	Nickel	19		12/13/2024	2127
7440-09-7	Potassium	630		12/13/2024	2127
7782-49-2	Selenium	3.2	J	12/13/2024	2127
7440-22-4	Silver	1.0	U	12/13/2024	2127
7440-23-5	Sodium	200	J	12/13/2024	2127
7440-28-0	Thallium	3.2		12/13/2024	2127
7440-62-2	Vanadium	16		12/13/2024	2127
7440-66-6	Zinc	71	*	12/13/2024	2127

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

Comments:

EPA SAMPLE NO.

MBHHP7

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHHP1

Matrix: SOIL Lab Sample ID: P4932-18

% Solids: 72.7 Date Received: 11/20/2024

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		12/13/2024	2131
7440-36-0	Antimony	3.5	J	12/13/2024	2131
7440-38-2	Arsenic	12		12/13/2024	2131
7440-39-3	Barium	240		12/13/2024	2131
7440-41-7	Beryllium	0.72		12/13/2024	2131
7440-43-9	Cadmium	1.3		12/13/2024	2131
7440-70-2	Calcium	14000		12/13/2024	2131
7440-47-3	Chromium	18		12/13/2024	2131
7440-48-4	Cobalt	9.6		12/13/2024	2131
7440-50-8	Copper	50		12/13/2024	2131
7439-89-6	Iron	18000		12/13/2024	2131
7439-92-1	Lead	790		12/13/2024	2131
7439-95-4	Magnesium	4800		12/13/2024	2131
7439-96-5	Manganese	760		12/13/2024	2131
7440-02-0	Nickel	23		12/13/2024	2131
7440-09-7	Potassium	530		12/13/2024	2131
7782-49-2	Selenium	3.6	U	12/13/2024	2131
7440-22-4	Silver	1.0	U	12/13/2024	2131
7440-23-5	Sodium	220	J	12/13/2024	2131
7440-28-0	Thallium	1.4	J	12/13/2024	2131
7440-62-2	Vanadium	19		12/13/2024	2131
7440-66-6	Zinc	510	*	12/13/2024	2131

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

Comments:

EPA SAMPLE NO.

MBHHP8

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHHP1

Matrix: SOIL Lab Sample ID: P4932-19

% Solids: 72.7 Date Received: 11/20/2024

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	9000		12/13/2024	2135
7440-36-0	Antimony	4.3	J	12/13/2024	2135
7440-38-2	Arsenic	11		12/13/2024	2135
7440-39-3	Barium	220		12/13/2024	2135
7440-41-7	Beryllium	1.2		12/13/2024	2135
7440-43-9	Cadmium	1.1		12/13/2024	2135
7440-70-2	Calcium	12000		12/13/2024	2135
7440-47-3	Chromium	17		12/13/2024	2135
7440-48-4	Cobalt	11		12/13/2024	2135
7440-50-8	Copper	42		12/13/2024	2135
7439-89-6	Iron	22000		12/13/2024	2135
7439-92-1	Lead	720		12/13/2024	2135
7439-95-4	Magnesium	4200		12/13/2024	2135
7439-96-5	Manganese	670		12/13/2024	2135
7440-02-0	Nickel	25		12/13/2024	2135
7440-09-7	Potassium	770		12/13/2024	2135
7782-49-2	Selenium	0.94	J	12/13/2024	2135
7440-22-4	Silver	1.1	U	12/13/2024	2135
7440-23-5	Sodium	350	J	12/13/2024	2135
7440-28-0	Thallium	0.80	J	12/13/2024	2135
7440-62-2	Vanadium	23		12/13/2024	2135
7440-66-6	Zinc	420	*	12/13/2024	2135

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

Comments:

EPA SAMPLE NO.

MBHHP9

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHHP1

Matrix: SOIL Lab Sample ID: P4932-20

% Solids: 77.7 Date Received: 11/20/2024

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	6900		12/13/2024	2139
7440-36-0	Antimony	3.2	J	12/13/2024	2139
7440-38-2	Arsenic	12		12/13/2024	2139
7440-39-3	Barium	260		12/13/2024	2139
7440-41-7	Beryllium	0.66		12/13/2024	2139
7440-43-9	Cadmium	0.93		12/13/2024	2139
7440-70-2	Calcium	21000		12/13/2024	2139
7440-47-3	Chromium	12		12/13/2024	2139
7440-48-4	Cobalt	11		12/13/2024	2139
7440-50-8	Copper	38		12/13/2024	2139
7439-89-6	Iron	19000		12/13/2024	2139
7439-92-1	Lead	600		12/13/2024	2139
7439-95-4	Magnesium	4200		12/13/2024	2139
7439-96-5	Manganese	1300		12/13/2024	2139
7440-02-0	Nickel	17		12/13/2024	2139
7440-09-7	Potassium	500	J	12/13/2024	2139
7782-49-2	Selenium	4.0	U	12/13/2024	2139
7440-22-4	Silver	1.1	U	12/13/2024	2139
7440-23-5	Sodium	210	J	12/13/2024	2139
7440-28-0	Thallium	2.6	J	12/13/2024	2139
7440-62-2	Vanadium	18		12/13/2024	2139
7440-66-6	Zinc	280	*	12/13/2024	2139

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

Comments:

EPA SAMPLE NO.

MBHHQ0

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHHP1

Matrix: SOIL Lab Sample ID: P4932-21

% Solids: 79.2 Date Received: 11/20/2024

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	6400		12/13/2024	2207
7440-36-0	Antimony	2.4	J	12/13/2024	2207
7440-38-2	Arsenic	9.4		12/13/2024	2207
7440-39-3	Barium	200		12/13/2024	2207
7440-41-7	Beryllium	0.64		12/13/2024	2207
7440-43-9	Cadmium	0.79		12/13/2024	2207
7440-70-2	Calcium	21000		12/13/2024	2207
7440-47-3	Chromium	12		12/13/2024	2207
7440-48-4	Cobalt	9.7		12/13/2024	2207
7440-50-8	Copper	37		12/13/2024	2207
7439-89-6	Iron	15000		12/13/2024	2207
7439-92-1	Lead	560		12/13/2024	2207
7439-95-4	Magnesium	7100		12/13/2024	2207
7439-96-5	Manganese	880		12/13/2024	2207
7440-02-0	Nickel	17		12/13/2024	2207
7440-09-7	Potassium	480	J	12/13/2024	2207
7782-49-2	Selenium	3.9	U	12/13/2024	2207
7440-22-4	Silver	1.1	U	12/13/2024	2207
7440-23-5	Sodium	210	J	12/13/2024	2207
7440-28-0	Thallium	2.6	J	12/13/2024	2207
7440-62-2	Vanadium	16		12/13/2024	2207
7440-66-6	Zinc	280	*	12/13/2024	2207

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

Comments:

EPA SAMPLE NO.

MBHHQ1

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHHP1

Matrix: SOIL Lab Sample ID: P4932-01

% Solids: 82.3 Date Received: 11/20/2024

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	5900		12/13/2024	2038
7440-36-0	Antimony	3.0	J	12/13/2024	2038
7440-38-2	Arsenic	14		12/13/2024	2038
7440-39-3	Barium	140		12/13/2024	2038
7440-41-7	Beryllium	0.55		12/13/2024	2038
7440-43-9	Cadmium	1.3		12/13/2024	2038
7440-70-2	Calcium	12000		12/13/2024	2038
7440-47-3	Chromium	16		12/13/2024	2038
7440-48-4	Cobalt	10		12/13/2024	2038
7440-50-8	Copper	72		12/13/2024	2038
7439-89-6	Iron	15000		12/13/2024	2038
7439-92-1	Lead	290		12/13/2024	2038
7439-95-4	Magnesium	3900		12/13/2024	2038
7439-96-5	Manganese	1100		12/13/2024	2038
7440-02-0	Nickel	18		12/13/2024	2038
7440-09-7	Potassium	630		12/13/2024	2038
7782-49-2	Selenium	3.9	U	12/13/2024	2038
7440-22-4	Silver	1.1	U	12/13/2024	2038
7440-23-5	Sodium	200	J	12/13/2024	2038
7440-28-0	Thallium	2.1	J	12/13/2024	2038
7440-62-2	Vanadium	16		12/13/2024	2038
7440-66-6	Zinc	240	*	12/13/2024	2038

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

Comments:

EPA SAMPLE NO.

MBHHQ2

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHHP1

Matrix: SOIL Lab Sample ID: P4932-02

% Solids: 84.4 Date Received: 11/20/2024

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		12/02/2024	2036
7440-36-0	Antimony	0.72	J	12/02/2024	2036
7440-38-2	Arsenic	13		12/02/2024	2036
7440-39-3	Barium	180		12/02/2024	2036
7440-41-7	Beryllium	0.49	J	12/02/2024	2036
7440-43-9	Cadmium	2.8		12/02/2024	2036
7440-70-2	Calcium	26000		12/02/2024	2036
7440-47-3	Chromium	16		12/02/2024	2036
7440-48-4	Cobalt	9.7		12/02/2024	2036
7440-50-8	Copper	83		12/02/2024	2036
7439-89-6	Iron	18000		12/02/2024	2036
7439-92-1	Lead	420		12/02/2024	2036
7439-95-4	Magnesium	7600		12/02/2024	2036
7439-96-5	Manganese	1200		12/02/2024	2036
7440-02-0	Nickel	20		12/02/2024	2036
7440-09-7	Potassium	920		12/02/2024	2036
7782-49-2	Selenium	3.8	U	12/02/2024	2036
7440-22-4	Silver	1.1	U	12/02/2024	2036
7440-23-5	Sodium	190	J	12/02/2024	2036
7440-28-0	Thallium	2.7	U	12/02/2024	2036
7440-62-2	Vanadium	20		12/02/2024	2036
7440-66-6	Zinc	270	*	12/02/2024	2036

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

Comments:

EPA SAMPLE NO.

MBHHQ3

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHHP1

Matrix: SOIL Lab Sample ID: P4932-05

% Solids: 84 Date Received: 11/20/2024

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	6900		12/13/2024	2042
7440-36-0	Antimony	6.4		12/13/2024	2042
7440-38-2	Arsenic	20		12/13/2024	2042
7440-39-3	Barium	380		12/13/2024	2042
7440-41-7	Beryllium	0.82		12/13/2024	2042
7440-43-9	Cadmium	3.2		12/13/2024	2042
7440-70-2	Calcium	20000		12/13/2024	2042
7440-47-3	Chromium	21		12/13/2024	2042
7440-48-4	Cobalt	12		12/13/2024	2042
7440-50-8	Copper	1100		12/13/2024	2042
7439-89-6	Iron	24000		12/13/2024	2042
7439-92-1	Lead	940		12/13/2024	2042
7439-95-4	Magnesium	3700		12/13/2024	2042
7439-96-5	Manganese	1200		12/13/2024	2042
7440-02-0	Nickel	28		12/13/2024	2042
7440-09-7	Potassium	650		12/13/2024	2042
7782-49-2	Selenium	3.6	U	12/13/2024	2042
7440-22-4	Silver	1.0	U	12/13/2024	2042
7440-23-5	Sodium	280	J	12/13/2024	2042
7440-28-0	Thallium	2.6		12/13/2024	2042
7440-62-2	Vanadium	20		12/13/2024	2042
7440-66-6	Zinc	840	*	12/13/2024	2042

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

Comments:

EPA SAMPLE NO.

MBHHQ4

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHHP1

Matrix: SOIL Lab Sample ID: P4932-06

% Solids: 79.9 Date Received: 11/20/2024

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	8500		12/13/2024	2045
7440-36-0	Antimony	9.2		12/13/2024	2045
7440-38-2	Arsenic	26		12/13/2024	2045
7440-39-3	Barium	710		12/13/2024	2045
7440-41-7	Beryllium	1.0		12/13/2024	2045
7440-43-9	Cadmium	3.3		12/13/2024	2045
7440-70-2	Calcium	19000		12/13/2024	2045
7440-47-3	Chromium	30		12/13/2024	2045
7440-48-4	Cobalt	12		12/13/2024	2045
7440-50-8	Copper	1400		12/13/2024	2045
7439-89-6	Iron	26000		12/13/2024	2045
7439-92-1	Lead	1500		12/13/2024	2045
7439-95-4	Magnesium	2800		12/13/2024	2045
7439-96-5	Manganese	1100		12/13/2024	2045
7440-02-0	Nickel	29		12/13/2024	2045
7440-09-7	Potassium	770		12/13/2024	2045
7782-49-2	Selenium	0.95	J	12/13/2024	2045
7440-22-4	Silver	1.1	U	12/13/2024	2045
7440-23-5	Sodium	450	J	12/13/2024	2045
7440-28-0	Thallium	1.8	J	12/13/2024	2045
7440-62-2	Vanadium	28		12/13/2024	2045
7440-66-6	Zinc	1300	*	12/13/2024	2045

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

Comments:

EPA SAMPLE NO.

MBHHQ5

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHHP1

Matrix: SOIL Lab Sample ID: P4932-07

% Solids: 82.6 Date Received: 11/20/2024

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	8000		12/13/2024	2049
7440-36-0	Antimony	3.0	J	12/13/2024	2049
7440-38-2	Arsenic	7.8		12/13/2024	2049
7440-39-3	Barium	140		12/13/2024	2049
7440-41-7	Beryllium	0.79		12/13/2024	2049
7440-43-9	Cadmium	0.85		12/13/2024	2049
7440-70-2	Calcium	47000		12/13/2024	2049
7440-47-3	Chromium	15		12/13/2024	2049
7440-48-4	Cobalt	11		12/13/2024	2049
7440-50-8	Copper	31		12/13/2024	2049
7439-89-6	Iron	20000		12/13/2024	2049
7439-92-1	Lead	130		12/13/2024	2049
7439-95-4	Magnesium	14000		12/13/2024	2049
7439-96-5	Manganese	690		12/13/2024	2049
7440-02-0	Nickel	27		12/13/2024	2049
7440-09-7	Potassium	1100		12/13/2024	2049
7782-49-2	Selenium	3.8	U	12/13/2024	2049
7440-22-4	Silver	1.1	U	12/13/2024	2049
7440-23-5	Sodium	340	J	12/13/2024	2049
7440-28-0	Thallium	2.6	J	12/13/2024	2049
7440-62-2	Vanadium	19		12/13/2024	2049
7440-66-6	Zinc	150	*	12/13/2024	2049

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

Comments:

EPA SAMPLE NO.

MBHHQ6

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHHP1

Matrix: SOIL Lab Sample ID: P4932-08

% Solids: 84.2 Date Received: 11/20/2024

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	8200		12/13/2024	2053
7440-36-0	Antimony	4.9	J	12/13/2024	2053
7440-38-2	Arsenic	16		12/13/2024	2053
7440-39-3	Barium	240		12/13/2024	2053
7440-41-7	Beryllium	0.75		12/13/2024	2053
7440-43-9	Cadmium	1.4		12/13/2024	2053
7440-70-2	Calcium	9600		12/13/2024	2053
7440-47-3	Chromium	17		12/13/2024	2053
7440-48-4	Cobalt	11		12/13/2024	2053
7440-50-8	Copper	120		12/13/2024	2053
7439-89-6	Iron	23000		12/13/2024	2053
7439-92-1	Lead	360		12/13/2024	2053
7439-95-4	Magnesium	2100		12/13/2024	2053
7439-96-5	Manganese	1600		12/13/2024	2053
7440-02-0	Nickel	20		12/13/2024	2053
7440-09-7	Potassium	440	J	12/13/2024	2053
7782-49-2	Selenium	1.4	J	12/13/2024	2053
7440-22-4	Silver	0.99	U	12/13/2024	2053
7440-23-5	Sodium	250	J	12/13/2024	2053
7440-28-0	Thallium	2.4	J	12/13/2024	2053
7440-62-2	Vanadium	20		12/13/2024	2053
7440-66-6	Zinc	390	*	12/13/2024	2053

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

Comments:

EPA SAMPLE NO.

MBHHQ7

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHHP1

Matrix: SOIL Lab Sample ID: P4932-09

% Solids: 88.9 Date Received: 11/20/2024

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	7400		12/13/2024	2057
7440-36-0	Antimony	3.5	J	12/13/2024	2057
7440-38-2	Arsenic	9.8		12/13/2024	2057
7440-39-3	Barium	99		12/13/2024	2057
7440-41-7	Beryllium	0.62		12/13/2024	2057
7440-43-9	Cadmium	0.72		12/13/2024	2057
7440-70-2	Calcium	4000		12/13/2024	2057
7440-47-3	Chromium	12		12/13/2024	2057
7440-48-4	Cobalt	9.9		12/13/2024	2057
7440-50-8	Copper	39		12/13/2024	2057
7439-89-6	Iron	17000		12/13/2024	2057
7439-92-1	Lead	120		12/13/2024	2057
7439-95-4	Magnesium	2000		12/13/2024	2057
7439-96-5	Manganese	1100		12/13/2024	2057
7440-02-0	Nickel	18		12/13/2024	2057
7440-09-7	Potassium	280	J	12/13/2024	2057
7782-49-2	Selenium	1.1	J	12/13/2024	2057
7440-22-4	Silver	1.0	U	12/13/2024	2057
7440-23-5	Sodium	220	J	12/13/2024	2057
7440-28-0	Thallium	1.2	J	12/13/2024	2057
7440-62-2	Vanadium	17		12/13/2024	2057
7440-66-6	Zinc	130	*	12/13/2024	2057

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

Comments:

EPA SAMPLE NO.

MBHHQ8

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHHP1

Matrix: SOIL Lab Sample ID: P4932-10

% Solids: 77.8 Date Received: 11/20/2024

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	7300		12/13/2024	2100
7440-36-0	Antimony	2.6	J	12/13/2024	2100
7440-38-2	Arsenic	5.3		12/13/2024	2100
7440-39-3	Barium	70		12/13/2024	2100
7440-41-7	Beryllium	0.57	J	12/13/2024	2100
7440-43-9	Cadmium	0.49	J	12/13/2024	2100
7440-70-2	Calcium	9600		12/13/2024	2100
7440-47-3	Chromium	12		12/13/2024	2100
7440-48-4	Cobalt	8.4		12/13/2024	2100
7440-50-8	Copper	23		12/13/2024	2100
7439-89-6	Iron	16000		12/13/2024	2100
7439-92-1	Lead	94		12/13/2024	2100
7439-95-4	Magnesium	4100		12/13/2024	2100
7439-96-5	Manganese	520		12/13/2024	2100
7440-02-0	Nickel	16		12/13/2024	2100
7440-09-7	Potassium	250	J	12/13/2024	2100
7782-49-2	Selenium	4.1	U	12/13/2024	2100
7440-22-4	Silver	1.2	U	12/13/2024	2100
7440-23-5	Sodium	360	J	12/13/2024	2100
7440-28-0	Thallium	1.1	J	12/13/2024	2100
7440-62-2	Vanadium	18		12/13/2024	2100
7440-66-6	Zinc	100	*	12/13/2024	2100

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

Comments:

EPA SAMPLE NO.

MBHHQ9

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHHP1

Matrix: SOIL Lab Sample ID: P4932-11

% Solids: 85.6 Date Received: 11/20/2024

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	8500		12/13/2024	2104
7440-36-0	Antimony	2.9	J	12/13/2024	2104
7440-38-2	Arsenic	7.1		12/13/2024	2104
7440-39-3	Barium	52		12/13/2024	2104
7440-41-7	Beryllium	0.62		12/13/2024	2104
7440-43-9	Cadmium	0.36	J	12/13/2024	2104
7440-70-2	Calcium	3300		12/13/2024	2104
7440-47-3	Chromium	10		12/13/2024	2104
7440-48-4	Cobalt	8.8		12/13/2024	2104
7440-50-8	Copper	14		12/13/2024	2104
7439-89-6	Iron	16000		12/13/2024	2104
7439-92-1	Lead	60		12/13/2024	2104
7439-95-4	Magnesium	2200		12/13/2024	2104
7439-96-5	Manganese	870		12/13/2024	2104
7440-02-0	Nickel	14		12/13/2024	2104
7440-09-7	Potassium	96	J	12/13/2024	2104
7782-49-2	Selenium	1.2	J	12/13/2024	2104
7440-22-4	Silver	1.0	U	12/13/2024	2104
7440-23-5	Sodium	290	J	12/13/2024	2104
7440-28-0	Thallium	2.6	U	12/13/2024	2104
7440-62-2	Vanadium	18		12/13/2024	2104
7440-66-6	Zinc	35	*	12/13/2024	2104

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

Comments:

EPA SAMPLE NO.

MBHHR0

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHHP1

Matrix: SOIL Lab Sample ID: P4932-22

% Solids: 74.8 Date Received: 11/20/2024

Analytical Method: ICP_AES

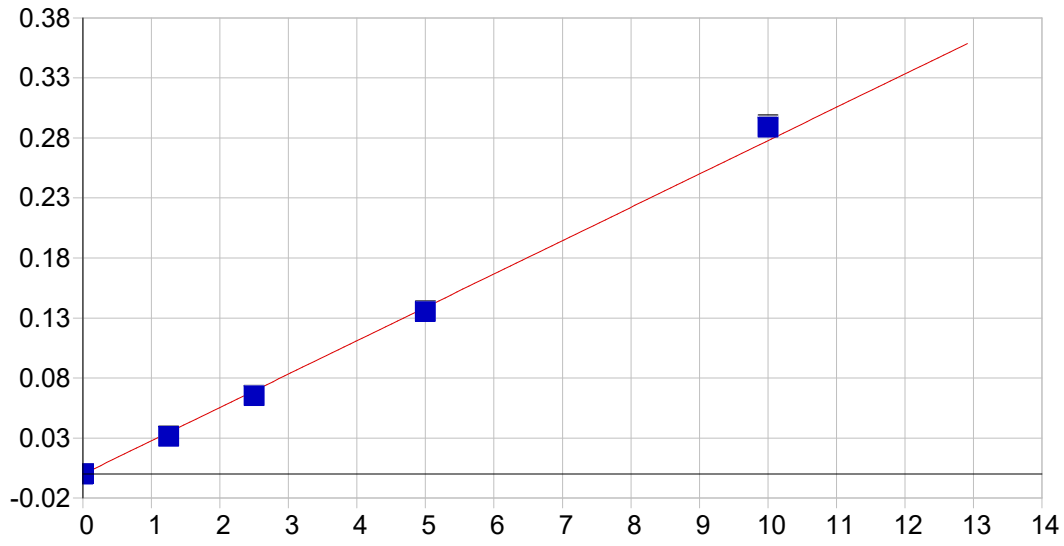
Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	8300		12/13/2024	2211
7440-36-0	Antimony	4.6	J	12/13/2024	2211
7440-38-2	Arsenic	17		12/13/2024	2211
7440-39-3	Barium	120		12/13/2024	2211
7440-41-7	Beryllium	0.74		12/13/2024	2211
7440-43-9	Cadmium	1.7		12/13/2024	2211
7440-70-2	Calcium	6200		12/13/2024	2211
7440-47-3	Chromium	16		12/13/2024	2211
7440-48-4	Cobalt	14		12/13/2024	2211
7440-50-8	Copper	42		12/13/2024	2211
7439-89-6	Iron	22000		12/13/2024	2211
7439-92-1	Lead	180		12/13/2024	2211
7439-95-4	Magnesium	2400		12/13/2024	2211
7439-96-5	Manganese	2000		12/13/2024	2211
7440-02-0	Nickel	27		12/13/2024	2211
7440-09-7	Potassium	940		12/13/2024	2211
7782-49-2	Selenium	2.3	J	12/13/2024	2211
7440-22-4	Silver	1.1	U	12/13/2024	2211
7440-23-5	Sodium	260	J	12/13/2024	2211
7440-28-0	Thallium	2.6	J	12/13/2024	2211
7440-62-2	Vanadium	22		12/13/2024	2211
7440-66-6	Zinc	240	*	12/13/2024	2211

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

Comments:

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



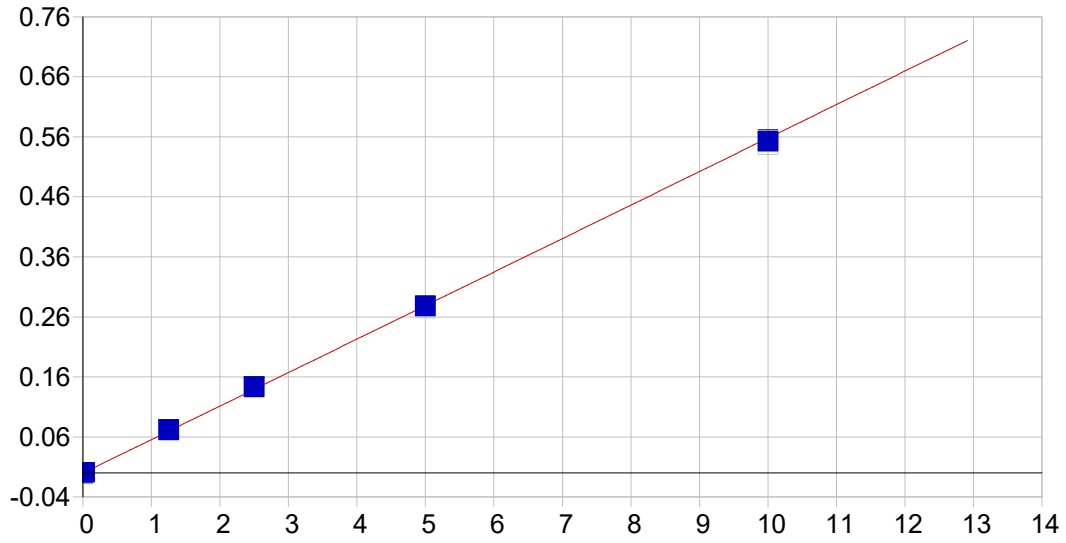
As 189.042 {479}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000161	Re-Slope:	1.000000
A1 (Gain):	0.027796	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998969	Status:	OK.
Std Error of Est:	0.000021		
Predicted MDL:	0.006988		
Predicted MQL:	0.023295		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00016	.000	1
S1	.01000	.01152	.002	15.2	.00016	.000	1
S2	1.2500	1.1325	-.118	-9.40	.03146	.000	1
S3	2.5000	2.3500	-.150	-6.00	.06545	.000	1
S4	5.0000	4.8721	-.128	-2.56	.13585	.000	1
S5	10.000	10.394	.394	3.94	.28991	.001	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



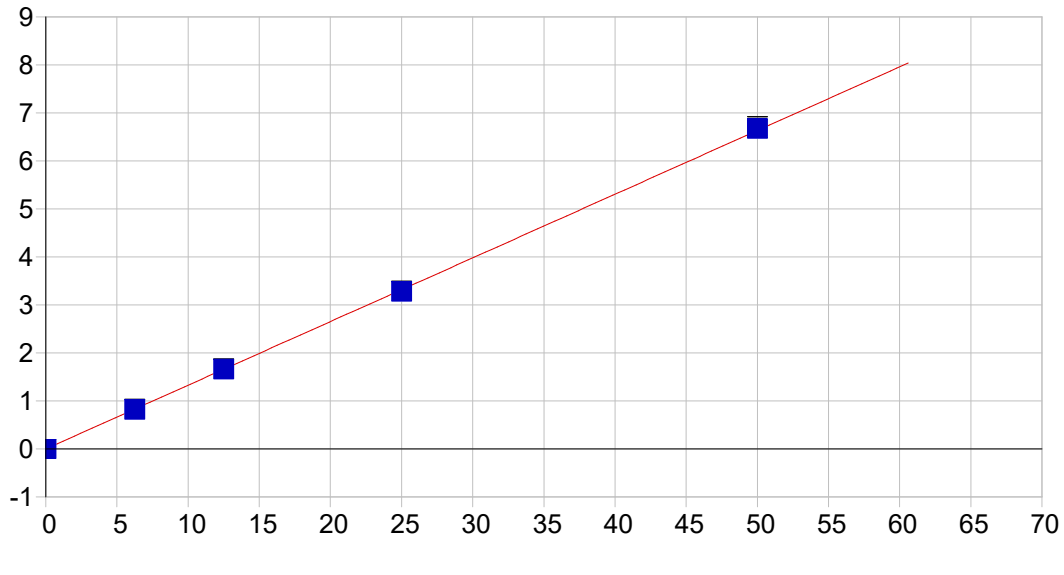
Tl 190.856 {477}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000374	Re-Slope:	1.000000
A1 (Gain):	0.055843	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999854	Status:	OK.
Std Error of Est:	0.000025		
Predicted MDL:	0.003872		
Predicted MQL:	0.012908		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00037	.000	1
S1	.02500	.02969	.005	18.8	.00125	.000	1
S2	1.2500	1.2907	.041	3.26	.07095	.000	1
S3	2.5000	2.5726	.073	2.90	.14178	.000	1
S4	5.0000	4.9805	-.020	-.390	.27474	.000	1
S5	10.000	9.9016	-.098	-.984	.54653	.002	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



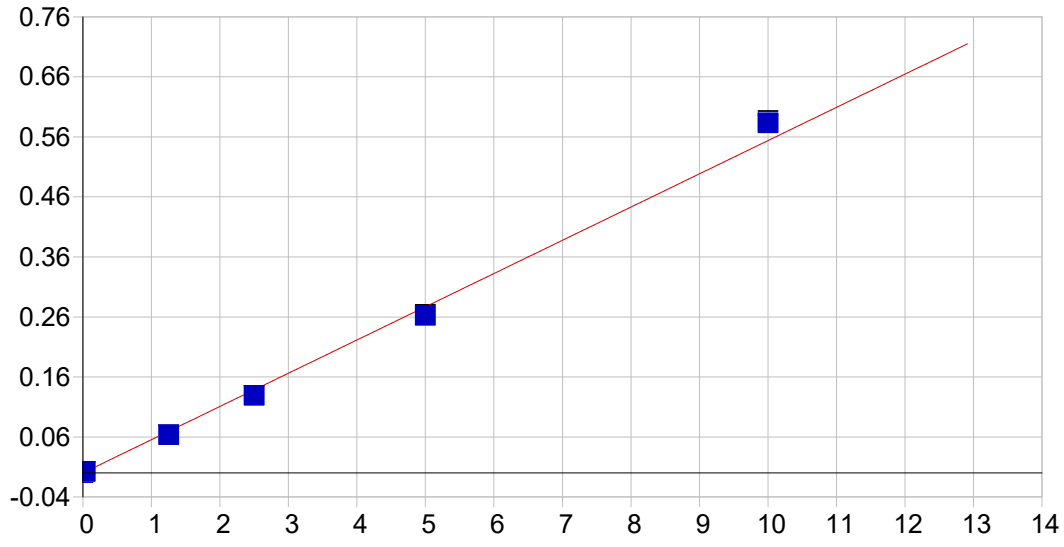
Pb 220.353 {453}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000205	Re-Slope:	1.000000
A1 (Gain):	0.132662	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999970	Status:	OK.
Std Error of Est:	0.000039		
Predicted MDL:	0.003468		
Predicted MQL:	0.011559		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00020	.000	1
S1	.01000	.00809	-.002	-19.1	.00087	.001	1
S2	6.2500	6.1953	-.055	-.875	.82147	.002	1
S3	12.500	12.529	.029	.233	1.6615	.004	1
S4	25.000	24.728	-.272	-1.09	3.2794	.008	1
S5	50.000	50.299	.299	.598	6.6709	.042	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



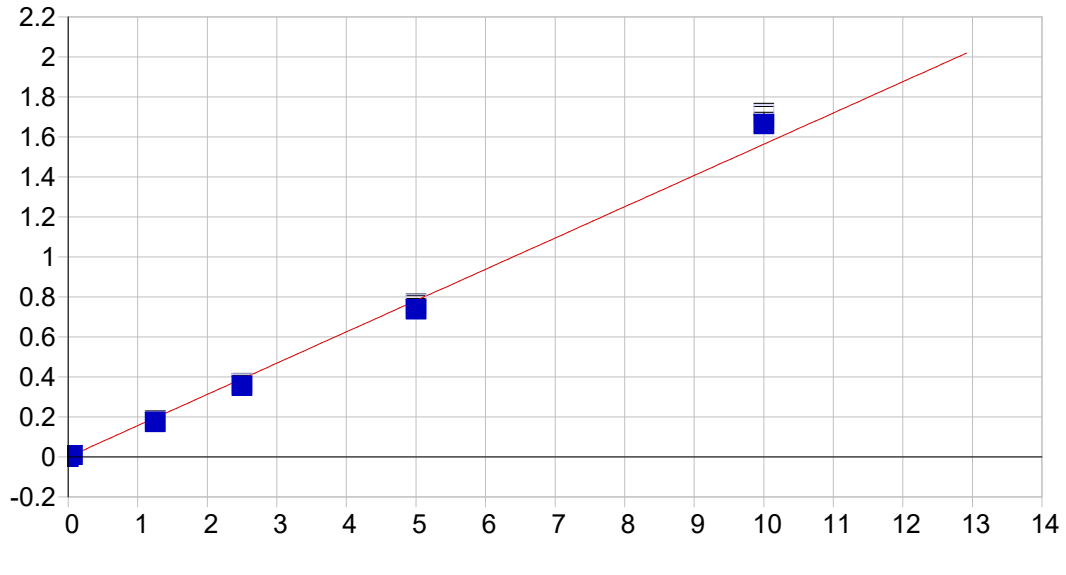
Se 196.090 {472}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000014	Re-Slope:	1.000000
A1 (Gain):	0.055397	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998329	Status:	OK.
Std Error of Est:	0.000100		
Predicted MDL:	0.006982		
Predicted MQL:	0.023275		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00001	.000	1
S1	.03500	.03747	.002	7.07	.00206	.000	1
S2	1.2500	1.1478	-.102	-8.18	.06344	.000	1
S3	2.5000	2.3287	-.171	-6.85	.12873	.000	1
S4	5.0000	4.7365	-.263	-5.27	.26185	.001	1
S5	10.000	10.534	.534	5.34	.58251	.004	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



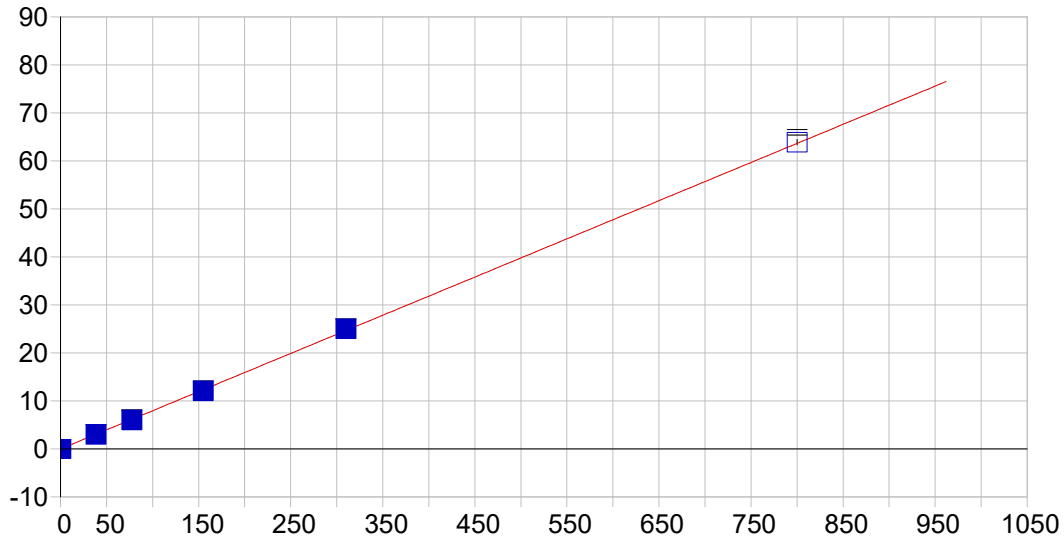
Sb 206.833 {463}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000028	Re-Slope:	1.000000
A1 (Gain):	0.156333	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.997678	Status:	OK.
Std Error of Est:	0.000452		
Predicted MDL:	0.002909		
Predicted MQL:	0.009698		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00003	.000	1
S1	.06000	.05748	-.003	-4.20	.00896	.000	1
S2	1.2500	1.1126	-.137	-11.0	.17967	.000	1
S3	2.5000	2.2741	-.226	-9.04	.36703	.000	1
S4	5.0000	4.7206	-.279	-5.59	.76102	.004	1
S5	10.000	10.645	.645	6.45	1.7103	.009	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



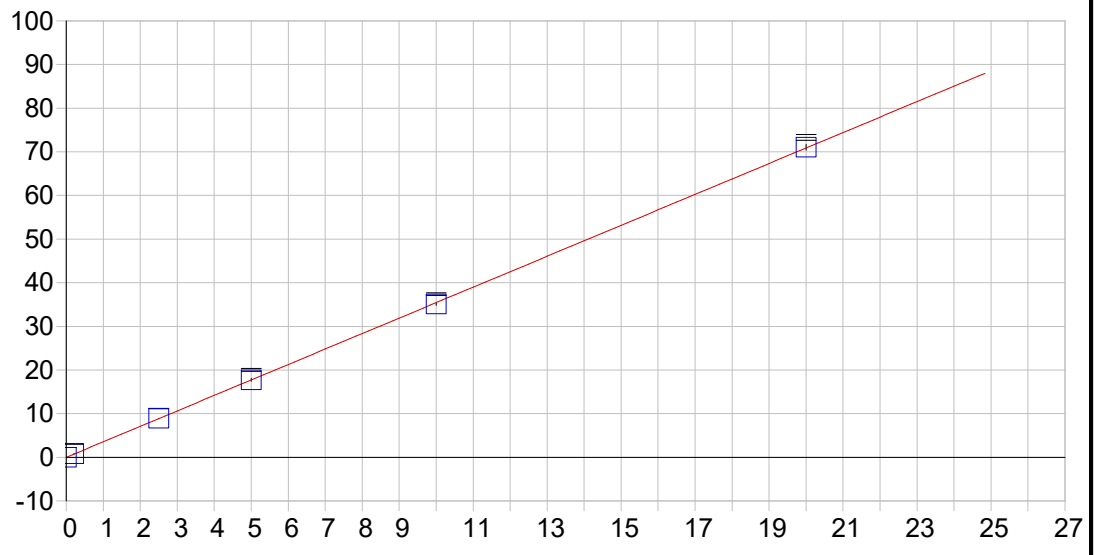
Al 396.152 { 85}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.002282	Re-Slope:	1.000000
A1 (Gain):	0.079563	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999908	Status:	OK.
Std Error of Est:	0.000672		
Predicted MDL:	0.012315		
Predicted MQL:	0.041051		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00228	.000	1
S1	.20000	.20101	.001	.507	.01374	.000	1
S2	38.750	37.524	-1.23	-3.16	2.9870	.005	1
S3	77.500	75.131	-2.37	-3.06	5.9828	.116	1
S4	155.00	151.50	-3.50	-2.26	12.066	.020	1
S5	310.00	314.06	4.06	1.31	25.015	.070	1
S6	800.00	803.04	3.04	.381	63.890	.560	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



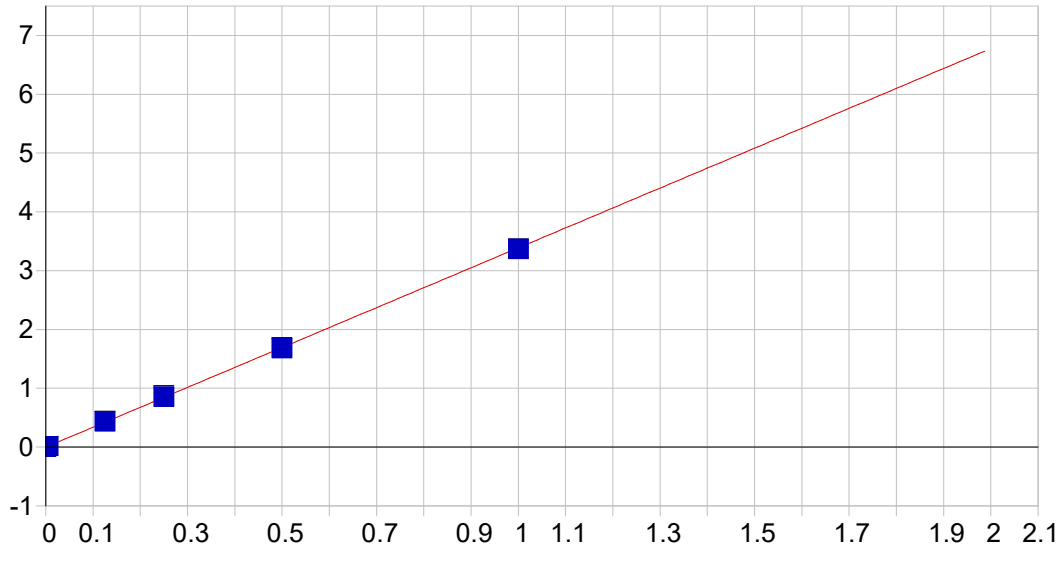
Ba 493.409 { 68}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.002067	Re-Slope:	1.000000
A1 (Gain):	3.543739	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999940	Status:	OK.
Std Error of Est:	0.004133		
Predicted MDL:	0.000645		
Predicted MQL:	0.002149		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00003	-.000	.000	-.00216	.003	1
S1	.20000	.22667	.027	13.3	.80120	.003	1
S2	2.5000	2.5123	.012	.492	8.9009	.024	1
S3	5.0000	5.0069	.007	.138	17.741	.342	1
S4	10.000	9.9100	-.090	-.900	35.116	.279	1
S5	20.000	20.044	.044	.221	71.029	.686	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



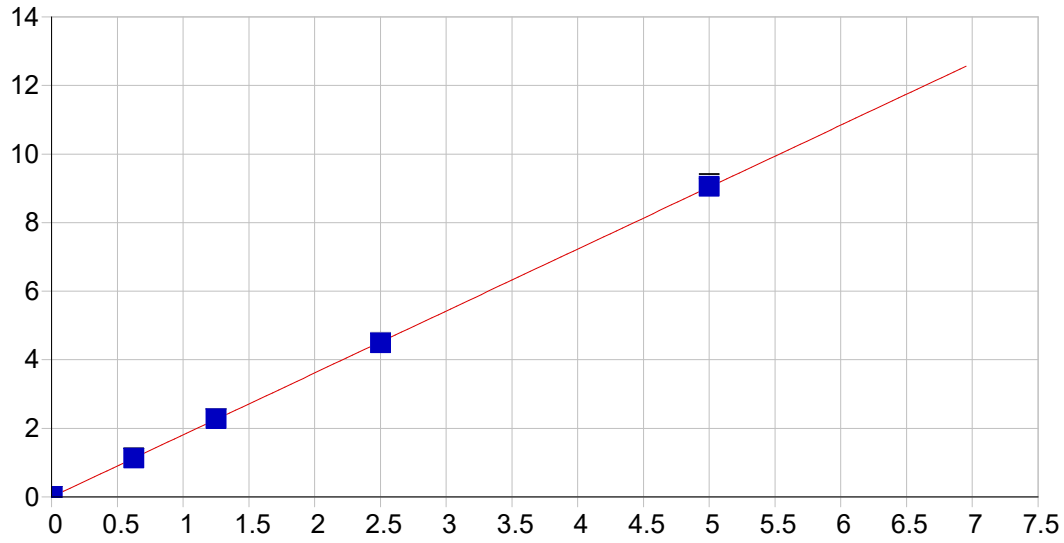
Be 234.861 {144}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000953	Re-Slope:	1.000000
A1 (Gain):	3.389273	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999861	Status:	OK.
Std Error of Est:	0.000211		
Predicted MDL:	0.000119		
Predicted MQL:	0.000396		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00096	.000	1
S1	.00500	.00610	.001	22.1	.01972	.000	1
S2	.12500	.12961	.005	3.69	.43766	.001	1
S3	.25000	.25349	.003	1.39	.85682	.013	1
S4	.50000	.49664	-.003	-.671	1.6796	.007	1
S5	1.0000	.99415	-.006	-.585	3.3630	.003	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



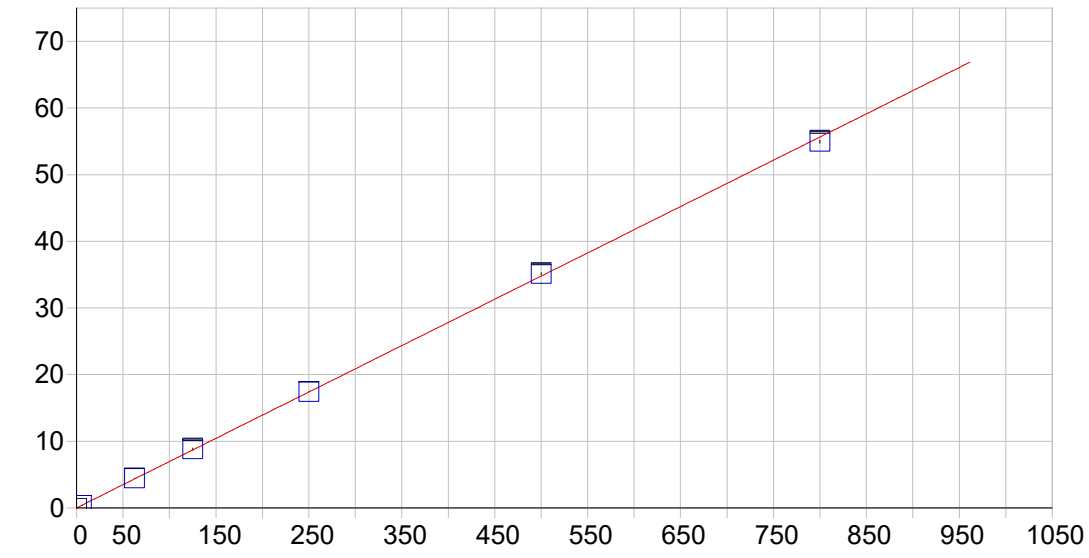
Cd 214.438 {457}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000353	Re-Slope:	1.000000
A1 (Gain):	1.807009	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999986	Status:	OK.
Std Error of Est:	0.000081		
Predicted MDL:	0.000154		
Predicted MQL:	0.000512		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00035	.000	1
S1	.00500	.00556	.001	11.1	.01040	.000	1
S2	.62500	.62390	-.001	-.176	1.1305	.003	1
S3	1.2500	1.2592	.009	.739	2.2812	.004	1
S4	2.5000	2.4825	-.017	-.698	4.4972	.009	1
S5	5.0000	5.0088	.009	.175	9.0729	.064	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



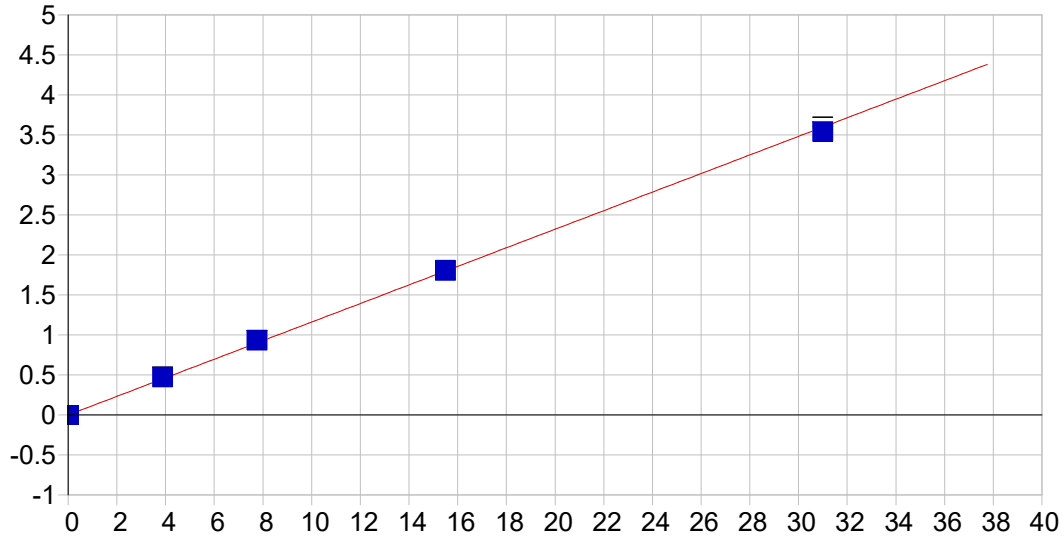
Ca 373.690 { 90}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004286	Re-Slope:	1.000000
A1 (Gain):	0.069559	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999897	Status:	OK.
Std Error of Est:	0.003490		
Predicted MDL:	0.012468		
Predicted MQL:	0.041559		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00097	-.001	.000	.00422	.000	1
S1	5.0000	5.7804	.780	15.6	.40637	.001	1
S2	62.500	63.920	1.42	2.27	4.4505	.013	1
S3	125.00	126.73	1.73	1.39	8.8199	.167	1
S4	250.00	250.57	.568	.227	17.434	.028	1
S5	500.00	505.39	5.39	1.08	35.159	.141	1
S6	800.00	790.11	-9.89	-1.24	54.964	.229	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



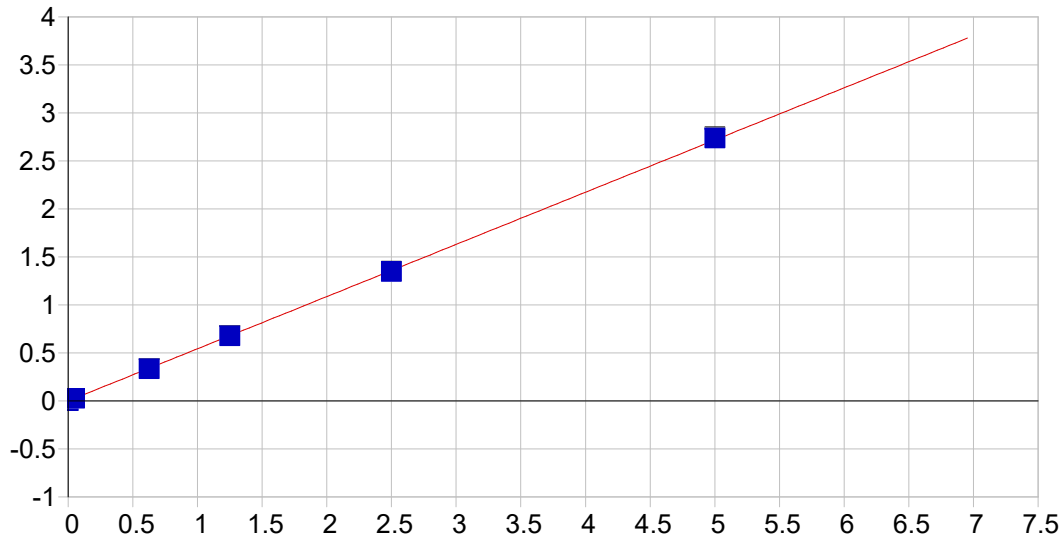
Cr 267.716 {126}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000202	Re-Slope:	1.000000
A1 (Gain):	0.116066	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999752	Status:	OK.
Std Error of Est:	0.000076		
Predicted MDL:	0.001160		
Predicted MQL:	0.003867		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00020	.000	1
S1	.01000	.01256	.003	25.6	.00126	.000	1
S2	3.8750	4.0724	.197	5.10	.47298	.001	1
S3	7.7500	8.0253	.275	3.55	.93227	.001	1
S4	15.500	15.535	.035	.224	1.8049	.002	1
S5	31.000	30.490	-.510	-1.65	3.5427	.058	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



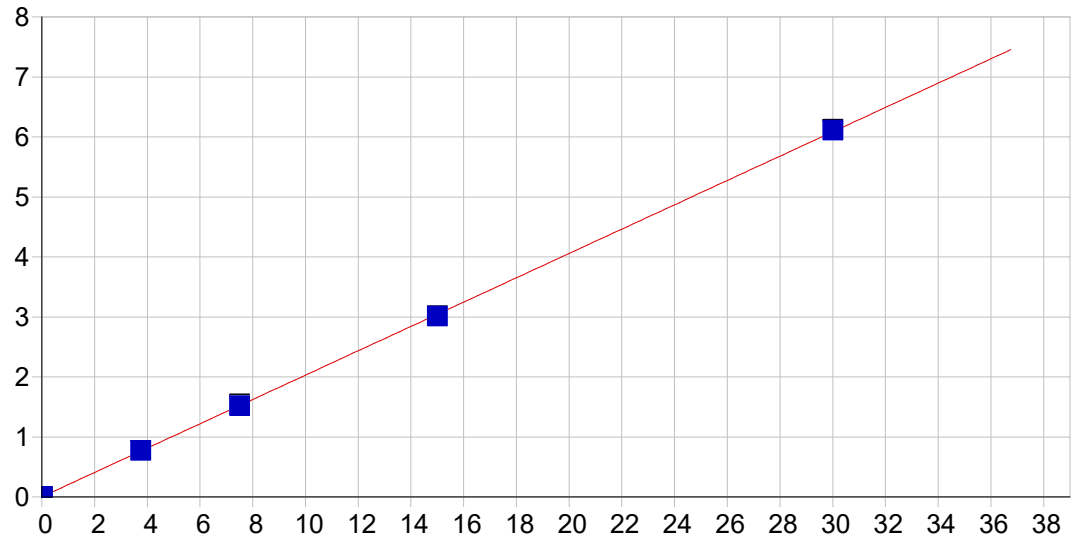
Co 228.616 {448}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000318	Re-Slope:	1.000000
A1 (Gain):	0.543535	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999963	Status:	OK.
Std Error of Est:	0.000125		
Predicted MDL:	0.000588		
Predicted MQL:	0.001961		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00032	.000	1
S1	.05000	.05235	.002	4.70	.02823	.000	1
S2	.62500	.61444	-.011	-1.69	.33407	.001	1
S3	1.2500	1.2469	-.003	-.252	.67822	.001	1
S4	2.5000	2.4782	-.022	-.872	1.3483	.002	1
S5	5.0000	5.0332	.033	.663	2.7387	.013	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



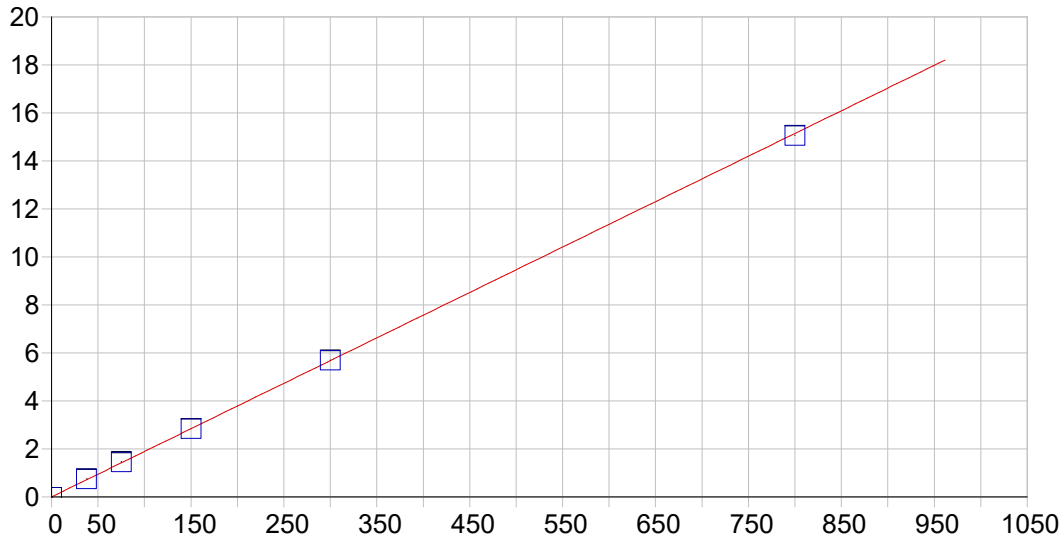
Cu 324.754 {104}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001848	Re-Slope:	1.000000
A1 (Gain):	0.202778	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999974	Status:	OK.
Std Error of Est:	0.000068		
Predicted MDL:	0.002816		
Predicted MQL:	0.009388		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00185	.000	1
S1	.02500	.02738	.002	9.52	.00740	.000	1
S2	3.7500	3.7957	.046	1.22	.77105	.002	1
S3	7.5000	7.4822	-.018	-.238	1.5181	.027	1
S4	15.000	14.844	-.156	-1.04	3.0100	.001	1
S5	30.000	30.125	.125	.418	6.1067	.018	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



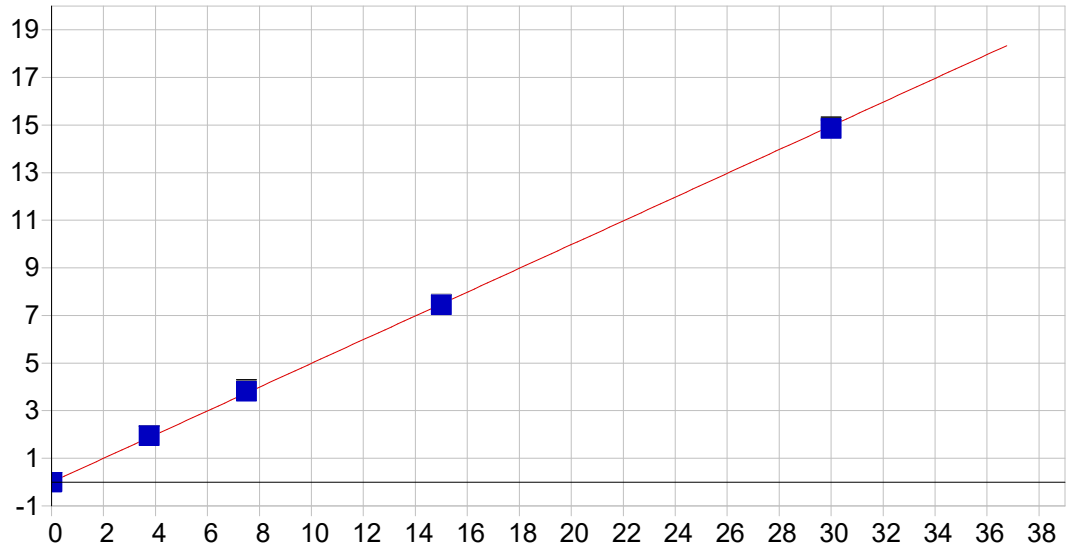
Fe 259.837 {130}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000261	Re-Slope:	1.000000
A1 (Gain):	0.018929	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999948	Status:	OK.
Std Error of Est:	0.000085		
Predicted MDL:	0.013284		
Predicted MQL:	0.044282		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00002	-.000	.000	.00026	.000	1
S1	.10000	.10966	.010	9.66	.00234	.000	1
S2	37.500	39.149	1.65	4.40	.74130	.001	1
S3	75.000	76.780	1.78	2.37	1.4536	.031	1
S4	150.00	150.27	.271	.181	2.8447	.008	1
S5	300.00	300.75	.751	.250	5.6930	.009	1
S6	800.00	795.54	-4.46	-.558	15.059	.009	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



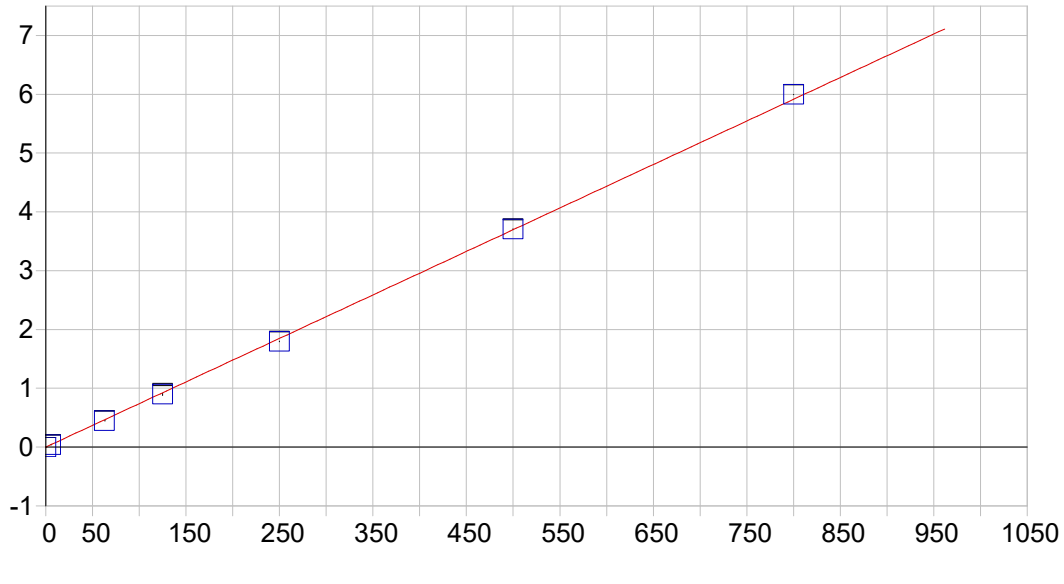
Mn 257.610 {131}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000165	Re-Slope:	1.000000
A1 (Gain):	0.498854	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999905	Status:	OK.
Std Error of Est:	0.000245		
Predicted MDL:	0.000589		
Predicted MQL:	0.001963		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00017	.000	1
S1	.01500	.01901	.004	26.7	.00933	.000	1
S2	3.7500	3.8885	.138	3.69	1.9399	.007	1
S3	7.5000	7.6411	.141	1.88	3.8122	.072	1
S4	15.000	14.933	-.067	-.448	7.4502	.020	1
S5	30.000	29.784	-.216	-.721	14.860	.063	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



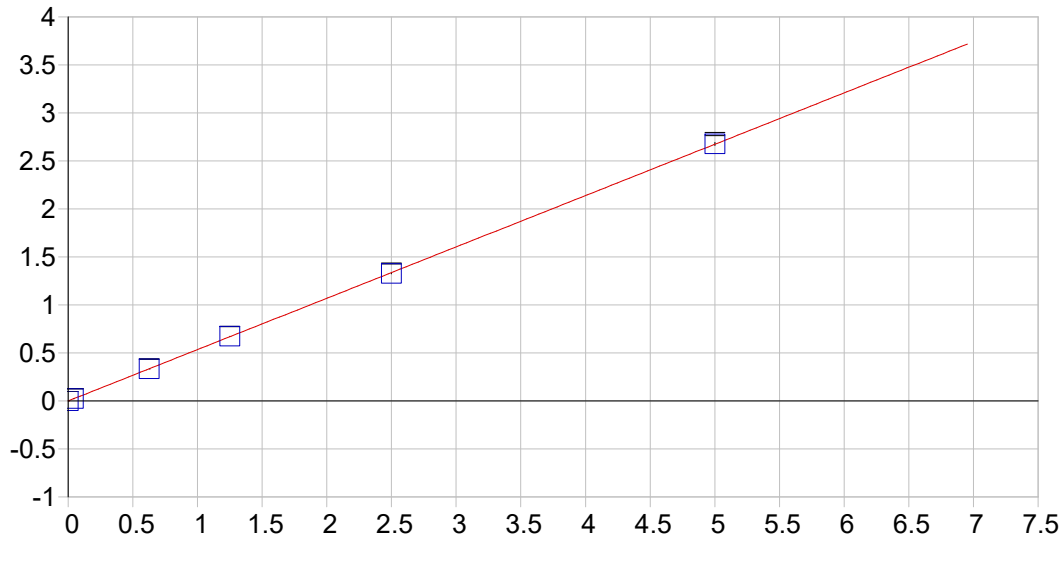
Mg 279.079 {121}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000095	Re-Slope:	1.000000
A1 (Gain):	0.007394	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999839	Status:	OK.
Std Error of Est:	0.000464		
Predicted MDL:	0.040506		
Predicted MQL:	0.135019		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00006	-.000	.000	-.00010	.000	1
S1	5.0000	5.4224	.422	8.45	.04000	.001	1
S2	62.500	60.584	-1.92	-3.07	.44787	.001	1
S3	125.00	121.26	-3.74	-2.99	.89650	.021	1
S4	250.00	242.94	-7.06	-2.82	1.7962	.005	1
S5	500.00	501.21	1.21	.242	3.7059	.008	1
S6	800.00	811.09	11.1	1.39	5.9972	.003	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



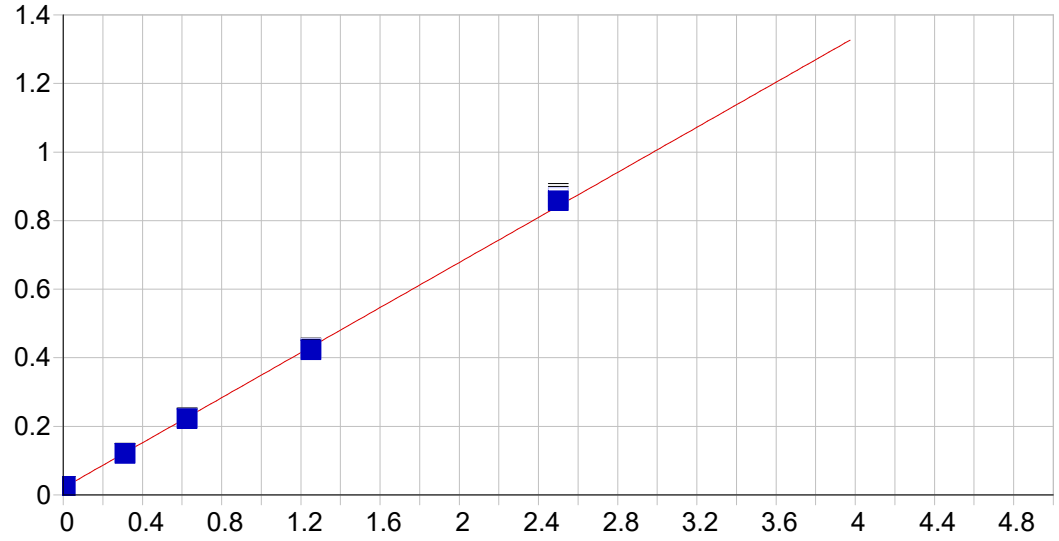
Ni 231.604 {446}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000049	Re-Slope:	1.000000
A1 (Gain):	0.534681	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999952	Status:	OK.
Std Error of Est:	0.000124		
Predicted MDL:	0.000636		
Predicted MQL:	0.002122		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00005	.000	1
S1	.04000	.04548	.005	13.7	.02437	.000	1
S2	.62500	.62266	-.002	-.374	.33298	.001	1
S3	1.2500	1.2568	.007	.548	.67206	.000	1
S4	2.5000	2.4842	-.016	-.633	1.3283	.004	1
S5	5.0000	5.0058	.006	.117	2.6766	.016	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



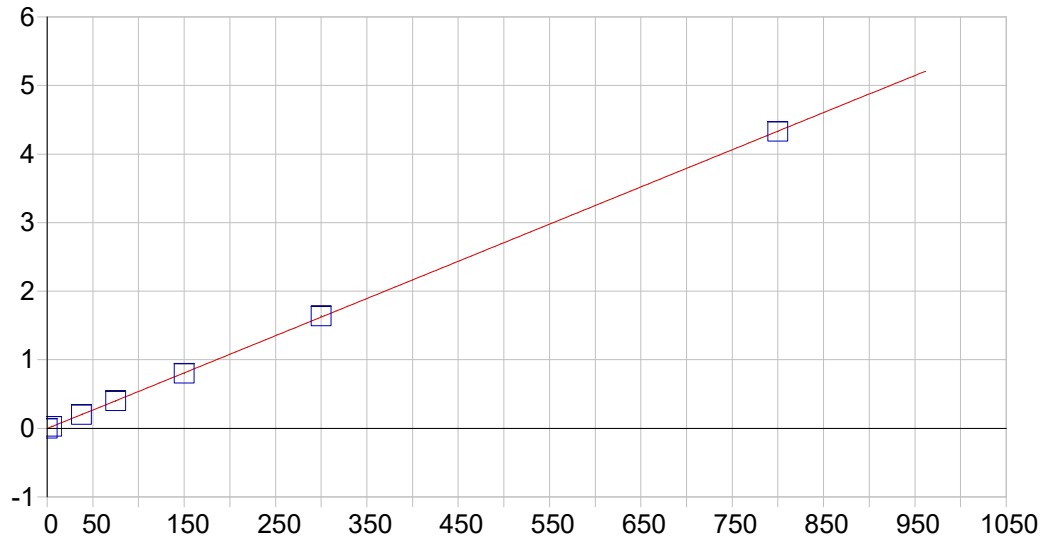
Ag 328.068 {103}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.020745	Re-Slope:	1.000000
A1 (Gain):	0.328605	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999754	Status:	OK.
Std Error of Est:	0.000062		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.02074	.000	1
S1	.01000	.01176	.002	17.6	.02460	.000	1
S2	.31250	.30310	-.009	-3.01	.12145	.000	1
S3	.62500	.61165	-.013	-2.14	.22395	.001	1
S4	1.2500	1.2233	-.027	-2.14	.42714	.001	1
S5	2.5000	2.5478	.048	1.91	.86680	.013	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



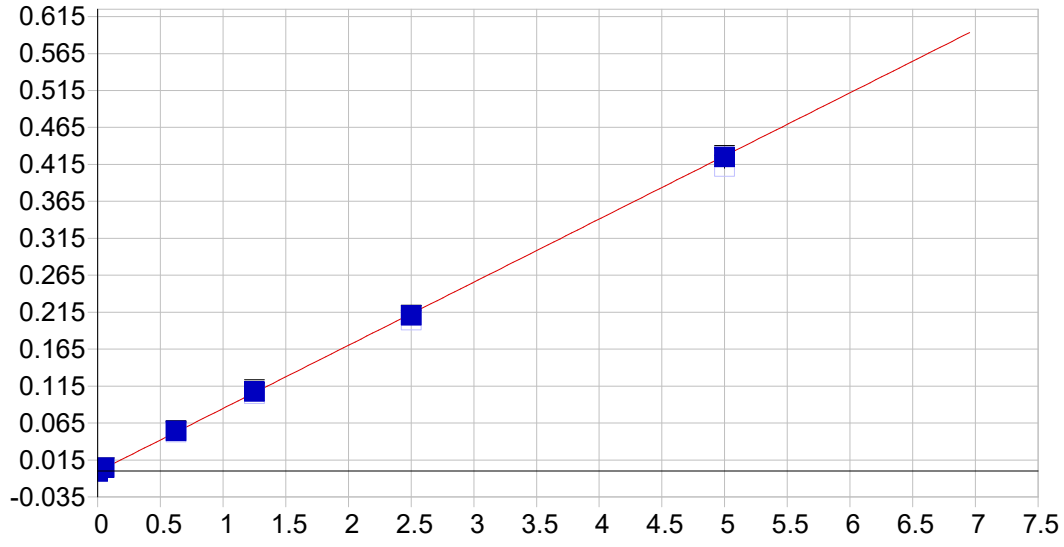
Na 818.326 { 41}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.003534	Re-Slope:	1.000000
A1 (Gain):	0.005421	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999929	Status:	OK.
Std Error of Est:	0.000199		
Predicted MDL:	0.342793		
Predicted MQL:	1.142644		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00081	-.001	.000	-.00354	.001	1
S1	5.0000	5.8608	.861	17.2	.02824	.002	1
S2	37.500	37.567	.067	.178	.20011	.001	1
S3	75.000	74.461	-.539	-.718	.40011	.004	1
S4	150.00	148.27	-1.73	-1.15	.80020	.002	1
S5	300.00	302.42	2.42	.807	1.6358	.005	1
S6	800.00	798.92	-1.08	-.135	4.3273	.002	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



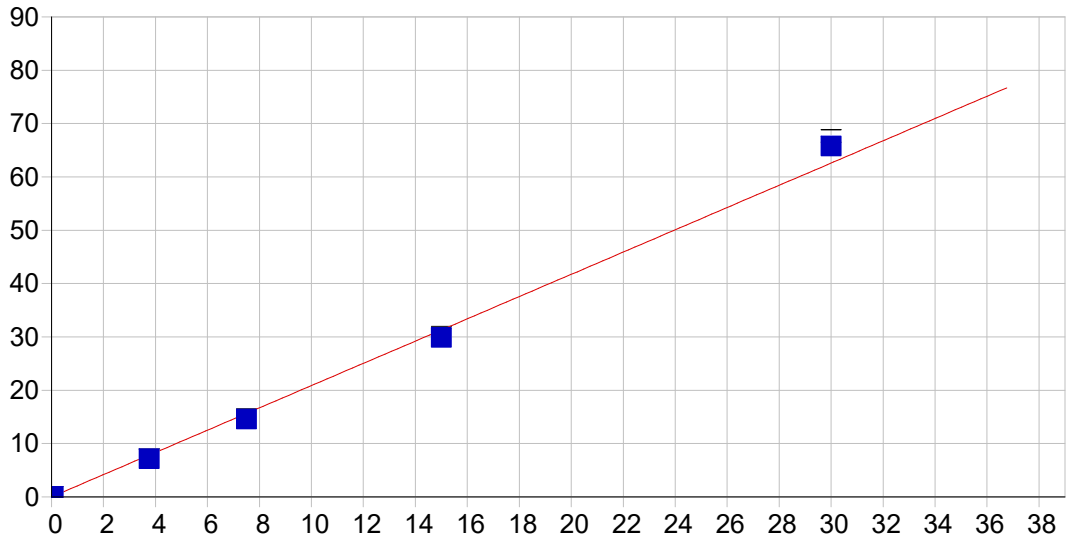
V 292.402 {115}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000726	Re-Slope:	1.000000
A1 (Gain):	0.085442	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999839	Status:	OK.
Std Error of Est:	0.000039		
Predicted MDL:	0.006461		
Predicted MQL:	0.021538		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00073	.000	1
S1	.05000	.05961	.010	19.2	.00436	.000	1
S2	.62500	.64143	.016	2.63	.05244	.001	1
S3	1.2500	1.2672	.017	1.37	.10426	.003	1
S4	2.5000	2.4737	-.026	-1.05	.20407	.000	1
S5	5.0000	4.9828	-.017	-.344	.41188	.002	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



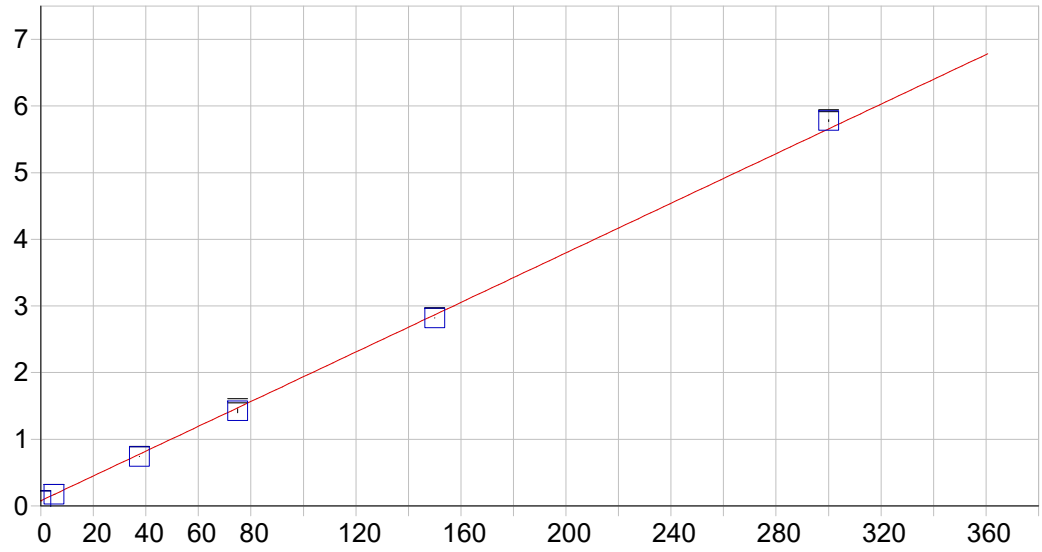
Zn 213.856 {158}

Date of Fit: 12/02/2024 7:50:46 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset):	0.002237	Re-Slope:	1.000000
A1 (Gain):	2.086653	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998429	Status:	OK.
Std Error of Est:	0.008341		
Predicted MDL:	0.000541		
Predicted MQL:	0.001804		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00223	.001	1
S1	.06000	.07144	.011	19.1	.15192	.003	1
S2	3.7500	3.4081	-.342	-9.12	7.1233	.006	1
S3	7.5000	6.9792	-.521	-6.94	14.584	.076	1
S4	15.000	14.324	-.676	-4.51	29.929	.170	1
S5	30.000	31.527	1.53	5.09	65.865	1.17	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



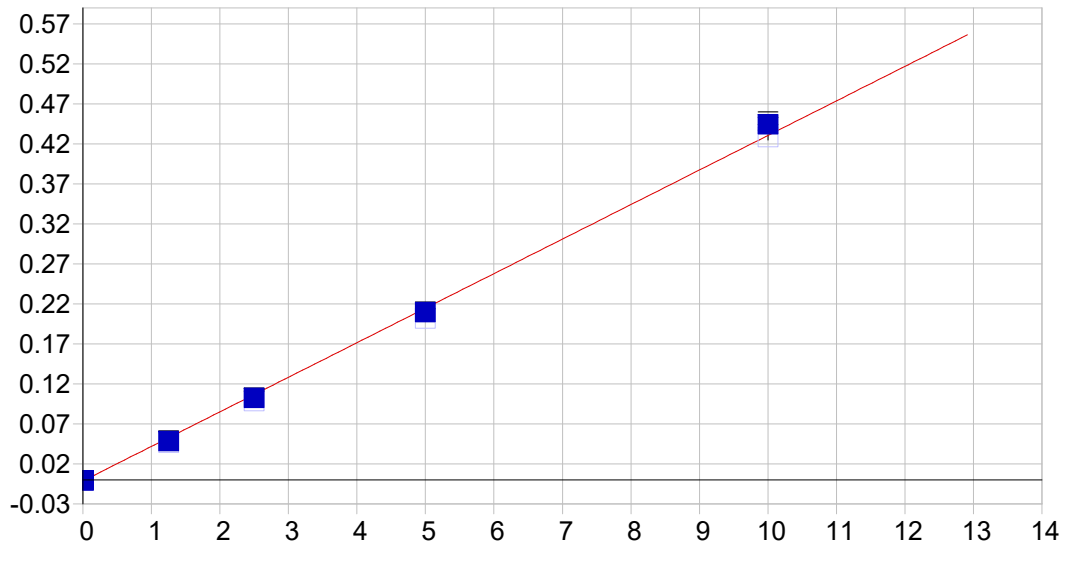
K 769.896 { 44}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.077967	Re-Slope:	1.000000
A1 (Gain):	0.018597	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999688	Status:	OK.
Std Error of Est:	0.000957		
Predicted MDL:	0.125574		
Predicted MQL:	0.418580		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00030	.000	.000	.07797	.002	1
S1	5.0000	5.0753	.075	1.51	.17235	.001	1
S2	37.500	35.696	-1.80	-4.81	.74180	.001	1
S3	75.000	72.597	-2.40	-3.20	1.4280	.031	1
S4	150.00	147.49	-2.51	-1.67	2.8209	.003	1
S5	300.00	306.64	6.64	2.21	5.7804	.013	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



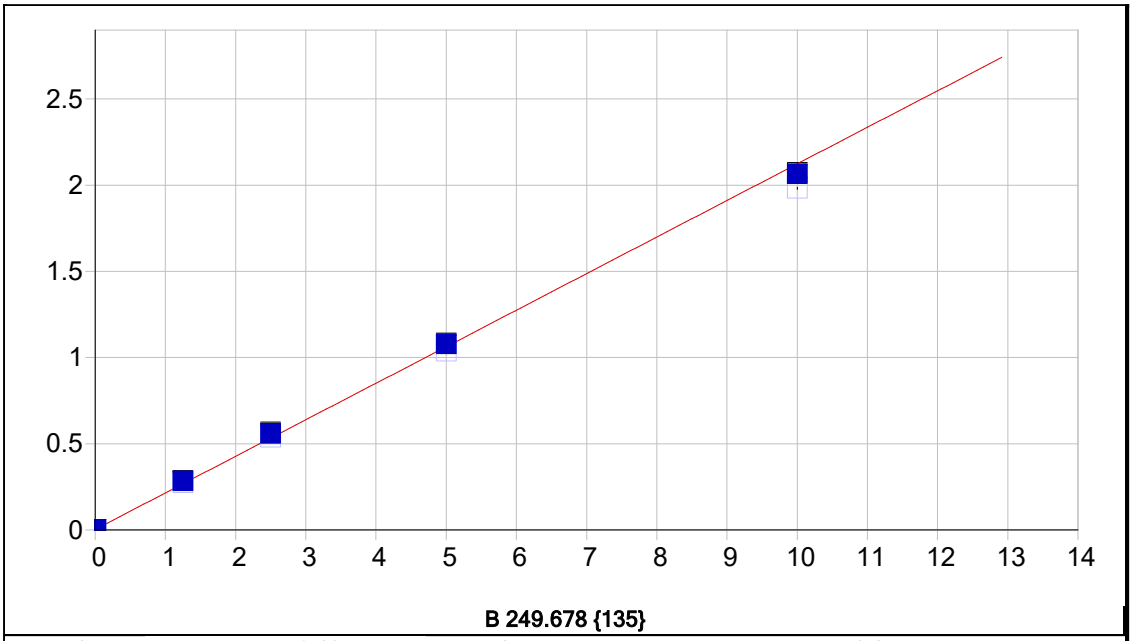
P 177.495 {490}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001290	Re-Slope:	1.000000
A1 (Gain):	0.043186	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999290	Status:	OK.
Std Error of Est:	0.000026		
Predicted MDL:	0.004392		
Predicted MQL:	0.014641		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00129	.000	1
S1	.01000	.00969	-.000	-3.14	-.00088	.000	1
S2	1.2500	1.1497	-.100	-8.02	.04638	.000	1
S3	2.5000	2.3993	-.101	-4.03	.09836	.000	1
S4	5.0000	4.8850	-.115	-2.30	.20174	.000	1
S5	10.000	10.316	.316	3.16	.42835	.003	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



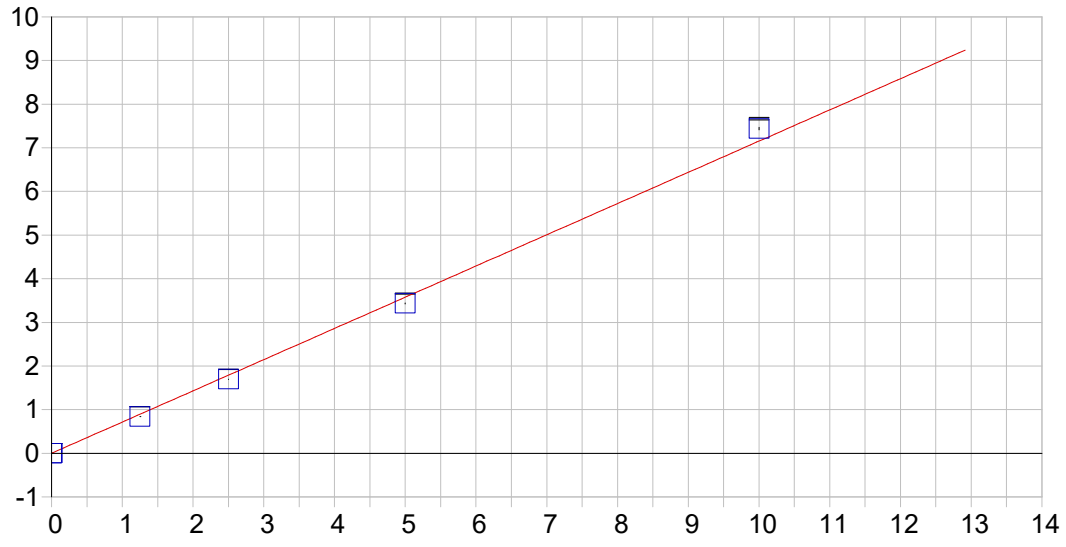
B 249.678 {135}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002406	Re-Slope:	1.000000
A1 (Gain):	0.212099	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999064	Status:	OK.
Std Error of Est:	0.000148		
Predicted MDL:	0.001949		
Predicted MQL:	0.006498		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00241	.000	1
S1	.01000	-.00150	-.012	-115.	.00207	.000	1
S2	1.2500	1.3286	.079	6.29	.27349	.002	1
S3	2.5000	2.6220	.122	4.88	.53714	.009	1
S4	5.0000	5.0770	.077	1.54	1.0364	.005	1
S5	10.000	9.7342	-.266	-2.66	1.9814	.006	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



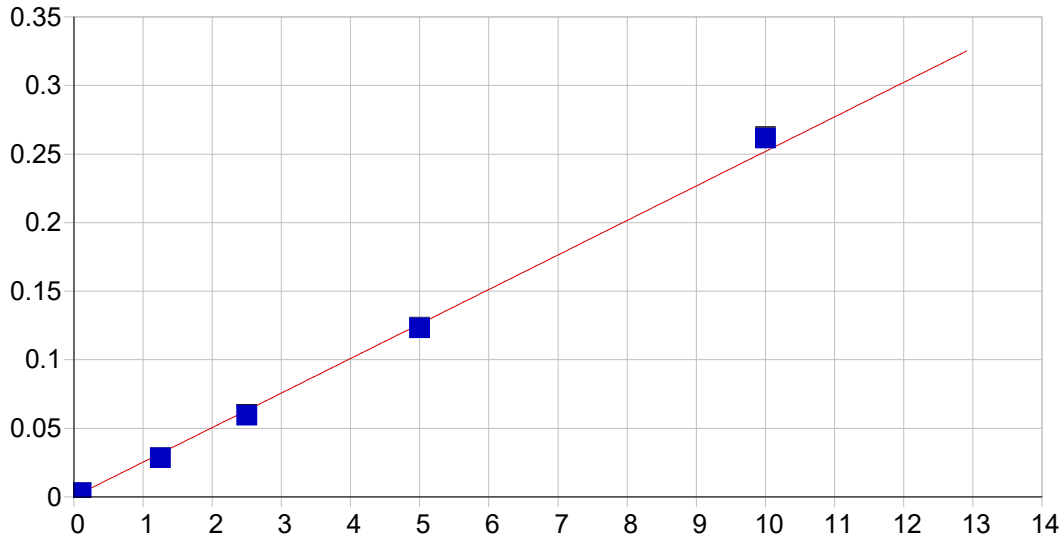
Mo 202.030 {467}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000179	Re-Slope:	1.000000
A1 (Gain):	0.715331	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999065	Status:	OK.
Std Error of Est:	0.000519		
Predicted MDL:	0.000575		
Predicted MQL:	0.001915		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00018	.000	1
S1	.01000	.01068	.001	6.77	.00746	.000	1
S2	1.2500	1.1751	-.075	-5.99	.84039	.002	1
S3	2.5000	2.3718	-.128	-5.13	1.6964	.001	1
S4	5.0000	4.8010	-.199	-3.98	3.4342	.012	1
S5	10.000	10.401	.401	4.01	7.4403	.033	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



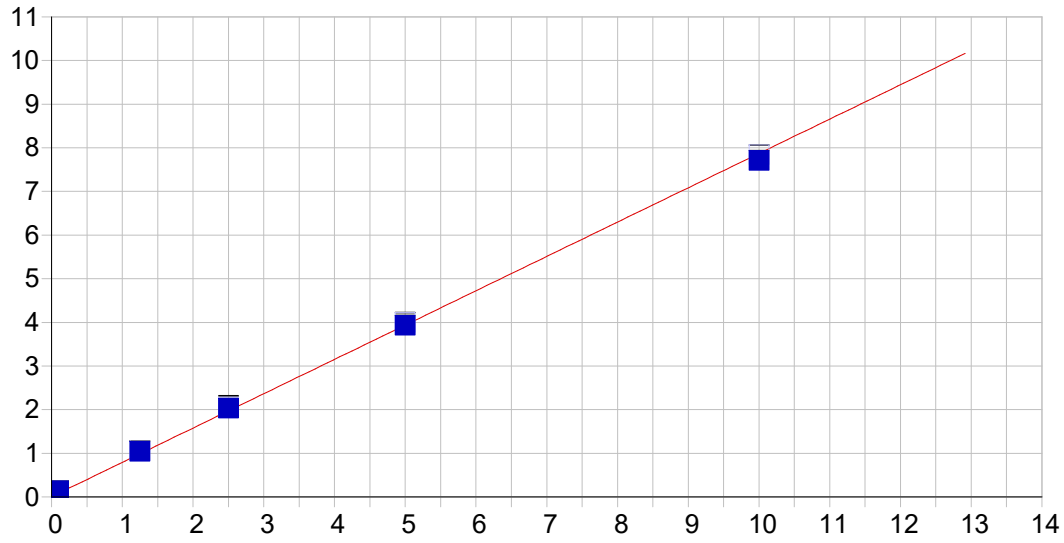
S 182.034 {485}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000222	Re-Slope:	1.000000
A1 (Gain):	0.025168	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998963	Status:	OK.
Std Error of Est:	0.000061		
Predicted MDL:	0.007247		
Predicted MQL:	0.024157		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00022	.000	1
S1	.10000	.10747	.007	7.47	.00293	.000	1
S2	1.2500	1.1203	-.130	-10.4	.02842	.000	1
S3	2.5000	2.3591	-.141	-5.64	.05960	.000	1
S4	5.0000	4.8829	-.117	-2.34	.12312	.001	1
S5	10.000	10.380	.380	3.80	.26149	.001	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



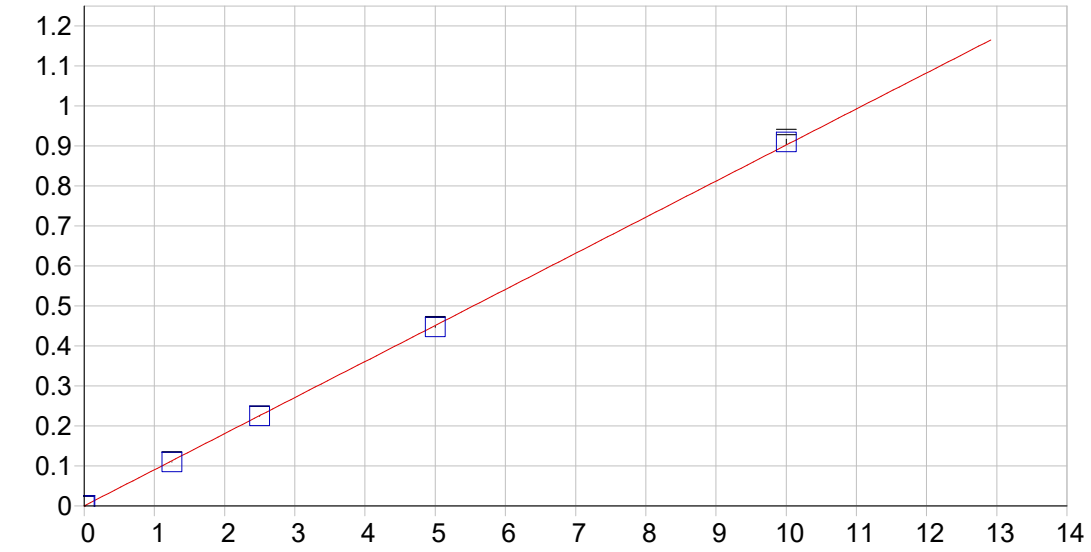
Si 251.611 {134}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004970	Re-Slope:	1.000000
A1 (Gain):	0.786594	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998483	Status:	OK.
Std Error of Est:	0.002342		
Predicted MDL:	0.000493		
Predicted MQL:	0.001645		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00008	-.000	.000	.00491	.000	1
S1	.10000	.17007	.070	70.1	.13927	.001	1
S2	1.2500	1.3178	.068	5.42	1.0574	.003	1
S3	2.5000	2.5729	.073	2.92	2.0606	.039	1
S4	5.0000	4.9949	-.005	-.102	3.9975	.007	1
S5	10.000	9.7949	-.205	-2.05	7.8368	.006	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



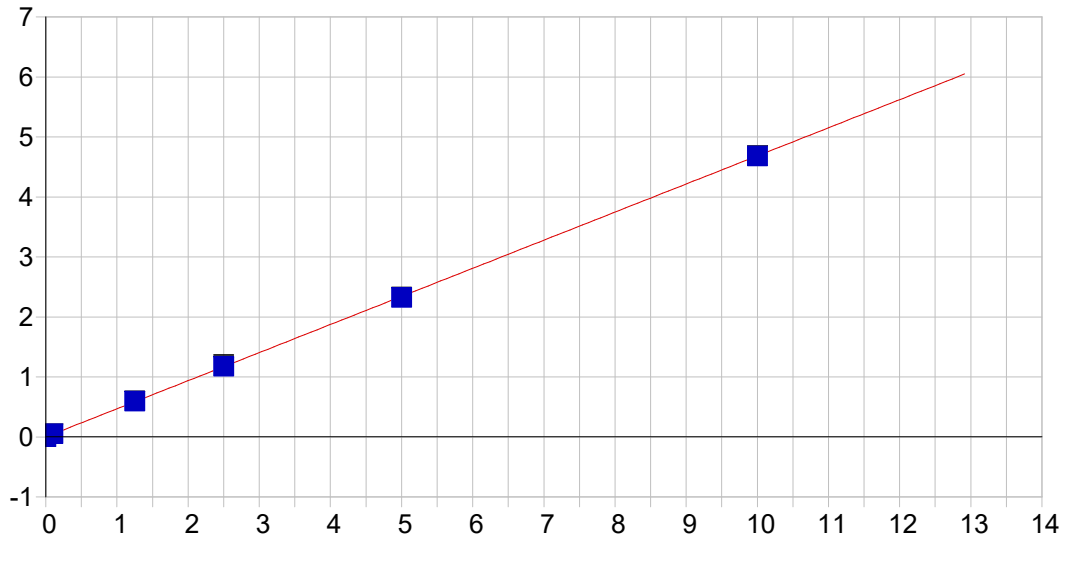
Sn 189.989 {478}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000198	Re-Slope:	1.000000
A1 (Gain):	0.090218	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999936	Status:	OK.
Std Error of Est:	0.000014		
Predicted MDL:	0.002010		
Predicted MQL:	0.006701		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00020	.000	1
S1	.00700	.00858	.002	22.6	.00097	.000	1
S2	1.2500	1.2161	-.034	-2.71	.10991	.000	1
S3	2.5000	2.4867	-.013	-.533	.22454	.001	1
S4	5.0000	4.9606	-.039	-.788	.44773	.001	1
S5	10.000	10.085	.085	.851	.91005	.007	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

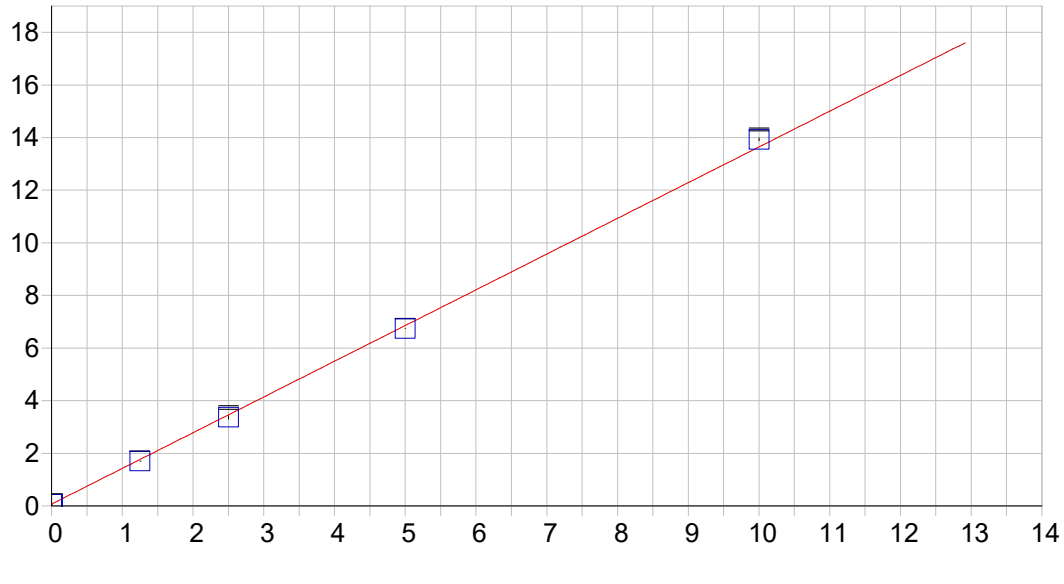


Ti 336.121 {100}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.468376	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999947	Status:	OK.
Std Error of Est:	0.000257		
Predicted MDL:	0.001335		
Predicted MQL:	0.004450		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00001	.001	1
S1	.10000	.11109	.011	11.1	.05201	.001	1
S2	1.2500	1.2713	.021	1.70	.59513	.000	1
S3	2.5000	2.5125	.012	.500	1.1762	.024	1
S4	5.0000	4.9581	-.042	-.837	2.3211	.005	1
S5	10.000	9.9970	-.003	-.030	4.6800	.011	1



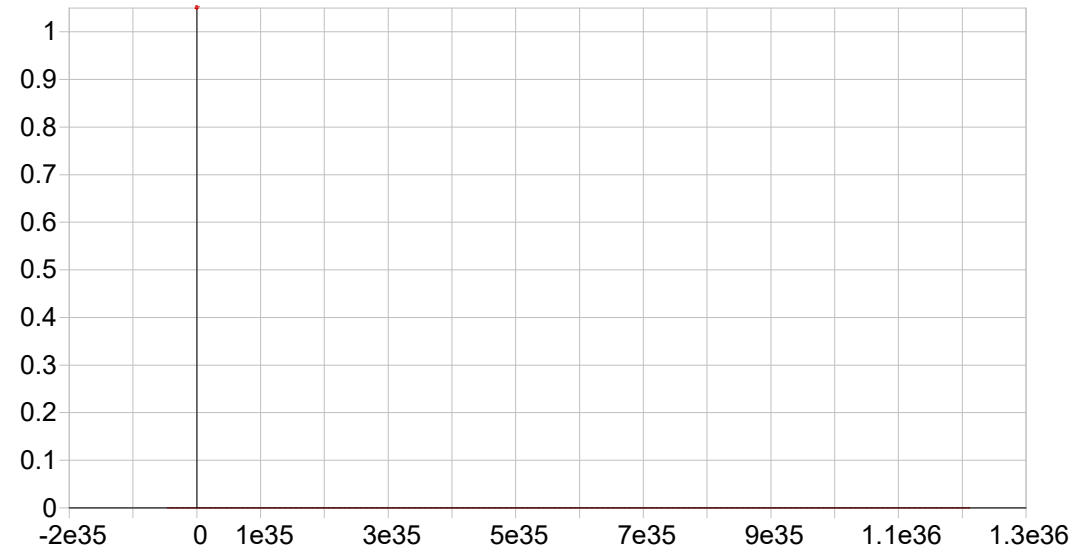
Li 670.784 { 50}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.067757	Re-Slope:	1.000000
A1 (Gain):	1.357791	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999645	Status:	OK.
Std Error of Est:	0.000743		
Predicted MDL:	0.001376		
Predicted MQL:	0.004588		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.06777	.002	1
S5	10.000	10.211	.211	2.11	13.933	.052	1
S4	5.0000	4.9156	-.084	-1.69	6.7421	.008	1
S3	2.5000	2.4273	-.073	-2.91	3.3635	.067	1
S2	1.2500	1.2029	-.047	-3.76	1.7011	.004	1
S1	.01500	.00771	-.007	-48.6	.07823	.002	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

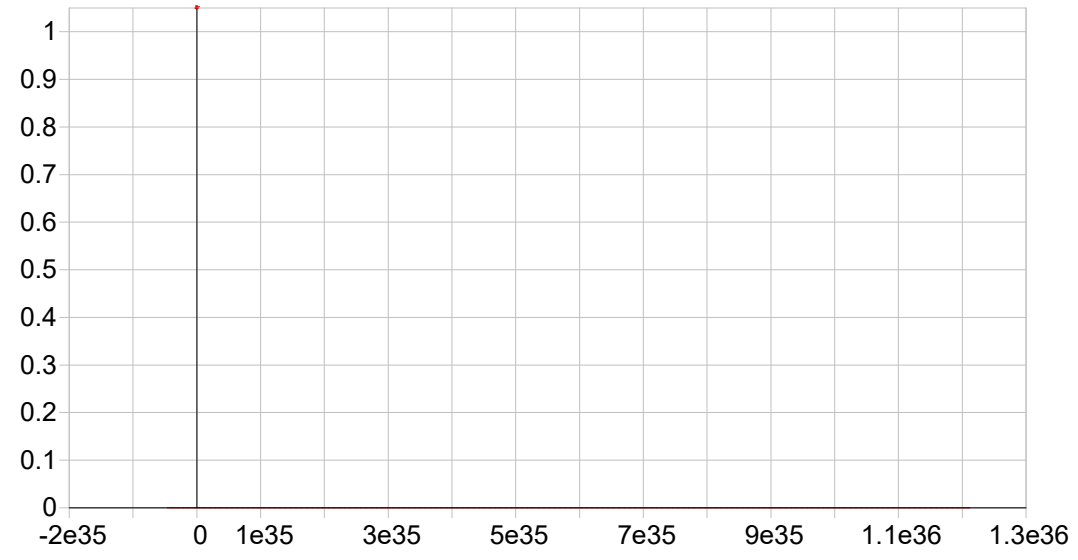


Y 224.306 {450}*

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 360.073 { 94}*

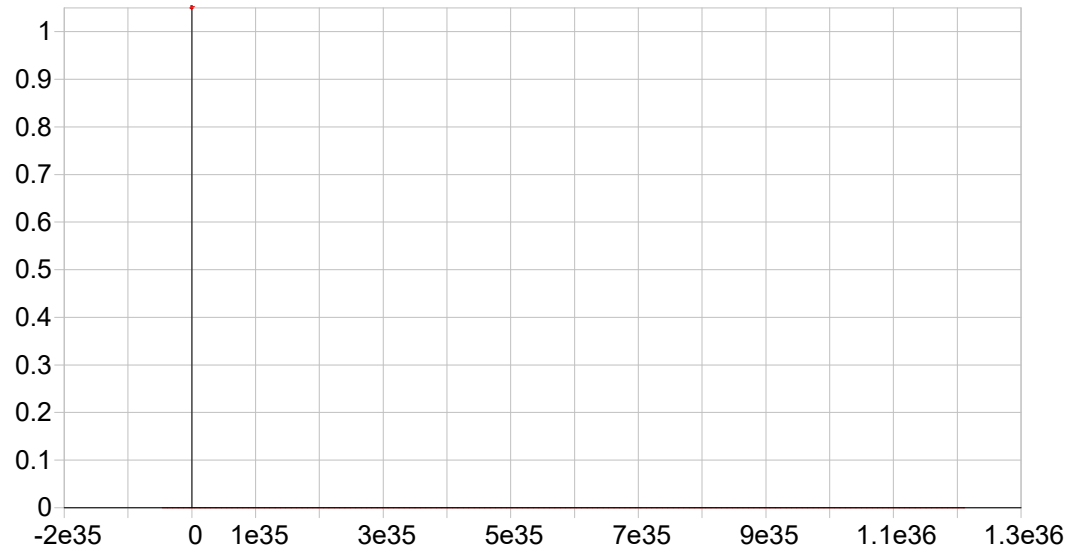
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

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



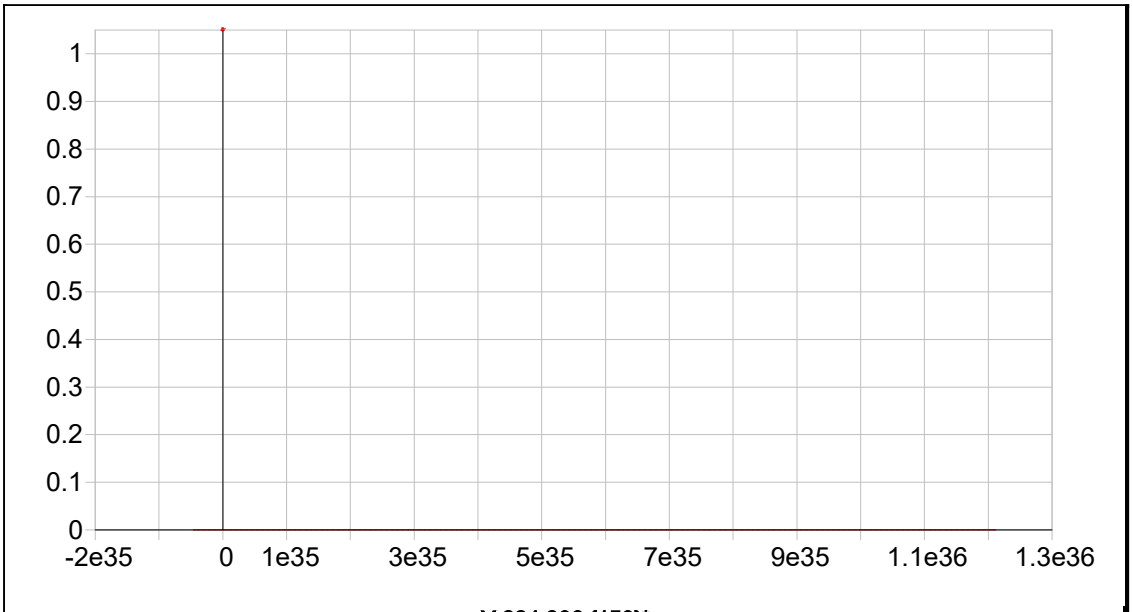
Y 371.030 { 91}*

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

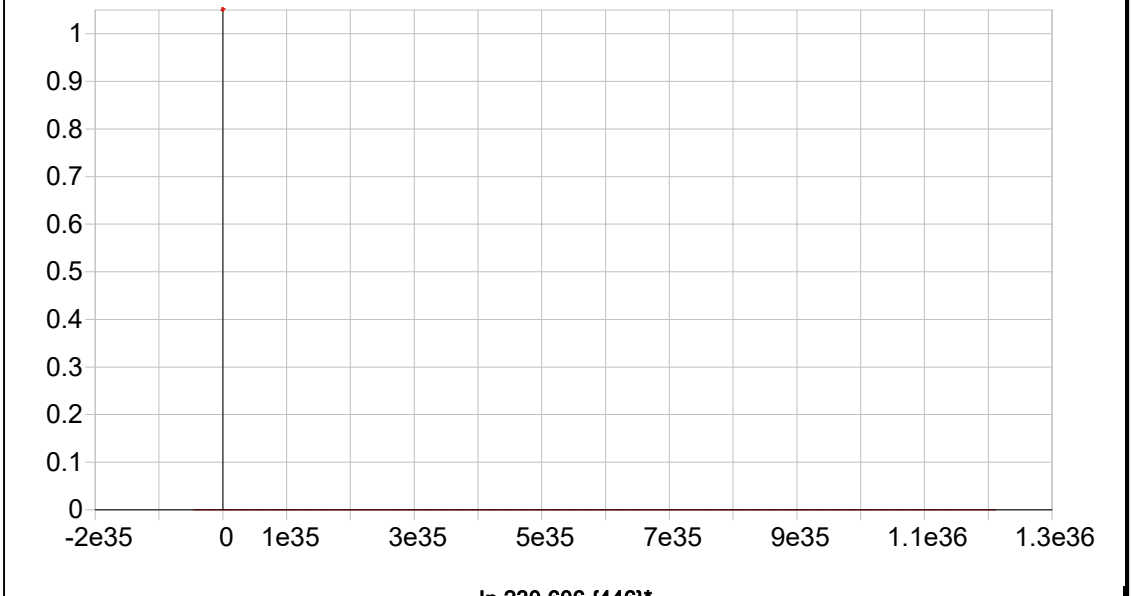
Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



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



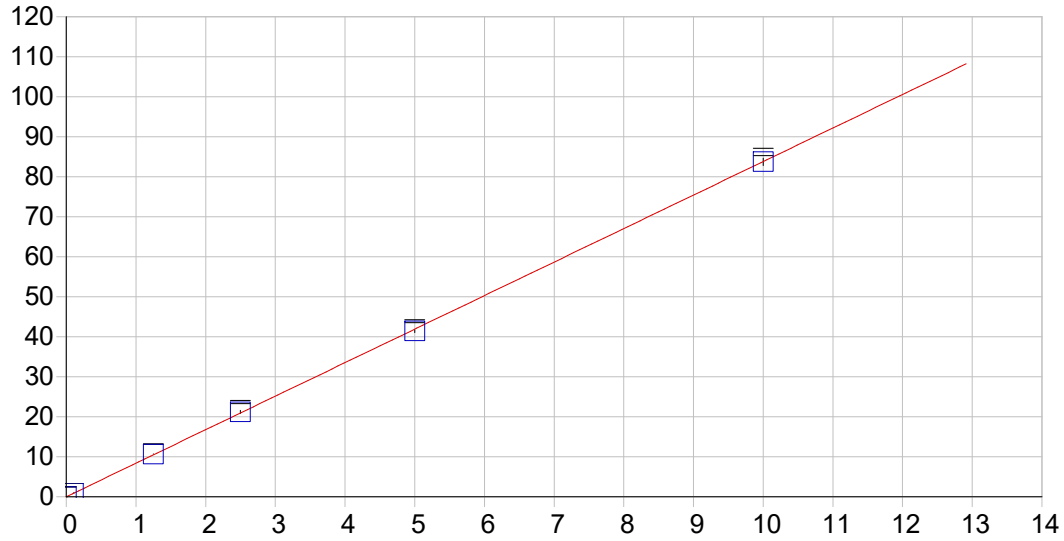
In 230.606 {446}*

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:12/5/2024 8:14:16 PM
Inst Id :P5

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



Sr 407.771 { 83}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000828	Re-Slope:	1.000000
A1 (Gain):	8.380198	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999910	Status:	OK.
Std Error of Est:	0.005990		
Predicted MDL:	0.000107		
Predicted MQL:	0.000356		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00002	-.000	.000	.00070	.000	1
S1	.10000	.11412	.014	14.1	.95718	.002	1
S2	1.2500	1.2727	.023	1.82	10.666	.023	1
S3	2.5000	2.5274	.027	1.10	21.181	.409	1
S4	5.0000	4.9410	-.059	-1.18	41.407	.390	1
S5	10.000	9.9948	-.005	-.052	83.759	.920	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: S0 Acquired: 12/02/2024 15:21:38 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) 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	-.00016	-.00037	-.00020	-.00001	-.00003	-.00228	-.00216	-.00096
Stddev	.00015	.00009	.00033	.00015	.00033	.00008	.00287	.00048
%RSD	93.771	25.132	163.29	1107.4	1278.3	3.3580	132.62	49.995
#1	-.00004	-.00041	.00018	.00015	-.00010	-.00229	-.00168	-.00072
#2	-.00033	-.00027	-.00036	-.00005	.00033	-.00235	-.00524	-.00064
#3	-.00011	-.00045	-.00043	-.00014	-.00031	-.00220	.00043	-.00151

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	.00035	.00422	-.00020	-.00032	.00185	.00026	-.00017	-.00010
Stddev	.00009	.00035	.00009	.00021	.00015	.00015	.00016	.00013
%RSD	26.833	8.3951	46.871	66.498	8.3473	57.696	95.210	135.96
#1	.00044	.00431	-.00012	-.00037	.00170	.00043	-.00003	-.00011
#2	.00025	.00452	-.00031	-.00050	.00184	.00022	-.00034	.00004
#3	.00036	.00383	-.00017	-.00009	.00201	.00014	-.00013	-.00022

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	.00005	.02074	-.00354	-.00073	.00223	.07797	-.00129	.00241
Stddev	.00018	.00028	.00102	.00031	.00136	.00248	.00010	.00016
%RSD	385.24	1.3301	28.901	42.691	60.754	3.1764	7.4758	6.6167
#1	-.00005	.02106	-.00280	-.00062	.00092	.08014	-.00136	.00259
#2	.00025	.02061	-.00311	-.00048	.00363	.07850	-.00118	.00236
#3	-.00006	.02056	-.00471	-.00108	.00215	.07527	-.00133	.00228

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	-.00018	.00022	.00491	.00020	-.00001	.06777	.00070
Stddev	.00043	.00008	.00027	.00005	.00087	.00222	.00008
%RSD	241.38	34.570	5.4780	27.173	15732.	3.2780	11.386
#1	-.00045	.00013	.00505	.00021	-.00063	.06834	.00063
#2	-.00041	.00026	.00508	.00024	-.00037	.06965	.00068
#3	.00032	.00027	.00460	.00014	.00098	.06532	.00078

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: S0 Acquired: 12/02/2024 15:21:38 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) 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	1001.8	29499.	5655.6	877.64	1845.6
Stddev	2.1	191.	55.1	4.23	7.7
%RSD	.20499	.64877	.97376	.48188	.41519
#1	1001.7	29280.	5650.3	872.76	1843.0
#2	1003.9	29635.	5603.4	880.29	1854.2
#3	999.75	29581.	5713.2	879.86	1839.5

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: S1 Acquired: 12/02/2024 15:26:14 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) 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	.00016	.00125	.00087	.00206	.00896	.01374	.80120	.01972
Stddev	.00011	.00014	.00057	.00018	.00026	.00025	.00317	.00035
%RSD	71.840	11.263	65.607	8.9718	2.9308	1.8417	.39580	1.7588
#1	.00003	.00112	.00148	.00192	.00897	.01396	.80171	.02007
#2	.00026	.00123	.00035	.00227	.00921	.01380	.79780	.01938
#3	.00019	.00140	.00078	.00200	.00869	.01346	.80408	.01972

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	.01040	.40637	.00126	.02823	.00740	.00234	.00933	.04000
Stddev	.00014	.00105	.00004	.00040	.00031	.00028	.00045	.00067
%RSD	1.3939	.25885	3.0987	1.4232	4.2578	11.820	4.8295	1.6778
#1	.01023	.40730	.00121	.02778	.00709	.00237	.00956	.03922
#2	.01051	.40657	.00129	.02834	.00739	.00260	.00963	.04039
#3	.01045	.40523	.00127	.02857	.00772	.00205	.00882	.04038

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	.02437	.02460	.02824	.00436	.15192	.17235	-.00088	.00207
Stddev	.00015	.00017	.00196	.00035	.00264	.00103	.00004	.00042
%RSD	.62873	.69980	6.9478	8.1230	1.7397	.59492	4.2953	20.548
#1	.02454	.02472	.03029	.00452	.15382	.17199	-.00085	.00211
#2	.02426	.02467	.02639	.00460	.14890	.17155	-.00092	.00247
#3	.02429	.02440	.02803	.00395	.15304	.17351	-.00087	.00162

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	.00746	.00293	.13927	.00097	.05201	.07823	.95718
Stddev	.00032	.00003	.00076	.00013	.00065	.00168	.00212
%RSD	4.3338	.98860	.54779	13.537	1.2564	2.1516	.22168
#1	.00747	.00289	.13854	.00084	.05194	.07792	.95835
#2	.00713	.00294	.14007	.00111	.05270	.08005	.95846
#3	.00778	.00295	.13921	.00097	.05140	.07673	.95473

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: S1 Acquired: 12/02/2024 15:26:14 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) 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	993.94	29377.	5693.6	871.62	1793.9
Stddev	3.01	97.	15.4	6.69	3.7
%RSD	.30271	.32982	.26978	.76741	.20572
#1	993.18	29297.	5676.0	864.39	1794.3
#2	997.25	29350.	5704.4	877.59	1797.4
#3	991.38	29485.	5700.3	872.88	1790.0

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: S2 Acquired: 12/02/2024 15:30:52 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) 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	.03146	.07095	.82147	.06344	.17967	2.9870	8.9009	.43766
Stddev	.00008	.00046	.00224	.00024	.00042	.0049	.0238	.00116
%RSD	.26302	.65451	.27246	.37509	.23494	.16448	.26752	.26397
#1	.03156	.07141	.82007	.06353	.18001	2.9813	8.8852	.43636
#2	.03141	.07096	.82029	.06317	.17981	2.9897	8.9283	.43804
#3	.03142	.07048	.82405	.06362	.17920	2.9900	8.8892	.43857

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	1.1305	4.4505	.47298	.33407	.77105	.74130	1.9399	.44787
Stddev	.0030	.0131	.00094	.00082	.00186	.00100	.0068	.00084
%RSD	.26559	.29441	.19906	.24429	.24157	.13547	.34861	.18648
#1	1.1284	4.4408	.47256	.33379	.76901	.74016	1.9325	.44733
#2	1.1291	4.4654	.47232	.33342	.77148	.74205	1.9458	.44744
#3	1.1339	4.4454	.47406	.33498	.77266	.74168	1.9414	.44883

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	.33298	.12145	.20011	.05244	7.1233	.74180	.04638	.27349
Stddev	.00057	.00022	.00075	.00053	.0063	.00095	.00025	.00174
%RSD	.17000	.17921	.37463	1.0126	.08920	.12756	.54017	.63474
#1	.33262	.12141	.19940	.05198	7.1302	.74074	.04667	.27183
#2	.33267	.12169	.20090	.05231	7.1222	.74207	.04627	.27336
#3	.33363	.12126	.20002	.05302	7.1177	.74258	.04620	.27529

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	.84039	.02842	1.0574	.10991	.59513	1.7011	10.666
Stddev	.00232	.00021	.0032	.00023	.00045	.0040	.023
%RSD	.27587	.74621	.30353	.20972	.07482	.23486	.21338
#1	.83925	.02859	1.0552	.10978	.59538	1.6986	10.643
#2	.83886	.02848	1.0561	.11018	.59540	1.7057	10.688
#3	.84306	.02818	1.0611	.10977	.59462	1.6990	10.668

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: S2 Acquired: 12/02/2024 15:30:52 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) 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	952.61	28593.	5707.2	828.80	1618.3
Stddev	.90	15.	20.2	1.26	2.8
%RSD	.09454	.05177	.35451	.15190	.17260
#1	953.61	28605.	5730.2	829.44	1620.8
#2	952.36	28576.	5699.7	827.35	1618.8
#3	951.87	28597.	5691.9	829.60	1615.3

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: S3 Acquired: 12/02/2024 15:35:16 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) 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	.06545	.14178	1.6615	.12873	.36703	5.9828	17.741	.85682
Stddev	.00018	.00026	.0038	.00030	.00025	.1161	.343	.01311
%RSD	.28162	.18124	.23081	.23505	.06750	1.9413	1.9305	1.5297
#1	.06529	.14195	1.6575	.12887	.36699	6.0172	17.837	.86187
#2	.06565	.14191	1.6618	.12838	.36729	5.8533	17.361	.84193
#3	.06541	.14149	1.6652	.12893	.36680	6.0777	18.026	.86664

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	2.2812	8.8199	.93227	.67822	1.5181	1.4536	3.8122	.89650
Stddev	.0039	.1668	.00142	.00128	.0275	.0313	.0717	.02124
%RSD	.17037	1.8917	.15231	.18804	1.8089	2.1529	1.8807	2.3687
#1	2.2803	8.8778	.93069	.67881	1.5250	1.4638	3.8335	.90277
#2	2.2779	8.6318	.93267	.67676	1.4878	1.4185	3.7322	.87283
#3	2.2855	8.9500	.93345	.67910	1.5414	1.4785	3.8708	.91389

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	.67206	.22395	.40011	.10426	14.584	1.4280	.09836	.53714
Stddev	.00049	.00052	.00400	.00251	.076	.0307	.00026	.00893
%RSD	.07261	.23304	.99946	2.4107	.51865	2.1497	.26937	1.6629
#1	.67262	.22344	.40117	.10524	14.584	1.4359	.09847	.54040
#2	.67180	.22392	.39568	.10141	14.660	1.3942	.09855	.52703
#3	.67176	.22449	.40346	.10614	14.509	1.4540	.09806	.54398

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	1.6964	.05960	2.0606	.22454	1.1762	3.3635	21.181
Stddev	.0015	.00028	.0394	.00050	.0237	.0667	.409
%RSD	.08786	.47629	1.9133	.22347	2.0174	1.9827	1.9291
#1	1.6978	.05953	2.0752	.22431	1.1831	3.3788	21.289
#2	1.6948	.05936	2.0160	.22420	1.1498	3.2905	20.729
#3	1.6966	.05991	2.0907	.22512	1.1957	3.4212	21.525

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: S3 Acquired: 12/02/2024 15:35:16 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) 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	910.56	27836.	5689.1	775.27	1523.0
Stddev	1.40	60.	97.0	4.87	1.1
%RSD	.15376	.21478	1.7049	.62867	.07336
#1	908.97	27886.	5658.5	774.28	1522.8
#2	911.10	27769.	5797.7	770.97	1524.2
#3	911.62	27852.	5611.0	780.56	1522.0

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: S4 Acquired: 12/02/2024 15:39:40 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) 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	.13585	.27474	3.2794	.26185	.76102	12.066	35.116	1.6796
Stddev	.00022	.00042	.0076	.00140	.00428	.020	.279	.0066
%RSD	.15883	.15295	.23158	.53603	.56238	.16820	.79501	.39591
#1	.13584	.27483	3.2736	.26061	.75754	12.044	34.866	1.6825
#2	.13607	.27510	3.2880	.26157	.75974	12.084	35.417	1.6843
#3	.13563	.27428	3.2767	.26337	.76580	12.070	35.066	1.6720

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	4.4972	17.434	1.8049	1.3483	3.0100	2.8447	7.4502	1.7962
Stddev	.0086	.028	.0021	.0017	.0007	.0077	.0201	.0052
%RSD	.19007	.15873	.11585	.12752	.02259	.27115	.27005	.28829
#1	4.4911	17.435	1.8047	1.3479	3.0093	2.8363	7.4422	1.7910
#2	4.5069	17.461	1.8071	1.3502	3.0102	2.8515	7.4731	1.8013
#3	4.4935	17.405	1.8029	1.3469	3.0106	2.8463	7.4354	1.7964

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	1.3283	.42714	.80020	.20407	29.929	2.8209	.20174	1.0364
Stddev	.0037	.00119	.00209	.00043	.170	.0029	.00034	.0052
%RSD	.27757	.27910	.26078	.21116	.56684	.10314	.16952	.50438
#1	1.3246	.42658	.79784	.20443	30.101	2.8175	.20153	1.0415
#2	1.3320	.42851	.80096	.20419	29.762	2.8227	.20213	1.0368
#3	1.3283	.42633	.80180	.20359	29.925	2.8224	.20155	1.0310

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	3.4342	.12312	3.9975	.44773	2.3211	6.7421	41.407
Stddev	.0116	.00057	.0070	.00118	.0048	.0077	.390
%RSD	.33807	.46626	.17423	.26251	.20491	.11484	.94092
#1	3.4281	.12262	4.0019	.44656	2.3184	6.7379	41.235
#2	3.4269	.12375	4.0012	.44891	2.3266	6.7510	41.853
#3	3.4475	.12300	3.9895	.44772	2.3183	6.7373	41.133

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: S4 Acquired: 12/02/2024 15:39:40 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) 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	843.05	26858.	5602.8	694.25	1415.1
Stddev	3.09	32.	22.1	3.57	1.2
%RSD	.36697	.11938	.39403	.51357	.08479
#1	844.88	26881.	5597.6	690.87	1415.0
#2	844.79	26822.	5583.7	697.97	1414.0
#3	839.48	26872.	5627.0	693.90	1416.4

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: S5 Acquired: 12/02/2024 15:44:19 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) 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	.28991	.54653	6.6709	.58251	1.7103	25.015	71.029	3.3630
Stddev	.00109	.00241	.0418	.00377	.0087	.070	.686	.0029
%RSD	.37465	.44038	.62718	.64656	.50745	.28062	.96602	.08754
#1	.28912	.54449	6.6271	.57918	1.7005	25.000	70.296	3.3617
#2	.28947	.54593	6.6751	.58176	1.7169	25.091	71.655	3.3664
#3	.29115	.54919	6.7105	.58660	1.7136	24.953	71.136	3.3610

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	9.0729	35.159	3.5427	2.7387	6.1067	5.6930	14.860	3.7059
Stddev	.0635	.141	.0577	.0129	.0180	.0092	.063	.0078
%RSD	.70000	.40174	1.6292	.46917	.29512	.16206	.42235	.21014
#1	9.0058	35.164	3.5629	2.7254	6.0967	5.6833	14.857	3.7048
#2	9.0810	35.297	3.4776	2.7397	6.1275	5.7017	14.924	3.7142
#3	9.1320	35.015	3.5876	2.7510	6.0959	5.6942	14.798	3.6987

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	2.6766	.86680	1.6358	.41188	65.865	5.7804	.42835	1.9814
Stddev	.0159	.01262	.0051	.00199	1.166	.0134	.00339	.0062
%RSD	.59353	1.4554	.31064	.48412	1.7709	.23096	.79221	.31233
#1	2.6591	.86886	1.6353	.41345	66.316	5.7723	.42513	1.9744
#2	2.6805	.85328	1.6412	.41256	64.540	5.7959	.42803	1.9840
#3	2.6901	.87826	1.6311	.40964	66.738	5.7731	.43190	1.9859

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	7.4403	.26149	7.8368	.91005	4.6800	13.933	83.759
Stddev	.0325	.00100	.0056	.00679	.0107	.052	.920
%RSD	.43735	.38083	.07112	.74660	.22931	.36999	1.0984
#1	7.4028	.26035	7.8307	.90318	4.6821	13.920	84.464
#2	7.4611	.26196	7.8415	.91021	4.6896	13.990	84.095
#3	7.4569	.26217	7.8383	.91676	4.6684	13.889	82.718

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: S5 Acquired: 12/02/2024 15:44:19 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) 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	731.31	25681.	5494.8	560.91	1291.4
Stddev	2.70	321.	24.4	7.53	6.3
%RSD	.36901	1.2497	.44334	1.3427	.48817
#1	734.37	25572.	5497.8	557.69	1298.1
#2	729.29	26042.	5469.0	569.51	1290.4
#3	730.26	25428.	5517.5	555.52	1285.7

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: S6 Acquired: 12/02/2024 15:48:56 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) 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	63.890	54.964	15.059	5.9972	4.3273
Stddev	.560	.229	.009	.0028	.0017
%RSD	.87655	.41583	.06163	.04634	.03821
#1	63.249	54.753	15.069	5.9995	4.3277
#2	64.141	55.206	15.053	5.9941	4.3287
#3	64.282	54.932	15.054	5.9980	4.3255

Int. Std.	Y_3710
Units	Cts/S
Avg	5358.7
Stddev	21.0
%RSD	.39280
#1	5378.1
#2	5361.8
#3	5336.3

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: ICV011 Acquired: 12/02/2024 16:20:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV011 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9302695	1.077490	.9994085	.9762459	.9423681	2.395106
Stddev	.0025601	.001033	.0037936	.0015982	.0026759	.019797
%RSD	.2751957	.0958875	.3795861	.1637118	.2839569	.8265414
#1	.9273881	1.076343	1.002739	.9752293	.9453444	2.417314
#2	.9311384	1.078346	.995279	.9780881	.9401610	2.388694
#3	.9322820	1.077782	1.000208	.9754204	.9415988	2.379310

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5290852	.5379932	.5055187	10.33042	.5696593	.5014732
Stddev	.0048960	.0036699	.0011069	.09042	.0008267	.0026168
%RSD	.9253711	.6821427	.2189632	.8753210	.1451214	.5218206
#1	.5344996	.5421364	.5060549	10.39491	.5699674	.5035100
#2	.5277865	.5366919	.5042458	10.22706	.5687229	.4985219
#3	.5249696	.5351513	.5062554	10.36929	.5702878	.5023878

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4994544	10.65218	.5424813	5.511067	.5143140	.2472287
Stddev	.0052329	.06052	.0013977	.129799	.0010810	.0017727
%RSD	1.047716	.5681763	.2576545	2.355236	.2101808	.7170071
#1	.4969227	10.70684	.5439791	5.521749	.5142313	.2488812
#2	.5054717	10.58714	.5412116	5.376257	.5132768	.2453564
#3	.4959689	10.66256	.5422534	5.635194	.5154340	.2474484

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.26040	.5397740	.9637626	9.640514	F .0004175	F -.007729
Stddev	.06868	.0049298	.0049788	.030881	.0031663	.001340
%RSD	.6694021	.9133131	.5165961	.3203226	758.4383	17.33107
#1	10.32202	.5441468	.9580416	9.612325	.0030345	-.008346
#2	10.27283	.5344313	.9671141	9.635696	-.003102	-.008649
#3	10.18635	.5407440	.9661320	9.673520	.001320	-.006192

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: ICV011 Acquired: 12/02/2024 16:20:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV011 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.001020	F .0048618	F -.000397	F -.001816	F -.000684	F -.022489
Stddev	.000239	.0034269	.000673	.000998	.001474	.000652
%RSD	23.45924	70.48565	169.6956	54.99106	215.3425	2.901331
#1	-.001296	.0087564	-.000647	-.002967	-.002241	-.022800
#2	-.000885	.0035209	-.000909	-.001288	.000689	-.022927
#3	-.000878	.0023081	.000366	-.001192	-.000501	-.021739

Elem	Sr4077
Units	ppm
Avg	F .0012307
Stddev	.0000389
%RSD	3.162423
#1	.0011898
#2	.0012673
#3	.0012350

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	996.2054	29230.52	5672.246	865.0635	1768.258
Stddev	1.4263	47.13	45.891	2.7598	1.474
%RSD	.1431730	.1612303	.8090445	.3190265	.0833825
#1	994.6983	29176.11	5619.880	865.9822	1767.125
#2	996.3838	29256.82	5691.407	861.9615	1769.925
#3	997.5341	29258.62	5705.451	867.2467	1767.724

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: ICB011 Acquired: 12/02/2024 16:27:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB011 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055759	-.000679	-.003299	-.000265	.0016441	.1272186
Stddev	.0031555	.003761	.002077	.006979	.0013411	.0064931
%RSD	56.59195	554.2649	62.98253	2633.142	81.56961	5.103911
#1	.0063755	.002585	-.003070	.002679	.0010999	.1274920
#2	.0082547	-.004792	-.001345	-.008234	.0006606	.1335708
#3	.0020975	.000171	-.005481	.004760	.0031717	.1205932

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001254	.0000890	-.000062	-.003432	.0010345	.0001256
Stddev	.000613	.0001450	.000164	.002133	.0007488	.0002297
%RSD	48.84000	162.8600	264.6484	62.13127	72.38804	182.7979
#1	-.001676	.0000207	-.000239	-.001167	.0006321	.0000716
#2	-.001536	.0002555	.000085	-.005401	.0018985	-.000072
#3	-.000552	-.000009	-.000032	-.003728	.0005728	.000378

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021699	-.014340	.0005434	-.041417	.0001904	-.000634
Stddev	.0020004	.004834	.0003209	.034257	.0002420	.000301
%RSD	92.18770	33.70865	59.05669	82.71190	127.1016	47.50741
#1	.0020049	-.014769	.0007834	-.001885	-.000088	-.000288
#2	.0042477	-.018945	.0006680	-.062379	.000312	-.000842
#3	.0002571	-.009306	.0001789	-.059987	.000348	-.000771

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1787751	.0015458	.0018483	-.308000	.0008048	-.005658
Stddev	.4961219	.0051434	.0001761	.018786	.0009717	.001210
%RSD	277.5117	332.7261	9.524758	6.099362	120.7282	21.38208
#1	.0056868	.0014093	.0016451	-.322127	.0019155	-.004363
#2	-.207615	.0067561	.0019555	-.286680	.0003874	-.005850
#3	.738254	-.003528	.0019443	-.315193	.0001116	-.006760

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: ICB011 Acquired: 12/02/2024 16:27:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB011 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000209	.0030293	-.000504	-.001894	.0014801	F -.017423
Stddev	.000293	.0066123	.000854	.002208	.0016425	.000465
%RSD	140.2775	218.2784	169.2918	116.5243	110.9677	2.671596
#1	-.000546	.0106497	-.000986	.000528	.0027666	-.017290
#2	-.000073	-.000368	-.001009	-.003794	.0020437	-.017039
#3	-.000009	-.001193	.000481	-.002418	-.000370	-.017941

Elem	Sr4077
Units	ppm
Avg	.0000030
Stddev	.0000664
%RSD	2212.207
#1	-.000055
#2	.000075
#3	-.000011

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1000.870	29608.19	5668.537	880.7435	1840.476
Stddev	8.905	48.94	15.757	5.0473	18.654
%RSD	.8896866	.1652985	.2779656	.5730728	1.013520
#1	993.741	29563.10	5653.964	875.4743	1827.431
#2	1010.851	29601.22	5685.257	881.2213	1861.842
#3	998.017	29660.24	5666.389	885.5350	1832.156

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: ICSA011 Acquired: 12/02/2024 16:40:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA011 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0081323	-.009915	-.003614	-.002237	.0033938	239.4328
Stddev	.0089927	.011501	.006858	.006723	.0026041	.2942
%RSD	110.5792	115.9988	189.7737	300.6082	76.73153	.1228941
#1	.0166047	-.022304	-.010189	.005420	.0062260	239.2216
#2	-.001303	-.007861	-.004147	-.007175	.0028526	239.3080
#3	.009095	.000421	.003495	-.004954	.0011028	239.7689

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046464	.0001036	.0024688	245.9508	.0501755	.0019943
Stddev	.0002763	.0000805	.0002636	.8808	.0010407	.0010831
%RSD	5.946510	77.75337	10.67735	.3581170	2.074027	54.30956
#1	.0049164	.0000146	.0027456	245.1165	.0495049	.0032270
#2	.0046586	.0001245	.0022207	245.8643	.0496473	.0011948
#3	.0043642	.0001716	.0024401	246.8717	.0513744	.0015612

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001801	100.5962	.0134654	237.3921	.0039712	.0035427
Stddev	.002316	.0354	.0006050	.1044	.0005385	.0007981
%RSD	128.6151	.0351689	4.492676	.0439698	13.56047	22.52759
#1	-.003112	100.5751	.0136734	237.2774	.0045832	.0038652
#2	-.003165	100.5764	.0127839	237.4174	.0035702	.0041291
#3	.000874	100.6370	.0139390	237.4816	.0037601	.0026338

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6440614	-.003624	.0115685	-.848029	-.003646	-.006639
Stddev	.3313827	.003244	.0011573	.053711	.002481	.002630
%RSD	51.45204	89.52944	10.00416	6.333627	68.05724	39.61612
#1	.6958579	-.001574	.0128406	-.820267	-.006369	-.007471
#2	.9464959	-.007364	.0105779	-.813880	-.003053	-.003694
#3	.2898305	-.001934	.0112870	-.909939	-.001514	-.008753

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: ICSA011 Acquired: 12/02/2024 16:40:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA011 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001955	.0116872	-.001365	-.006814	-.001659	F -.018833
Stddev	.001230	.0031475	.000440	.001042	.000405	.000991
%RSD	62.91286	26.93154	32.28250	15.29189	24.38956	5.262364
#1	-.002243	.0146750	-.001214	-.007518	-.001242	-.018557
#2	-.000607	.0084012	-.001861	-.005617	-.002049	-.019932
#3	-.003016	.0119854	-.001019	-.007308	-.001686	-.018008

Elem	Sr4077
Units	ppm
Avg	F .1020231
Stddev	.0002192
%RSD	.2148269
#1	.1021279
#2	.1017712
#3	.1021702

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	932.7902	27354.34	5619.640	819.7372	1488.299
Stddev	2.0508	222.15	20.393	6.1719	3.430
%RSD	.2198557	.8121375	.3628864	.7529132	.2304504
#1	932.0933	27217.81	5638.587	816.0194	1484.339
#2	935.0987	27234.54	5622.274	816.3306	1490.334
#3	931.1787	27610.68	5598.058	826.8617	1490.224

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: ICSAB011 Acquired: 12/02/2024 16:44:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB011 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1106477	.0961374	.0446091	.0428251	.5565713	243.8267
Stddev	.0051468	.0103482	.0019759	.0057489	.0034802	6.7269
%RSD	4.651545	10.76398	4.429328	13.42405	.6252877	2.758902
#1	.1080148	.0869533	.0437382	.0422425	.5525552	245.4954
#2	.1165783	.0941093	.0432183	.0488430	.5584595	236.4225
#3	.1073499	.1073495	.0468708	.0373897	.5586994	249.5622

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5332873	.5263197	1.058453	250.0722	.6108176	.5229085
Stddev	.0148916	.0128599	.002604	6.8146	.0022958	.0013919
%RSD	2.792416	2.443356	.2459767	2.725033	.3758515	.2661872
#1	.5379205	.5294018	1.060781	252.0789	.6114800	.5228196
#2	.5166298	.5121989	1.058937	242.4796	.6082634	.5243428
#3	.5453115	.5373585	1.055642	255.6581	.6127093	.5215633

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4802189	102.3314	.5331132	241.6859	1.046630	.1913993
Stddev	.0105276	2.9510	.0152152	7.4873	.001927	.0008120
%RSD	2.192242	2.883806	2.854024	3.097927	.1841559	.4242602
#1	.4837177	102.9159	.5386283	243.0838	1.045631	.1919691
#2	.4683874	99.1318	.5159096	233.5983	1.048852	.1917593
#3	.4885516	104.9464	.5448018	248.3757	1.045408	.1904695

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7157905	.5348270	.9190002	-.969729	.0024145	-.008626
Stddev	.3189468	.0154976	.0025822	.110113	.0061227	.001656
%RSD	44.55868	2.897691	.2809733	11.35503	253.5779	19.19568
#1	.3705867	.5414253	.9219413	-.981110	.0094843	-.006952
#2	.7772491	.5171222	.9179536	-1.07371	-.001154	-.008663
#3	.9995357	.5459335	.9171056	-.85437	-.001087	-.010263

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: ICSAB011 Acquired: 12/02/2024 16:44:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB011 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002141	.0116675	-.000564	F -.007418	-.003106	F -.020865
Stddev	.000281	.0112687	.000761	.003189	.001200	.001471
%RSD	13.12379	96.58262	134.9399	42.99027	38.62013	7.051671
#1	-.002381	.0232384	-.001429	-.010990	-.002684	-.022539
#2	-.002209	.0007274	-.000264	-.004856	-.002175	-.020283
#3	-.001832	.0110366	.000001	-.006409	-.004460	-.019774

Elem	Sr4077
Units	ppm
Avg	F .1041065
Stddev	.0027938
%RSD	2.683635
#1	.1048780
#2	.1010080
#3	.1064335

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	913.1938	27176.59	5648.939	810.9195	1460.121
Stddev	3.2337	21.68	145.535	3.5448	2.817
%RSD	.3541136	.0797784	2.576323	.4371369	.1929573
#1	914.1136	27153.32	5610.159	809.3064	1458.871
#2	909.5998	27180.25	5809.935	808.4681	1458.144
#3	915.8680	27196.22	5526.722	814.9840	1463.347

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCV071 Acquired: 12/02/2024 16:49:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV071 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.354240	5.007314	26.29863	5.005511	5.078064	421.0349	10.57685
Stddev	.013204	.012337	.07648	.029543	.026923	.4795	.07260
%RSD	.2466108	.2463830	.2907960	.5902193	.5301820	.1138946	.6864425
#1	5.359434	5.014706	26.36342	5.027076	5.108345	421.5043	10.53317
#2	5.339229	4.993071	26.21427	4.971837	5.056831	420.5458	10.66066
#3	5.364058	5.014164	26.31820	5.017620	5.069015	421.0547	10.53671

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5202912	2.672174	428.9746	16.30034	2.658752	15.70624	431.7915
Stddev	.0024431	.002538	.2367	.03253	.005445	.00486	.8081
%RSD	.4695707	.0949869	.0551818	.1995591	.2047815	.0309276	.1871539
#1	.5192911	2.674895	428.9043	16.33693	2.663005	15.70448	431.6196
#2	.5185068	2.671757	428.7810	16.28938	2.652616	15.71173	431.0832
#3	.5230757	2.669870	429.2385	16.27470	2.660635	15.70250	432.6717

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.66322	419.1440	2.631106	1.341973	423.4561	2.617352	15.56337
Stddev	.00305	.6158	.005930	.003759	.6797	.008090	.10091
%RSD	.0195005	.1469219	.2253896	.2801418	.1605087	.3091018	.6484065
#1	15.66567	419.6549	2.631206	1.345552	423.4738	2.626118	15.45086
#2	15.65980	418.4602	2.625127	1.342311	424.1268	2.615766	15.59335
#3	15.66419	419.3169	2.636986	1.338056	422.7677	2.610172	15.64590

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	161.2836	5.193361	4.710887	5.025665	5.357626	4.513891	5.288317
Stddev	.0353	.009733	.019892	.012042	.014493	.023067	.011745
%RSD	.0219119	.1874121	.4222510	.2396131	.2705209	.5110298	.2220840
#1	161.2657	5.204287	4.696055	5.034433	5.342099	4.498846	5.286305
#2	161.2608	5.185618	4.703114	5.011934	5.370797	4.502378	5.277708
#3	161.3243	5.190179	4.733491	5.030626	5.359981	4.540448	5.300937

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCV071 Acquired: 12/02/2024 16:49:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV071 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.217583	5.346988	5.282098
Stddev	.005845	.004813	.017239
%RSD	.1120173	.0900068	.3263726
#1	5.223709	5.352540	5.268496
#2	5.216972	5.344434	5.276312
#3	5.212067	5.343992	5.301486

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	792.6437	25398.02	5451.134	645.1227	1290.447
Stddev	1.3177	57.86	9.813	3.7801	1.260
%RSD	.1662381	.2278073	.1800115	.5859488	.0976259
#1	791.3355	25344.67	5453.410	649.4152	1289.287
#2	793.9707	25389.87	5459.609	642.2912	1291.787
#3	792.6250	25459.52	5440.384	643.6616	1290.265

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCB071 Acquired: 12/02/2024 16:53:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB071 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0060817	-.002176	-.003386	.0081089	.0008043	.0086501	-.000674
Stddev	.0039151	.004569	.005729	.0049901	.0028007	.0042680	.000288
%RSD	64.37514	209.9511	169.2018	61.53792	348.2174	49.34074	42.76625
#1	.0086243	-.004790	.001625	.0124634	.0038149	.0038499	-.000499
#2	.0080475	-.004838	-.009632	.0026637	-.001724	.0100835	-.001006
#3	.0015732	.003099	-.002151	.0091997	.000322	.0120168	-.000516

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000320	-.000071	.0052776	.0008504	-.000410	.0004825	.0052189
Stddev	.0001331	.000100	.0090250	.0005843	.000559	.0036555	.0136472
%RSD	415.6533	142.1556	171.0052	68.71751	136.2559	757.6872	261.4966
#1	.0001115	-.000037	-.004846	.0010331	.000119	.0044120	.0025858
#2	.0001061	-.000183	.008200	.0001965	-.000994	-.002817	.0199908
#3	-.000122	.000009	.012479	.0013214	-.000355	-.000148	-.006920

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006036	-.000896	.0000463	.0005813	.2254280	-.004867	-.000065
Stddev	.0004315	.017882	.0001619	.0003188	.1982798	.005215	.000263
%RSD	71.48636	1995.602	349.4828	54.83926	87.95706	107.1458	400.9955
#1	.0001533	-.021522	-.000141	.0004195	.1767684	-.002230	-.000368
#2	.0006441	.010237	.000137	.0009485	.4435078	-.010874	.000095
#3	.0010134	.008598	.000143	.0003759	.0560077	-.001497	.000077

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0785240	.0015817	-.000228	-.000444	.0017591	-.000313	-.002616
Stddev	.0244322	.0032596	.001770	.000468	.0065280	.000212	.000192
%RSD	31.11437	206.0793	777.0349	105.2591	371.1095	67.80582	7.321698
#1	.0832390	.0053159	-.000202	.000062	-.005581	-.000490	-.002835
#2	.0520779	.0001239	.001529	-.000533	.003942	-.000369	-.002478
#3	.1002551	-.000695	-.002011	-.000861	.006916	-.000078	-.002536

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCB071 Acquired: 12/02/2024 16:53:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB071 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0006305	-.013240	.0000648
Stddev	.0013755	.001070	.0001328
%RSD	218.1616	8.084883	205.0711
#1	.0009651	-.012611	.0001888
#2	.0018077	-.014476	.0000808
#3	-.000881	-.012632	-.000075

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	990.7179	29357.00	5632.036	878.1902	1807.997
Stddev	6.9828	60.56	10.659	2.3288	11.961
%RSD	.7048239	.2062924	.1892534	.2651809	.6615688
#1	992.5577	29356.42	5641.736	878.2199	1814.266
#2	996.5966	29296.73	5633.746	880.5041	1815.521
#3	982.9994	29417.85	5620.625	875.8468	1794.205

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165190BL Acquired: 12/02/2024 16:58:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBW190 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0090017	.0012442	-.004629	.0031700	.0011472	-.000231
Stddev	.0036182	.0016634	.002099	.0030735	.0025173	.001181
%RSD	40.19481	133.6942	45.33231	96.95509	219.4293	511.8578
#1	.0131205	.0029169	-.002221	.0066242	.0002446	-.000976
#2	.0075489	.0012252	-.006068	.0007377	.0039914	-.000848
#3	.0063357	-.000410	-.005599	.0021480	-.000794	.001131

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001431	.0000458	-.000193	-.006037	.0003835	.0001500
Stddev	.000206	.0000552	.000144	.009337	.0008531	.0005337
%RSD	14.41128	120.4669	74.55933	154.6529	222.4647	355.8243
#1	-.001578	.0000858	-.000359	.004690	.0011707	.0007589
#2	-.001519	.0000689	-.000109	-.010463	.0005027	-.000072
#3	-.001195	-.000017	-.000111	-.012338	-.000523	-.000237

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005762	-.009631	-.000275	-.007924	.0002080	.0008239
Stddev	.0013733	.002748	.000375	.047601	.0002508	.0005271
%RSD	238.3432	28.53159	136.2665	600.7126	120.5965	63.97365
#1	.0000341	-.006911	.000155	-.027864	-.000068	.0010986
#2	.0021378	-.012406	-.000446	.046404	.000422	.0002162
#3	-.000443	-.009576	-.000535	-.042313	.000270	.0011569

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1578571	-.000093	-.000048	-.028526	.0007413	-.003319
Stddev	.1097060	.002066	.000473	.024320	.0043298	.000969
%RSD	69.49701	2232.478	986.6039	85.25507	584.0775	29.20223
#1	.2824334	.001138	-.000432	-.014028	.0053946	-.003612
#2	.1154681	-.002477	-.000193	-.056603	-.000002	-.002237
#3	.0756700	.001062	.000481	-.014947	-.003169	-.004108

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165190BL Acquired: 12/02/2024 16:58:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBW190 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000384	.0031643	-.000377	-.000622	.0004784	F -.017997
Stddev	.000355	.0016822	.000164	.002938	.0009760	.000826
%RSD	92.43661	53.15983	43.60531	472.7010	203.9940	4.590065
#1	-.000174	.0021209	-.000455	.000458	-.000644	-.018391
#2	-.000795	.0022672	-.000188	-.003947	.000954	-.018552
#3	-.000184	.0051049	-.000488	.001624	.001126	-.017048

Elem	Sr4077
Units	ppm
Avg	-.000029
Stddev	.000104
%RSD	358.6581
#1	.000083
#2	-.000048
#3	-.000123

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	998.6403	29271.82	5648.525	867.2073	1820.210
Stddev	4.7225	96.84	27.523	1.1358	12.988
%RSD	.4728947	.3308412	.4872614	.1309709	.7135637
#1	997.4103	29166.14	5640.836	865.9825	1814.084
#2	1003.856	29356.32	5679.075	868.2257	1835.128
#3	994.655	29292.99	5625.664	867.4137	1811.417

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165190BS Acquired: 12/02/2024 17:02:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCSW190 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0194298	.0559269	.0193643	.0686695	.1172624	.4243081
Stddev	.0064840	.0023865	.0015947	.0046810	.0023109	.0132288
%RSD	33.37161	4.267176	8.235265	6.816650	1.970730	3.117733
#1	.0119814	.0539616	.0178230	.0632865	.1185788	.4394081
#2	.0224957	.0552366	.0192624	.0717836	.1145940	.4187563
#3	.0238123	.0585824	.0210076	.0709384	.1186143	.4147598

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4554164	.0113401	.0114192	11.63667	.0246662	.1082348
Stddev	.0006257	.0000736	.0002121	.03658	.0004424	.0008522
%RSD	.1373848	.6487824	1.857361	.3143709	1.793759	.7873436
#1	.4548644	.0113853	.0111927	11.66038	.0251347	.1075868
#2	.4560961	.0113798	.0114517	11.65509	.0246084	.1079174
#3	.4552886	.0112552	.0116132	11.59454	.0242554	.1092001

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0565334	.2195580	.0384482	10.71487	.0937846	.0248819
Stddev	.0018617	.0137223	.0001799	.05334	.0012200	.0004853
%RSD	3.293041	6.249977	.4679356	.4978357	1.300871	1.950537
#1	.0584087	.2322694	.0385624	10.74566	.0934657	.0250746
#2	.0565056	.2050098	.0382408	10.74568	.0927558	.0252412
#3	.0546857	.2213949	.0385414	10.65328	.0951324	.0243298

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.18801	.1204540	.1427037	10.51342	.0231885	F -.003528
Stddev	.32647	.0015717	.0005108	.05325	.0036456	.000636
%RSD	2.918012	1.304788	.3579456	.5064716	15.72180	18.02169
#1	11.34830	.1189637	.1421810	10.56165	.0265955	-.004236
#2	10.81238	.1220961	.1432017	10.45628	.0193437	-.003004
#3	11.40334	.1203023	.1427282	10.52232	.0236263	-.003345

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165190BS Acquired: 12/02/2024 17:02:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCSW190 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0206536	.2061772	F .3291862	.0141562	.2188605	F .0120564
Stddev	.0001104	.0094235	.0011623	.0023178	.0002409	.0017924
%RSD	.5344041	4.570570	.3530933	16.37299	.1100853	14.86697
#1	.0206511	.2104917	.3302712	.0153326	.2191161	.0136875
#2	.0205445	.1953689	.3293277	.0156499	.2188280	.0123440
#3	.0207652	.2126711	.3279595	.0114861	.2186376	.0101375

Elem	Sr4077
Units	ppm
Avg	.2265703
Stddev	.0005901
%RSD	.2604364
#1	.2261280
#2	.2272403
#3	.2263426

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	981.4666	28915.71	5700.247	862.0643	1720.664
Stddev	5.0550	86.50	20.634	6.3306	12.905
%RSD	.5150502	.2991475	.3619821	.7343581	.7500209
#1	982.6109	28891.83	5697.135	864.6414	1725.141
#2	985.8514	28843.65	5681.346	854.8516	1730.735
#3	975.9375	29011.64	5722.260	866.6999	1706.117

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165192BL Acquired: 12/02/2024 17:07:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS192 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016645	.0012658	-.002981	-.001328	-.001618	.0647226
Stddev	.0010808	.0026875	.002097	.005641	.001496	.0024522
%RSD	64.93052	212.3172	70.32501	424.7770	92.43475	3.788841
#1	.0026491	-.000521	-.000907	-.002420	-.003343	.0675144
#2	.0018363	-.000038	-.005100	-.006342	-.000696	.0637361
#3	.0005081	.004357	-.002937	.004779	-.000814	.0629172

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000803	.0000073	-.000000	-.008608	.0007264	.0001722
Stddev	.000383	.0001032	.000176	.012558	.0008492	.0003379
%RSD	47.72260	1421.078	889037.8	145.8858	116.9128	196.2629
#1	-.000426	-.000012	-.000109	-.011938	-.000049	.0001146
#2	-.000792	-.000085	.000203	-.019167	.001634	.0005351
#3	-.001192	.000119	-.000094	.005279	.000594	-.000133

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016674	-.002796	.0003694	.0075011	-.000237	.0005596
Stddev	.0029869	.001101	.0010041	.0533804	.000104	.0001391
%RSD	179.1403	39.36014	271.8289	711.6349	43.90406	24.86233
#1	-.000643	-.004027	.0011451	-.028382	-.000308	.0006335
#2	.005040	-.001906	-.000765	.068845	-.000286	.0003991
#3	.000604	-.002456	.000728	-.017959	-.000118	.0006462

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4709581	-.001681	.0003815	-.022858	.0004412	-.005396
Stddev	.1487196	.000418	.0004842	.130234	.0035495	.002454
%RSD	31.57809	24.88939	126.9233	569.7405	804.5336	45.48556
#1	.5043568	-.001963	.0007480	.013854	-.003409	-.008060
#2	.3083790	-.001200	.0005638	-.167508	.003584	-.003226
#3	.6001387	-.001880	-.000167	.085079	.001149	-.004902

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165192BL Acquired: 12/02/2024 17:07:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS192 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002210	.0051443	-.000038	-.000266	.0009636	F -.020974
Stddev	.0003579	.0069393	.000342	.001979	.0006722	.000309
%RSD	161.9701	134.8917	898.7325	744.4633	69.75428	1.471008
#1	.0001154	.0051766	.000122	-.001986	.0016400	-.020633
#2	-.000072	.0120675	.000195	-.000708	.0002957	-.021052
#3	.000620	-.001811	-.000431	.001897	.0009552	-.021236

Elem	Sr4077
Units	ppm
Avg	-.000046
Stddev	.000070
%RSD	152.3761
#1	-.000088
#2	.000035
#3	-.000086

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	997.9179	29300.54	5679.283	868.2943	1815.728
Stddev	2.7677	24.97	76.899	1.0406	6.790
%RSD	.2773490	.0852364	1.354019	.1198421	.3739788
#1	1001.114	29272.00	5675.354	868.6589	1823.496
#2	996.296	29311.27	5758.071	869.1035	1812.762
#3	996.344	29318.37	5604.425	867.1205	1810.924

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165192BS Acquired: 12/02/2024 17:11:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS192 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0180696	.0518834	.0183390	.0704957	.1156455	.4550080
Stddev	.0041410	.0007944	.0029279	.0056290	.0009089	.0097859
%RSD	22.91711	1.531084	15.96548	7.984834	.7859292	2.150714
#1	.0171703	.0524643	.0167770	.0648648	.1148699	.4662203
#2	.0225865	.0522076	.0165232	.0761227	.1154210	.4506177
#3	.0144522	.0509781	.0217166	.0704996	.1166456	.4481861

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4468271	.0113676	.0111013	11.37721	.0241336	.1069328
Stddev	.0102743	.0002969	.0000943	.23476	.0003984	.0003393
%RSD	2.299384	2.612049	.8490430	2.063408	1.650596	.3173465
#1	.4489184	.0115374	.0110663	11.46164	.0236781	.1065678
#2	.4356681	.0110248	.0110296	11.11191	.0244169	.1069920
#3	.4558949	.0115407	.0112081	11.55807	.0243058	.1072387

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0548524	.2083280	.0376077	10.58329	.0922465	.0243493
Stddev	.0043644	.0154070	.0010861	.20373	.0005435	.0004150
%RSD	7.956553	7.395560	2.887862	1.925056	.5892417	1.704510
#1	.0563103	.2260886	.0381726	10.68333	.0928304	.0242595
#2	.0499457	.2003410	.0363556	10.34888	.0921537	.0248018
#3	.0583013	.1985545	.0382949	10.71767	.0917553	.0239864

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.96135	.1166096	.1406085	10.28401	.0220227	F -.003678
Stddev	.39834	.0071792	.0006075	.27932	.0022328	.001467
%RSD	3.634006	6.156631	.4320355	2.716017	10.13852	39.88207
#1	11.04323	.1129220	.1400081	10.39765	.0199221	-.002710
#2	10.52843	.1120235	.1405947	9.96578	.0217786	-.005365
#3	11.31238	.1248832	.1412228	10.48858	.0243676	-.002957

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165192BS Acquired: 12/02/2024 17:11:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS192 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0207890	.2108266	F .3239245	.0150474	.2154834	F .0089252
Stddev	.0003801	.0077360	.0081252	.0000438	.0045238	.0007174
%RSD	1.828540	3.669358	2.508376	.2909222	2.099359	8.037581
#1	.0205855	.2159933	.3262149	.0150762	.2165343	.0083719
#2	.0205540	.2019326	.3148999	.0149971	.2105267	.0086681
#3	.0212276	.2145541	.3306587	.0150690	.2193892	.0097357

Elem	Sr4077
Units	ppm
Avg	.2228182
Stddev	.0050402
%RSD	2.262036
#1	.2245636
#2	.2171373
#3	.2267538

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	988.0771	28940.50	5733.800	862.4367	1731.901
Stddev	.7844	36.99	106.670	.4796	.804
%RSD	.0793894	.1278303	1.860375	.0556126	.0464094
#1	988.9272	28952.84	5689.353	862.9731	1732.411
#2	987.9230	28898.92	5855.506	862.0492	1730.974
#3	987.3812	28969.75	5656.539	862.2877	1732.317

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165197BL Acquired: 12/02/2024 17:16:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS197 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023906	-.002672	-.002546	-.002083	-.000125	-.006526
Stddev	.0034252	.004145	.002964	.000953	.002717	.013606
%RSD	143.2781	155.1498	116.4207	45.74168	2172.561	208.4835
#1	.0011683	-.007204	-.005293	-.001410	.001120	.006710
#2	-.000256	.000927	.000596	-.001666	.001747	-.005813
#3	.006259	-.001738	-.002941	-.003173	-.003242	-.020475

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000749	.0000717	-.000170	-.011532	.0003039	-.000405
Stddev	.000080	.0000662	.000153	.011082	.0011253	.000106
%RSD	10.68126	92.28830	90.02695	96.09670	370.2159	26.28820
#1	-.000719	.0000118	-.000318	-.024304	.0012377	-.000385
#2	-.000839	.0001427	-.000179	-.005837	.0006196	-.000520
#3	-.000688	.0000606	-.000013	-.004456	-.000945	-.000310

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009519	.0012891	-.000033	.0117593	.0004498	.0008537
Stddev	.0013539	.0128891	.000353	.0023371	.0001311	.0003028
%RSD	142.2351	999.8290	1071.161	19.87458	29.13910	35.47496
#1	.0025051	-.000342	-.000371	.0130658	.0005627	.0008744
#2	.0000216	.014916	.000334	.0131511	.0004806	.0011456
#3	.0003289	-.010707	-.000062	.0090611	.0003061	.0005410

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.228249	.0026153	-.000013	-.167517	-.001780	-.006379
Stddev	.127547	.0006313	.000449	.123012	.002339	.001135
%RSD	55.88085	24.13908	3574.449	73.43282	131.4136	17.79279
#1	-.241413	.0019589	-.000467	-.025480	-.000716	-.007680
#2	-.094629	.0032181	.000432	-.237483	-.004463	-.005866
#3	-.348703	.0026689	-.000003	-.239588	-.000162	-.005592

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165197BL Acquired: 12/02/2024 17:16:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS197 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000076	.0042259	-.000292	-.002109	-.000282	F -.023330
Stddev	.000389	.0038713	.000534	.001030	.001638	.002541
%RSD	514.7704	91.60940	182.7817	48.81996	580.0909	10.89237
#1	-.000481	.0016713	-.000867	-.002513	.001342	-.020783
#2	.000295	.0086801	.000187	-.002876	-.000256	-.023341
#3	-.000040	.0023263	-.000195	-.000939	-.001933	-.025866

Elem	Sr4077
Units	ppm
Avg	.0000320
Stddev	.0000790
%RSD	247.2192
#1	.0001081
#2	.0000375
#3	-.000050

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	983.5579	29230.89	5649.792	872.3685	1788.566
Stddev	13.2771	84.65	18.199	4.1910	21.641
%RSD	1.349903	.2896046	.3221255	.4804140	1.209992
#1	988.6772	29305.81	5635.368	871.0056	1793.052
#2	993.5132	29139.05	5643.768	869.0286	1807.612
#3	968.4833	29247.80	5670.239	877.0713	1765.033

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165197BS Acquired: 12/02/2024 17:20:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS197 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0238385	.0492082	.0197568	.0624055	.1113609	.3929549
Stddev	.0080681	.0028627	.0038980	.0057998	.0006888	.0169638
%RSD	33.84496	5.817568	19.72969	9.293681	.6185426	4.316982
#1	.0249712	.0462259	.0215109	.0681159	.1115418	.4082257
#2	.0152639	.0519341	.0152900	.0565203	.1119412	.3959438
#3	.0312804	.0494645	.0224696	.0625801	.1105997	.3746953

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4401961	.0113252	.0109451	11.28251	.0244882	.1039493
Stddev	.0004980	.0000992	.0000301	.02298	.0010803	.0006886
%RSD	.1131218	.8763039	.2753638	.2036989	4.411401	.6624633
#1	.4407043	.0112117	.0109107	11.26954	.0235729	.1046337
#2	.4397091	.0113678	.0109573	11.30904	.0256798	.1039576
#3	.4401747	.0113959	.0109672	11.26894	.0242120	.1032565

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0531357	.2138043	.0365650	10.55550	.0892056	.0247023
Stddev	.0043275	.0059740	.0005221	.06446	.0003484	.0008316
%RSD	8.144262	2.794132	1.427983	.6106399	.3906191	3.366429
#1	.0508206	.2080481	.0360390	10.49625	.0893001	.0251016
#2	.0581283	.2133902	.0365728	10.62414	.0894971	.0252590
#3	.0504582	.2199745	.0370832	10.54612	.0888197	.0237464

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.84292	.1157953	.1383680	10.23829	.0185172	F -.006219
Stddev	.06561	.0023192	.0007453	.08380	.0034704	.000467
%RSD	.6051349	2.002835	.5386500	.8184928	18.74144	7.509301
#1	10.77062	.1177666	.1390291	10.31047	.0189963	-.005978
#2	10.89868	.1163794	.1385146	10.25800	.0148321	-.006757
#3	10.85948	.1132399	.1375603	10.14639	.0217231	-.005921

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165197BS Acquired: 12/02/2024 17:20:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS197 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0202290	.2071631	F .3255031	.0136002	.2119524	F .0099767
Stddev	.0002816	.0019488	.0010919	.0006079	.0007704	.0005827
%RSD	1.391975	.9407052	.3354592	4.469518	.3634591	5.840854
#1	.0204939	.2055172	.3267592	.0129929	.2117091	.0103050
#2	.0199333	.2093150	.3247798	.0142086	.2128150	.0093039
#3	.0202599	.2066573	.3249704	.0135991	.2113330	.0103213

Elem	Sr4077
Units	ppm
Avg	.2192874
Stddev	.0004209
%RSD	.1919328
#1	.2189558
#2	.2191454
#3	.2197609

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	990.9017	29081.52	5623.234	866.4250	1743.732
Stddev	1.3133	80.67	9.294	3.9640	1.184
%RSD	.1325408	.2773911	.1652763	.4575162	.0679228
#1	990.1551	29085.20	5616.889	861.9771	1744.872
#2	990.1318	28999.07	5618.911	867.7131	1743.817
#3	992.4181	29160.29	5633.902	869.5847	1742.507

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165139BL Acquired: 12/02/2024 17:25:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS139 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027954	-.003822	-.000376	-.000961	-.001002	-.013711
Stddev	.0034554	.000494	.001104	.003205	.002282	.009864
%RSD	123.6122	12.93550	293.3556	333.5758	227.8147	71.94017
#1	-.000851	-.003634	-.001476	.001456	-.003081	-.003235
#2	.006022	-.004383	.000733	.000258	-.001363	-.022819
#3	.003215	-.003450	-.000386	-.004596	.001439	-.015079

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003372	-.000014	-.000083	.0010638	.0001712	-.000111
Stddev	.0010876	.000110	.000031	.0082793	.0005556	.000498
%RSD	322.5372	772.3389	36.82783	778.2862	324.5840	448.4159
#1	-.000901	.000080	-.000069	-.003350	-.000097	-.000484
#2	.001137	.000012	-.000062	.010615	.000810	.000454
#3	.000775	-.000135	-.000119	-.004073	-.000199	-.000302

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0025538	-.014005	-.000101	-.001818	.0002391	.0009273
Stddev	.0034512	.005380	.000471	.013000	.0007771	.0001959
%RSD	135.1418	38.41736	466.4985	715.1351	324.9566	21.12767
#1	.0064861	-.012095	-.000463	-.016228	.0002122	.0010351
#2	.0011473	-.009841	.000432	.009027	.0010294	.0007012
#3	.0000279	-.020080	-.000272	.001747	-.000524	.0010457

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3525470	-.003195	-.000195	-.118886	.0026051	-.007035
Stddev	.4116900	.004937	.000074	.051776	.0007756	.002261
%RSD	116.7760	154.4972	38.17865	43.55072	29.77321	32.13637
#1	.4892304	-.002189	-.000278	-.149544	.0020839	-.004561
#2	.6785108	.001161	-.000172	-.059107	.0022349	-.008993
#3	-.110100	-.008558	-.000135	-.148008	.0034965	-.007552

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165139BL Acquired: 12/02/2024 17:25:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS139 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000040	-.000423	-.000349	-.002433	.0005227	F -.021531
Stddev	.000526	.004985	.000162	.001002	.0014779	.001146
%RSD	1323.112	1179.743	46.53510	41.18222	282.7131	5.322102
#1	-.000258	-.005793	-.000512	-.001856	.0003583	-.022153
#2	-.000421	.000466	-.000348	-.003590	-.000866	-.022231
#3	.000560	.004059	-.000187	-.001852	.002076	-.020209

Elem	Sr4077
Units	ppm
Avg	.0000459
Stddev	.0001363
%RSD	296.7404
#1	.0001507
#2	-.000108
#3	.000095

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1004.721	29587.94	5616.494	883.3181	1850.180
Stddev	1.341	51.78	24.940	4.4303	1.263
%RSD	.1334533	.1749952	.4440460	.5015519	.0682895
#1	1004.633	29528.43	5639.050	880.4912	1849.234
#2	1006.104	29612.74	5620.721	888.4240	1851.615
#3	1003.427	29622.65	5589.711	881.0391	1849.691

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165139BS Acquired: 12/02/2024 17:30:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS139 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0217954	.0567151	.0185220	.0687504	.1131483	.4077386
Stddev	.0062617	.0016209	.0026793	.0070973	.0015613	.0111036
%RSD	28.72946	2.857929	14.46543	10.32336	1.379862	2.723219
#1	.0154325	.0553623	.0196026	.0735766	.1124462	.4108784
#2	.0279507	.0585117	.0154711	.0606011	.1149373	.3954032
#3	.0220030	.0562714	.0204922	.0720734	.1120613	.4169343

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4425886	.0116641	.0108942	11.33852	.0239897	.1052647
Stddev	.0004562	.0000229	.0001036	.01793	.0000827	.0007149
%RSD	.1030693	.1965647	.9512063	.1581143	.3448254	.6791239
#1	.4423503	.0116557	.0108427	11.35510	.0239468	.1052191
#2	.4423011	.0116466	.0110134	11.34095	.0239373	.1060012
#3	.4431146	.0116901	.0108263	11.31949	.0240851	.1045736

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0561789	.2216403	.0365663	10.79642	.0904701	.0240495
Stddev	.0019932	.0062471	.0005868	.11997	.0005678	.0001083
%RSD	3.547894	2.818576	1.604811	1.111172	.6276207	.4502489
#1	.0560620	.2286965	.0359608	10.66174	.0905728	.0241730
#2	.0582279	.2194102	.0366057	10.83569	.0909796	.0240051
#3	.0542467	.2168143	.0371324	10.89183	.0898580	.0239705

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.91122	.1200931	.1391187	10.21401	.0194536	F -.004456
Stddev	.47005	.0057215	.0002932	.15217	.0017818	.001144
%RSD	4.307943	4.764189	.2107459	1.489803	9.159274	25.66362
#1	11.01494	.1152727	.1393288	10.04591	.0204939	-.003647
#2	10.39797	.1185907	.1392434	10.34236	.0173962	-.003957
#3	11.32075	.1264159	.1387837	10.25375	.0204707	-.005764

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165139BS Acquired: 12/02/2024 17:30:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS139 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0205766	.2008947	F .3326834	.0132661	.2170062	F .0091482
Stddev	.0008079	.0078086	.0005128	.0011016	.0017071	.0010311
%RSD	3.926234	3.886926	.1541461	8.303719	.7866416	11.27107
#1	.0207657	.1921665	.3331071	.0135724	.2151310	.0087948
#2	.0212733	.2032993	.3328297	.0120437	.2174177	.0103096
#3	.0196910	.2072182	.3321133	.0141820	.2184699	.0083403

Elem	Sr4077
Units	ppm
Avg	.2227012
Stddev	.0005736
%RSD	.2575893
#1	.2220452
#2	.2231088
#3	.2229495

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	988.3481	29223.10	5642.005	873.5442	1757.736
Stddev	1.5257	18.96	31.392	1.3684	4.938
%RSD	.1543678	.0648878	.5563894	.1566503	.2809344
#1	988.0264	29201.21	5665.004	874.8257	1754.374
#2	987.0089	29234.69	5606.242	872.1029	1755.429
#3	990.0090	29233.39	5654.769	873.7039	1763.406

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165171BL Acquired: 12/02/2024 17:34:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS171 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0054415	.0031272	-.003665	.0024195	.0029007	.0049160
Stddev	.0030562	.0064586	.003915	.0090714	.0012812	.0049216
%RSD	56.16364	206.5306	106.8197	374.9265	44.16766	100.1132
#1	.0087347	-.002611	-.008185	-.007348	.0043535	.0010351
#2	.0048932	.010122	-.001378	.004028	.0019330	.0104517
#3	.0026966	.001871	-.001431	.010579	.0024154	.0032612

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000816	.0000961	-.000108	-.008669	.0004789	.0002330
Stddev	.000232	.0000583	.000089	.003223	.0009982	.0003383
%RSD	28.44045	60.70106	82.37820	37.17697	208.4210	145.2221
#1	-.000812	.0001248	-.000209	-.011552	.0010329	.0000724
#2	-.000586	.0001346	-.000050	-.009266	.0010773	.0006216
#3	-.001049	.0000290	-.000063	-.005190	-.000673	.0000048

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016689	-.003550	.0001872	-.005357	.0002780	.0006727
Stddev	.0010501	.006398	.0006462	.025546	.0005629	.0004203
%RSD	62.91906	180.2086	345.1247	476.9015	202.5187	62.47612
#1	.0011421	-.009171	-.000133	-.034784	.0002829	.0008994
#2	.0028781	.003411	.000931	.007581	.0008384	.0009310
#3	.0009865	-.004890	-.000236	.011133	-.000287	.0001878

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3248434	-.002231	-.000510	-.273427	-.001093	-.006612
Stddev	.2118105	.001851	.000750	.220327	.008007	.002038
%RSD	65.20387	82.95650	147.2613	80.57987	732.8294	30.81663
#1	.5448988	-.000790	-.001322	-.051171	.007927	-.005711
#2	.3072572	-.004319	-.000365	-.491774	-.007364	-.008945
#3	.1223743	-.001586	.000158	-.277337	-.003841	-.005181

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165171BL Acquired: 12/02/2024 17:34:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS171 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000022	.0033584	-.000469	-.001416	.0018288	F -.024054
Stddev	.000197	.0044150	.000498	.000958	.0006088	.001638
%RSD	914.0132	131.4631	106.2583	67.62060	33.29017	6.810502
#1	-.000154	-.000224	-.000002	-.002378	.0021279	-.022591
#2	.000205	.002008	-.000411	-.001408	.0022301	-.025824
#3	-.000116	.008291	-.000994	-.000463	.0011283	-.023746

Elem	Sr4077
Units	ppm
Avg	.0000040
Stddev	.0001050
%RSD	2607.097
#1	-.000115
#2	.000085
#3	.000042

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	985.1256	29349.16	5644.477	877.0609	1814.617
Stddev	13.3330	134.92	230.751	3.3298	24.126
%RSD	1.353435	.4597088	4.088083	.3796597	1.329534
#1	977.6606	29237.26	5541.457	878.3380	1801.481
#2	1000.519	29311.22	5908.793	873.2815	1842.460
#3	977.197	29498.98	5483.182	879.5631	1799.909

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165171BS Acquired: 12/02/2024 17:39:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS171 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0211864	.0542454	.0192693	.0666004	.1135897	.4466405
Stddev	.0021896	.0027329	.0037498	.0059005	.0028777	.0100191
%RSD	10.33490	5.037952	19.46009	8.859608	2.533406	2.243203
#1	.0235501	.0571293	.0235314	.0598095	.1155816	.4481775
#2	.0207814	.0539130	.0177993	.0704740	.1148969	.4359417
#3	.0192275	.0516940	.0164772	.0695177	.1102904	.4558022

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4392742	.0114972	.0110250	11.20980	.0247792	.1049058
Stddev	.0020036	.0001286	.0000266	.04195	.0011067	.0005505
%RSD	.4561050	1.118307	.2409583	.3742665	4.466405	.5247524
#1	.4370885	.0114189	.0110395	11.16336	.0239690	.1048995
#2	.4410237	.0116456	.0109943	11.24498	.0243284	.1043585
#3	.4397103	.0114272	.0110411	11.22106	.0260402	.1054594

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0548666	.2280424	.0361201	10.85195	.0899464	.0225484
Stddev	.0013506	.0028597	.0005242	.05615	.0008023	.0003692
%RSD	2.461537	1.254041	1.451129	.5173866	.8919759	1.637208
#1	.0560698	.2304328	.0355761	10.91152	.0906271	.0221376
#2	.0551244	.2288201	.0366218	10.84431	.0890618	.0226550
#3	.0534058	.2248742	.0361623	10.80001	.0901504	.0228525

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.97970	.1164797	.1386884	10.16643	.0184624	F -.006357
Stddev	.09972	.0057412	.0009754	.12894	.0020154	.000752
%RSD	.9081787	4.928927	.7032852	1.268319	10.91634	11.83696
#1	10.87626	.1100504	.1395142	10.05812	.0172891	-.005525
#2	10.98761	.1182945	.1376123	10.30906	.0207896	-.006989
#3	11.07522	.1210942	.1389386	10.13210	.0173085	-.006558

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165171BS Acquired: 12/02/2024 17:39:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS171 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0207135	.1985455	F .3346622	.0146301	.2202205	F .0065621
Stddev	.0004774	.0032070	.0007061	.0007466	.0013467	.0012117
%RSD	2.304665	1.615243	.2109769	5.103102	.6115398	18.46522
#1	.0207618	.2007191	.3338474	.0154915	.2205655	.0058888
#2	.0202137	.1948623	.3350456	.0142286	.2213612	.0058366
#3	.0211648	.2000551	.3350937	.0141701	.2187348	.0079610

Elem	Sr4077
Units	ppm
Avg	.2223722
Stddev	.0008383
%RSD	.3769925
#1	.2216258
#2	.2232792
#3	.2222117

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	989.0927	29445.86	5662.147	883.3980	1757.191
Stddev	5.6596	23.16	24.119	4.2285	11.875
%RSD	.5722024	.0786414	.4259696	.4786590	.6757821
#1	982.6290	29423.36	5680.674	878.5679	1744.647
#2	993.1590	29444.60	5634.875	886.4316	1768.259
#3	991.4902	29469.62	5670.891	885.1944	1758.666

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165167BL Acquired: 12/02/2024 17:43:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS167 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0044237	.0021160	-.001718	.0014755	-.002671	-.009664
Stddev	.0027810	.0020242	.000907	.0054469	.001798	.002116
%RSD	62.86503	95.66358	52.80989	369.1643	67.31363	21.89546
#1	.0013919	.0033724	-.000948	.0075748	-.003991	-.012011
#2	.0068560	-.000219	-.002718	-.002904	-.000623	-.007901
#3	.0050233	.003195	-.001487	-.000245	-.003398	-.009082

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001660	.0000148	-.000147	-.005937	.0000595	.0002363
Stddev	.000278	.0000641	.000041	.005097	.0007591	.0003830
%RSD	16.78174	432.7137	27.83347	85.86015	1274.961	162.0603
#1	-.001960	-.000052	-.000173	-.009521	-.000794	-.000132
#2	-.001607	.000076	-.000167	-.008189	.000657	.000208
#3	-.001411	.000021	-.000100	-.000101	.000316	.000633

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005556	-.012157	.0005101	-.020937	.0005092	.0003684
Stddev	.0011483	.012942	.0003218	.007116	.0002359	.0002295
%RSD	206.6906	106.4557	63.08405	33.98626	46.33053	62.29674
#1	.0006429	.002577	.0008714	-.013204	.0006703	.0006099
#2	-.000634	-.021684	.0002542	-.027209	.0006189	.0001530
#3	.001658	-.017364	.0004047	-.022397	.0002384	.0003425

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3618545	.0006343	-.000486	-.253192	.0015117	-.006075
Stddev	.2226119	.0042218	.000622	.071512	.0023586	.001534
%RSD	61.51973	665.6391	127.8893	28.24404	156.0198	25.24685
#1	.4439109	.0049228	-.000328	-.282167	.0017970	-.007846
#2	.1098616	-.003517	.000041	-.305669	-.000977	-.005159
#3	.5317910	.000497	-.001172	-.171740	.003715	-.005220

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165167BL Acquired: 12/02/2024 17:43:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS167 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000260	.0066258	.0002346	-.001458	.0012408	F -.025309
Stddev	.000179	.0065934	.0002681	.000285	.0007309	.000530
%RSD	68.89524	99.51071	114.2776	19.51360	58.90824	2.095034
#1	-.000135	.0142128	-.000052	-.001618	.0004035	-.025191
#2	-.000465	.0022836	.000276	-.001130	.0017512	-.024848
#3	-.000180	.0033810	.000480	-.001627	.0015678	-.025889

Elem	Sr4077
Units	ppm
Avg	-.000062
Stddev	.000154
%RSD	248.7795
#1	.000096
#2	-.000212
#3	-.000070

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	998.3797	29565.69	5653.176	880.8740	1831.807
Stddev	4.5234	119.14	11.431	7.3015	3.168
%RSD	.4530709	.4029754	.2022039	.8288912	.1729696
#1	994.7045	29433.22	5644.661	872.9570	1829.711
#2	997.0033	29599.78	5648.700	887.3429	1830.258
#3	1003.431	29664.08	5666.168	882.3221	1835.452

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165167BS Acquired: 12/02/2024 17:48:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS167 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0256142	.0507393	.0187383	.0669316	.1150869	.3972109
Stddev	.0068714	.0028205	.0014656	.0105400	.0012125	.0078688
%RSD	26.82645	5.558847	7.821536	15.74742	1.053581	1.981007
#1	.0278669	.0495759	.0187251	.0644404	.1164818	.3914906
#2	.0178992	.0539555	.0202105	.0578603	.1144938	.3939575
#3	.0310764	.0486866	.0172793	.0784940	.1142851	.4061847

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4476521	.0115618	.0111267	11.48568	.0242909	.1068403
Stddev	.0077241	.0001438	.0002128	.18920	.0008169	.0002042
%RSD	1.725469	1.243658	1.912461	1.647302	3.362812	.1911463
#1	.4490661	.0116099	.0108840	11.54382	.0239234	.1069934
#2	.4393186	.0114002	.0112813	11.27423	.0252269	.1069192
#3	.4545715	.0116755	.0112149	11.63899	.0237222	.1066085

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0575504	.2222316	.0376266	10.91263	.0911214	.0229991
Stddev	.0008170	.0136003	.0008683	.16411	.0004959	.0010452
%RSD	1.419577	6.119876	2.307646	1.503853	.5442602	4.544707
#1	.0575471	.2211342	.0378973	10.97440	.0916926	.0219649
#2	.0567351	.2092133	.0366552	10.72660	.0908010	.0229775
#3	.0583690	.2363474	.0383273	11.03690	.0908704	.0240550

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.40736	.1228034	.1405954	10.36051	.0182698	F -.005974
Stddev	.43264	.0010072	.0009448	.29685	.0028696	.001880
%RSD	3.792654	.8202127	.6719914	2.865236	15.70698	31.46162
#1	11.86696	.1239213	.1396921	10.52970	.0196337	-.005750
#2	11.00799	.1225225	.1415769	10.01774	.0202031	-.007955
#3	11.34712	.1219664	.1405171	10.53409	.0149726	-.004216

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165167BS Acquired: 12/02/2024 17:48:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS167 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0207674	.2118097	F .3356850	.0127808	.2204205	F .0051323
Stddev	.0005855	.0059556	.0058537	.0021735	.0049408	.0014860
%RSD	2.819425	2.811750	1.743798	17.00639	2.241539	28.95409
#1	.0211276	.2175255	.3370104	.0151803	.2211159	.0034484
#2	.0210829	.2122632	.3292823	.0109438	.2151688	.0056886
#3	.0200918	.2056403	.3407623	.0122182	.2249768	.0062598

Elem	Sr4077
Units	ppm
Avg	.2259732
Stddev	.0037015
%RSD	1.638022
#1	.2266133
#2	.2219935
#3	.2293129

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	994.2871	29427.80	5712.508	880.9428	1758.283
Stddev	2.5555	41.56	71.076	.8493	3.023
%RSD	.2570188	.1412151	1.244215	.0964108	.1719048
#1	991.8963	29474.01	5689.373	881.6235	1754.832
#2	993.9846	29393.50	5792.269	879.9910	1760.458
#3	996.9804	29415.90	5655.882	881.2138	1759.559

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165169BL Acquired: 12/02/2024 17:52:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS169 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0058743	-.002530	-.003280	-.001607	-.001632	.0035061
Stddev	.0024653	.001498	.002465	.006197	.000602	.0121858
%RSD	41.96758	59.21806	75.13471	385.6012	36.87527	347.5576
#1	.0060669	-.001289	-.000493	.004323	-.002142	-.010558
#2	.0033184	-.004195	-.004175	-.008040	-.001787	.010918
#3	.0082377	-.002107	-.005172	-.001105	-.000968	.010159

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000773	.0000845	-.000099	-.009496	-.000699	-.000242
Stddev	.000317	.0000813	.000121	.004258	.000146	.000244
%RSD	41.04567	96.25279	122.3007	44.84068	20.91287	100.7641
#1	-.001014	.0001558	.000026	-.006477	-.000841	-.000012
#2	-.000413	-.000004	-.000107	-.014367	-.000549	-.000498
#3	-.000890	.000102	-.000217	-.007645	-.000708	-.000217

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018422	-.012077	.0003111	.0067147	.0002069	.0004842
Stddev	.0014066	.015484	.0003406	.0375820	.0003901	.0003856
%RSD	76.35334	128.2033	109.4717	559.7015	188.5127	79.63440
#1	.0033427	.003817	.0002692	.0095439	.0005308	.0000947
#2	.0016303	-.027115	.0006707	.0428020	.0003160	.0008657
#3	.0005536	-.012934	-.000007	-.032202	-.000226	.0004921

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4104366	-.006135	-.000122	-.353905	-.000206	-.008321
Stddev	.1383811	.002327	.000671	.076901	.001393	.002958
%RSD	33.71558	37.92983	550.5333	21.72929	675.0743	35.54638
#1	.2798527	-.003777	-.000142	-.431407	.001029	-.005045
#2	.3959778	-.008430	-.000782	-.277619	-.001715	-.010795
#3	.5554795	-.006197	.000559	-.352689	.000067	-.009123

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165169BL Acquired: 12/02/2024 17:52:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS169 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000016	.0045933	.0000744	-.001554	-.000395	F -.027467
Stddev	.000461	.0043374	.0001986	.002776	.000874	.000813
%RSD	2862.085	94.43032	266.8248	178.5547	221.3844	2.959781
#1	.000474	.0001071	-.000064	-.004646	-.000966	-.026736
#2	-.000081	.0049079	.000302	-.000741	.000611	-.028343
#3	-.000441	.0087648	-.000014	.000724	-.000830	-.027324

Elem	Sr4077
Units	ppm
Avg	.0000837
Stddev	.0000600
%RSD	71.67258
#1	.0000670
#2	.0001503
#3	.0000339

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	997.3002	29556.31	5648.746	878.6168	1821.374
Stddev	4.7903	73.56	23.812	3.7330	11.363
%RSD	.4803250	.2488679	.4215511	.4248719	.6238674
#1	998.2578	29565.49	5622.371	874.6014	1825.931
#2	1001.539	29478.59	5668.664	881.9819	1829.750
#3	992.103	29624.84	5655.204	879.2673	1808.440

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165169BSRE Acquired: 12/02/2024 17:57:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS169 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0211086	.0584183	.0201127	.0729307	.1166110	.4182289
Stddev	.0041474	.0038665	.0027717	.0047802	.0020027	.0183254
%RSD	19.64796	6.618713	13.78072	6.554508	1.717452	4.381668
#1	.0170534	.0539904	.0220703	.0753123	.1188431	.4143527
#2	.0209299	.0601368	.0169412	.0760523	.1160186	.4021516
#3	.0253424	.0611278	.0213265	.0674275	.1149712	.4381823

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4481122	.0115350	.0112846	11.44014	.0240765	.1076290
Stddev	.0078275	.0002505	.0000883	.16989	.0007836	.0009191
%RSD	1.746769	2.171329	.7824100	1.485034	3.254426	.8539696
#1	.4530660	.0117593	.0112397	11.52373	.0238732	.1073627
#2	.4390883	.0112648	.0113863	11.24465	.0234147	.1086518
#3	.4521825	.0115809	.0112277	11.55205	.0249417	.1068724

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0547808	.2192352	.0377897	10.79265	.0921635	.0240816
Stddev	.0017308	.0131813	.0000833	.20397	.0006651	.0006332
%RSD	3.159423	6.012405	.2205182	1.889939	.7216091	2.629272
#1	.0534536	.2134139	.0377863	10.83442	.0929254	.0243419
#2	.0541503	.2099667	.0377081	10.57102	.0916993	.0233597
#3	.0567384	.2343250	.0378747	10.97251	.0918658	.0245431

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.23749	.1182244	F .1704911	10.36178	.0200717	F -.006290
Stddev	.05399	.0012349	.0018799	.33776	.0057906	.000393
%RSD	.4804753	1.044511	1.102620	3.259626	28.84964	6.249230
#1	11.29166	.1168135	.1716284	10.63403	.0158040	-.006726
#2	11.23713	.1187507	.1715236	9.98381	.0177478	-.006182
#3	11.18367	.1191089	.1683212	10.46750	.0266632	-.005963

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165169BSRE Acquired: 12/02/2024 17:57:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS169 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0212608	.2094811	F .3334768	.0146033	.2196613	F .0042850
Stddev	.0000594	.0091429	.0019818	.0014045	.0038931	.0008957
%RSD	.2794493	4.364547	.5942738	9.617703	1.772331	20.90300
#1	.0212796	.2168119	.3330360	.0130138	.2211456	.0053156
#2	.0213085	.2123949	.3317525	.0151193	.2152444	.0036945
#3	.0211943	.1992364	.3356419	.0156768	.2225939	.0038449

Elem	Sr4077
Units	ppm
Avg	.2241874
Stddev	.0039619
%RSD	1.767209
#1	.2260374
#2	.2196389
#3	.2268859

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	990.6531	29224.00	5713.854	875.4792	1741.788
Stddev	3.1406	39.36	59.493	3.7308	5.949
%RSD	.3170212	.1346681	1.041198	.4261479	.3415425
#1	987.3017	29183.76	5679.366	876.0956	1736.462
#2	991.1293	29225.82	5782.550	871.4785	1740.694
#3	993.5285	29262.41	5679.646	878.8634	1748.208

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-10 Acquired: 12/02/2024 18:01:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHW8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1422919	-.012503	3.836556	-.014117	.0010922	70.53333	1.178644
Stddev	.0042168	.001373	.025553	.004493	.0012210	.13854	.002744
%RSD	2.963489	10.97814	.6660358	31.82306	111.7942	.1964184	.2328191
#1	.1445857	-.012967	3.856344	-.010160	.0024408	70.46346	1.177521
#2	.1374254	-.010959	3.845617	-.013190	.0000619	70.69289	1.181771
#3	.1448645	-.013584	3.807708	-.019001	.0007738	70.44364	1.176639

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053365	.0197185	278.2339	.1349042	.1378730	.4866050	192.8133
Stddev	.0000970	.0001323	.5521	.0008755	.0012681	.0005554	.1305
%RSD	1.816939	.6709624	.1984339	.6490029	.9197751	.1141477	.0676727
#1	.0054471	.0198712	277.7466	.1341308	.1393343	.4861154	192.8042
#2	.0052663	.0196468	278.8335	.1358548	.1370621	.4864910	192.9481
#3	.0052959	.0196376	278.1216	.1347270	.1372224	.4872087	192.6876

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.60659	61.19184	.2493655	-.013322	1.992900	.1862987	1.594932
Stddev	.02723	.18612	.0025000	.000192	.080700	.0030328	.003345
%RSD	.2567134	.3041639	1.002539	1.444918	4.049395	1.627932	.2097179
#1	10.58362	61.22535	.2515420	-.013479	2.072380	.1831972	1.598003
#2	10.63667	61.35893	.2499196	-.013380	1.911032	.1892578	1.595425
#3	10.59947	60.99124	.2466350	-.013108	1.995289	.1864412	1.591368

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.995729	8.778076	.0351553	.0028108	2.956060	5.438023	.3456239
Stddev	.018559	.050727	.0035459	.0002503	.001242	.019672	.0045546
%RSD	.2321115	.5778875	10.08636	8.904200	.0420200	.3617576	1.317799
#1	8.005731	8.805028	.0374917	.0030560	2.955998	5.433112	.3494731
#2	8.007142	8.809638	.0368990	.0025557	2.957333	5.459686	.3468028
#3	7.974315	8.719561	.0310752	.0028207	2.954851	5.421272	.3405957

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-10 Acquired: 12/02/2024 18:01:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHW8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.277082	.0768879	.3726768
Stddev	.002441	.0003731	.0007623
%RSD	.1911658	.4853032	.2045372
#1	1.275865	.0773184	.3724615
#2	1.279893	.0766864	.3735236
#3	1.275488	.0766588	.3720454

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1112.184	33468.24	6790.095	978.4989	1523.236
Stddev	6.124	60.06	25.740	2.2911	9.707
%RSD	.5506235	.1794644	.3790783	.2341451	.6372318
#1	1107.055	33534.77	6804.361	978.3313	1516.545
#2	1110.533	33418.02	6760.381	976.2961	1518.793
#3	1118.964	33451.92	6805.543	980.8691	1534.368

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-11 Acquired: 12/02/2024 18:18:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHW8D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1428243	-.010869	3.825120	-.020292	.0017331	70.59770	1.186672
Stddev	.0129576	.006718	.069442	.001384	.0033977	.10717	.005133
%RSD	9.072424	61.80702	1.815425	6.818931	196.0402	.1518085	.4325615
#1	.1404540	-.005887	3.745270	-.021397	-.000397	70.71413	1.191462
#2	.1568034	-.008211	3.871382	-.018740	.005651	70.50316	1.181254
#3	.1312154	-.018509	3.858710	-.020739	-.000055	70.57582	1.187299

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053538	.0196413	279.0816	.1349029	.1376909	.4859157	192.0791
Stddev	.0001247	.0006499	1.1691	.0007473	.0023666	.0018262	.1882
%RSD	2.328827	3.308835	.4189131	.5539457	1.718753	.3758191	.0979992
#1	.0054975	.0188932	279.3152	.1354871	.1351060	.4869547	192.2927
#2	.0052897	.0199639	277.8134	.1340608	.1397509	.4838071	191.9376
#3	.0052742	.0200667	280.1164	.1351607	.1382160	.4869852	192.0071

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.65840	60.89189	.2501317	-.012923	2.005563	.1926933	1.584304
Stddev	.04858	.16022	.0044812	.000239	.113005	.0029199	.007768
%RSD	.4558251	.2631302	1.791553	1.853036	5.634581	1.515317	.4902811
#1	10.66117	61.06975	.2449869	-.012728	2.073888	.1931672	1.581121
#2	10.60849	60.84709	.2522253	-.012850	1.875125	.1895655	1.593157
#3	10.70554	60.75884	.2531830	-.013190	2.067675	.1953474	1.578634

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.147773	8.744520	.0378610	.0029439	2.968259	5.379787	.3485247
Stddev	.059064	.163552	.0013875	.0002806	.063199	.025323	.0063843
%RSD	.7249127	1.870336	3.664801	9.532734	2.129149	.4707096	1.831803
#1	8.212836	8.556397	.0364483	.0029970	2.897015	5.364457	.3422216
#2	8.097530	8.852957	.0392219	.0031943	2.990198	5.365889	.3549872
#3	8.132954	8.824205	.0379127	.0026406	3.017565	5.409016	.3483653

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-11 Acquired: 12/02/2024 18:18:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHW8D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.272213	.0852041	.3732008
Stddev	.004613	.0003271	.0009688
%RSD	.3625789	.3838691	.2595948
#1	1.277395	.0854078	.3742694
#2	1.268555	.0848268	.3723798
#3	1.270688	.0853775	.3729533

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1113.187	33246.10	6800.995	980.4138	1522.539
Stddev	8.595	66.98	27.132	3.2230	22.655
%RSD	.7721000	.2014612	.3989356	.3287370	1.487974
#1	1123.073	33182.48	6814.867	979.6778	1548.577
#2	1109.001	33239.85	6818.385	977.6224	1507.338
#3	1107.487	33315.99	6769.732	983.9411	1511.703

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-10LX5 Acquired: 12/02/2024 18:23:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHW8L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0308194	.0018742	.8017881	-.005384	.0015090	16.42751	.2788744
Stddev	.0029609	.0027305	.0018735	.011671	.0012539	.04336	.0009246
%RSD	9.607316	145.6875	.2336636	216.7774	83.09573	.2639529	.3315602
#1	.0342377	-.000398	.8033258	.007989	.0014160	16.46770	.2799011
#2	.0290491	.001118	.7997015	-.013511	.0003042	16.43326	.2786148
#3	.0291715	.004903	.8023372	-.010629	.0028068	16.38155	.2781074

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013078	.0035093	66.74340	.0323738	.0264185	.1123997	46.53984
Stddev	.0000518	.0001244	.06935	.0005361	.0006469	.0023298	.15712
%RSD	3.957614	3.545545	.1038997	1.656056	2.448602	2.072756	.3375928
#1	.0013060	.0033707	66.82050	.0321665	.0262557	.1097110	46.68290
#2	.0013605	.0036114	66.72358	.0319723	.0271313	.1136669	46.37169
#3	.0012570	.0035457	66.68612	.0329827	.0258687	.1138213	46.56491

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.607237	14.39973	.0517273	-.001290	.6090465	.0503048	.3858296
Stddev	.001558	.08708	.0012262	.000480	.4476351	.0070680	.0035614
%RSD	.0597377	.6047318	2.370519	37.20475	73.49769	14.05034	.9230620
#1	2.608929	14.48979	.0504780	-.000773	1.102534	.0427163	.3894323
#2	2.606917	14.39343	.0529290	-.001722	.229149	.0567005	.3857458
#3	2.605863	14.31597	.0517748	-.001376	.495457	.0514977	.3823108

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.752018	1.741244	.0052284	.0001367	.5912869	1.331744	.0688464
Stddev	.002711	.014479	.0003420	.0005860	.0095567	.002902	.0029785
%RSD	.1547585	.8315429	6.541897	428.6602	1.616259	.2179152	4.326268
#1	1.749225	1.728097	.0049115	-.000215	.5803614	1.330179	.0667804
#2	1.754640	1.756762	.0055910	.000813	.5980932	1.335093	.0722606
#3	1.752188	1.738872	.0051827	-.000189	.5954063	1.329960	.0674982

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-10LX5 Acquired: 12/02/2024 18:23:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHW8L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3019905	.0029708	.0884407
Stddev	.0009376	.0002147	.0002698
%RSD	.3104715	7.227399	.3050210
#1	.3025835	.0027579	.0887466
#2	.3024783	.0029673	.0882369
#3	.3009095	.0031873	.0883386

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1023.277	30254.36	5933.959	895.7901	1684.584
Stddev	5.746	98.90	26.656	7.6014	11.270
%RSD	.5615001	.3269089	.4492194	.8485706	.6690074
#1	1027.509	30142.16	5908.782	887.5350	1693.914
#2	1016.736	30328.88	5931.214	897.3348	1672.062
#3	1025.588	30292.06	5961.882	902.5005	1687.775

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-12 Acquired: 12/02/2024 18:27:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHW8S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2233597	.0785530	3.910703	.1396785	.1580005	72.15838	4.651782
Stddev	.0069856	.0013992	.061919	.0019880	.0061101	2.02698	.131922
%RSD	3.127487	1.781204	1.583333	1.423242	3.867141	2.809078	2.835937
#1	.2186997	.0801627	3.839964	.1419280	.1516694	73.24886	4.718648
#2	.2313916	.0778672	3.955071	.1381576	.1638626	73.40669	4.736881
#3	.2199879	.0776289	3.937075	.1389500	.1584695	69.81959	4.499816

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0871852	.1229883	272.2556	.5011211	1.169065	.8727647	188.9566
Stddev	.0017205	.0020562	7.3603	.0019448	.020955	.0276297	4.9263
%RSD	1.973368	1.671828	2.703441	.3880995	1.792482	3.165770	2.607097
#1	.0880329	.1206387	275.8234	.5033011	1.145522	.8847045	191.5479
#2	.0883174	.1244583	277.1520	.4995639	1.185675	.8924167	192.0464
#3	.0852054	.1238681	263.7913	.5004982	1.175998	.8411729	183.2755

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.26077	59.28739	1.286953	.0710137	1.909745	1.070106	2.306292
Stddev	.30657	1.59508	.019630	.0005413	.253583	.022111	.013354
%RSD	2.722443	2.690428	1.525278	.7622268	13.27839	2.066207	.5790277
#1	11.41184	60.20378	1.265733	.0713029	2.018020	1.082597	2.315442
#2	11.46249	60.21283	1.304464	.0703893	2.091217	1.083144	2.312466
#3	10.90799	57.44555	1.290661	.0713491	1.619998	1.044577	2.290968

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.835525	8.859688	.0303806	.0017293	3.027680	5.350905	.3497913
Stddev	.301948	.140257	.0053736	.0005025	.053515	.090990	.0064196
%RSD	3.853580	1.583090	17.68768	29.05986	1.767531	1.700455	1.835268
#1	7.978071	8.701339	.0319080	.0022967	2.969566	5.406866	.3427062
#2	8.039812	8.968294	.0348253	.0015512	3.074929	5.399935	.3552213
#3	7.488692	8.909430	.0244087	.0013402	3.038543	5.245916	.3514465

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-12 Acquired: 12/02/2024 18:27:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHW8S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.246210	.0779980	.3648605
Stddev	.031877	.0032939	.0102466
%RSD	2.557945	4.223101	2.808357
#1	1.259328	.0794496	.3701763
#2	1.269435	.0803168	.3713567
#3	1.209866	.0742276	.3530484

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1098.002	33203.84	6859.127	971.0600	1493.946
Stddev	10.197	159.91	132.752	8.5038	19.948
%RSD	.9286787	.4815861	1.935407	.8757187	1.335244
#1	1108.415	33031.76	6785.914	968.0128	1515.635
#2	1088.035	33231.93	6779.101	964.4997	1476.386
#3	1097.556	33347.85	7012.365	980.6675	1489.816

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-20 Acquired: 12/02/2024 18:31:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1596951	-.003667	8.229097	-.004280	.0073362	62.10957
Stddev	.0034412	.003469	.074784	.010453	.0024940	.46208
%RSD	2.154841	94.59815	.9087750	244.2241	33.99545	.7439778
#1	.1591294	.000307	8.244396	-.012064	.0075635	62.37434
#2	.1633840	-.005222	8.295049	.007601	.0047364	62.37835
#3	.1565718	-.006086	8.147847	-.008378	.0097088	61.57601

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.192766	.0048372	.0169028	38.24252	.2051198	.1084252
Stddev	.017522	.0002105	.0002737	.24458	.0007481	.0012044
%RSD	.7990858	4.352480	1.619415	.6395541	.3647351	1.110827
#1	2.201420	.0048762	.0165970	38.37570	.2058379	.1094200
#2	2.204277	.0050254	.0171250	38.39162	.2043448	.1087695
#3	2.172600	.0046098	.0169863	37.96025	.2051768	.1070861

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5867728	160.0677	14.10635	14.53730	.2276946	-.008972
Stddev	.0034699	1.2538	.10788	.07606	.0025116	.000230
%RSD	.5913523	.7832790	.7647302	.5232213	1.103068	2.567220
#1	.5871634	160.7762	14.16091	14.55482	.2280201	-.009181
#2	.5900309	160.8067	14.17604	14.60307	.2300276	-.009011
#3	.5831241	158.6200	13.98209	14.45401	.2250360	-.008725

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.517484	.1867080	2.353887	7.490690	F 14.68206	.0258278
Stddev	.028487	.0003021	.015842	.095303	.11798	.0027323
%RSD	1.877227	.1617874	.6730315	1.272289	.8035508	10.57893
#1	1.487446	.1870416	2.371516	7.382916	14.68092	.0281639
#2	1.520894	.1864530	2.349299	7.563848	14.80060	.0264963
#3	1.544112	.1866295	2.340844	7.525306	14.56465	.0228233

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-20 Acquired: 12/02/2024 18:31:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0125623	3.604401	5.874896	.3664152	1.320512	.0451842
Stddev	.0006501	.029211	.020732	.0024357	.010257	.0019075
%RSD	5.174712	.8104239	.3528983	.6647378	.7767374	4.221493
#1	.0118136	3.604280	5.878435	.3656994	1.323459	.0452823
#2	.0129836	3.633673	5.893630	.3691285	1.328973	.0470407
#3	.0128895	3.575251	5.852621	.3644175	1.309104	.0432296

Elem	Sr4077
Units	ppm
Avg	.1613661
Stddev	.0012287
%RSD	.7614497
#1	.1619674
#2	.1621783
#3	.1599525

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1149.022	34351.92	6797.194	1002.869	1667.829
Stddev	6.136	106.22	28.860	8.305	12.343
%RSD	.5340556	.3092226	.4245825	.8281224	.7400685
#1	1146.848	34231.27	6767.754	993.379	1665.274
#2	1144.269	34431.40	6798.392	1006.419	1656.964
#3	1155.950	34393.07	6825.436	1008.809	1681.250

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCV072 Acquired: 12/02/2024 18:40:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV072 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.428099	4.880174	24.91362	4.785274	4.642085	390.7166
Stddev	.053436	.033449	.15928	.025232	.028990	2.0354
%RSD	.9844321	.6853995	.6393165	.5272897	.6245041	.5209350
#1	5.489714	4.917835	25.09002	4.801609	4.643459	388.4346
#2	5.394459	4.853926	24.78034	4.756213	4.612432	391.3708
#3	5.400123	4.868760	24.87049	4.798001	4.670364	392.3444

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.02008	.4876336	2.639594	401.3631	15.08986	2.503323
Stddev	.10172	.0034860	.018717	2.4605	.54905	.015770
%RSD	1.015195	.7148802	.7090854	.6130368	3.638565	.6299810
#1	10.13040	.4899432	2.658147	404.1811	14.85626	2.516287
#2	9.99986	.4893338	2.620718	400.2674	15.71708	2.485766
#3	9.92999	.4836237	2.639918	399.6407	14.69623	2.507917

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.53854	396.7179	14.69380	410.5356	2.484223	1.251352
Stddev	.08574	2.8293	.08042	2.1386	.015094	.048974
%RSD	.5897298	.7131669	.5472972	.5209373	.6075774	3.913701
#1	14.63497	399.9354	14.78620	412.9889	2.498273	1.229135
#2	14.50978	395.5994	14.65560	409.5535	2.468267	1.307497
#3	14.47089	394.6189	14.63960	409.0645	2.486130	1.217424

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	391.9384	2.442577	14.08142	150.3260	4.747622	F 3.958282
Stddev	2.7169	.015155	.62266	.9640	.030032	.028767
%RSD	.6931875	.6204518	4.421848	.6412977	.6325615	.7267627
#1	395.0543	2.458693	13.77317	151.4302	4.778255	3.984359
#2	390.6966	2.428613	14.79807	149.8962	4.718230	3.963065
#3	390.0644	2.440425	13.67301	149.6516	4.746379	3.927423

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCV072 Acquired: 12/02/2024 18:40:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV072 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.702079	4.939255	F 3.317957	5.012079	4.888440	4.800623
Stddev	.033613	.024726	.015895	.028178	.029870	.024200
%RSD	.7148638	.5006054	.4790466	.5621993	.6110283	.5041011
#1	4.719068	4.961710	3.325812	5.041567	4.921675	4.827770
#2	4.663362	4.912756	3.328396	4.985425	4.879808	4.792787
#3	4.723807	4.943299	3.299665	5.009247	4.863836	4.781313

Elem	Sr4077
Units	ppm
Avg	4.934318
Stddev	.018899
%RSD	.3830070
#1	4.951896
#2	4.936729
#3	4.914330

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	808.9219	25967.47	5414.979	672.9847	1306.044
Stddev	3.5577	845.03	17.725	27.1402	7.617
%RSD	.4398071	3.254184	.3273300	4.032810	.5831996
#1	806.0960	26342.02	5394.516	685.7292	1297.563
#2	812.9171	24999.90	5424.890	641.8178	1312.302
#3	807.7526	26560.48	5425.532	691.4070	1308.265

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCB072 Acquired: 12/02/2024 18:45:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB072 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0037454	.0021896	-.002656	.0019967	.0029620	.1040408	.0007174
Stddev	.0070212	.0024775	.004856	.0008079	.0016866	.0164480	.0003640
%RSD	187.4633	113.1462	182.8159	40.46083	56.94117	15.80922	50.74314
#1	.0117929	-.000648	-.001668	.0023924	.0044578	.0851914	.0011038
#2	-.001130	.003925	-.007930	.0010673	.0032942	.1114497	.0003809
#3	.000573	.003291	.001629	.0025304	.0011340	.1154812	.0006674

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000091	-.000111	-.003254	-.000238	-.000009	.0022855	-.000111
Stddev	.000058	.000098	.010513	.001059	.000540	.0007945	.013020
%RSD	63.92353	88.86303	323.0267	445.8044	5839.859	34.76179	11767.99
#1	-.000141	-.000128	-.014086	-.000670	.000490	.0028189	-.010309
#2	-.000104	-.000005	-.002583	.000969	-.000582	.0013724	-.004578
#3	-.000027	-.000199	.006907	-.001012	.000064	.0026650	.014555

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011243	-.007415	.0006571	.0009063	.2811537	-.002165	.0010026
Stddev	.0006585	.000382	.0006855	.0012709	.3832059	.003318	.0002551
%RSD	58.56655	5.150665	104.3210	140.2380	136.2976	153.2925	25.44424
#1	.0013218	-.007273	.0002436	.0012986	-.047380	-.005950	.0008993
#2	.0016615	-.007848	.0002793	-.000515	.188718	.000242	.0008154
#3	.0003897	-.007125	.0014483	.001935	.702123	-.000786	.0012932

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1069722	.0020827	.0024745	-.000121	.0017032	.0004412	-.000791
Stddev	.1524184	.0040691	.0005319	.000692	.0011013	.0004643	.001737
%RSD	142.4841	195.3785	21.49672	574.4482	64.66024	105.2362	219.5619
#1	-.062030	.0059087	.0030791	-.000303	.0025360	-.000082	.001112
#2	.234019	-.002192	.0020786	.000645	.0004545	.000803	-.001195
#3	.148928	.002532	.0022657	-.000703	.0021190	.000604	-.002291

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCB072 Acquired: 12/02/2024 18:45:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB072 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000372	-.000660	.0001229
Stddev	.000852	.000835	.0000430
%RSD	228.6558	126.4333	34.96648
#1	-.000676	-.000701	.0001164
#2	.000589	.000194	.0000835
#3	-.001031	-.001474	.0001687

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1002.890	29646.22	5478.954	880.6765	1840.370
Stddev	2.835	519.65	88.840	10.5927	5.256
%RSD	.2827271	1.752837	1.621474	1.202794	.2856058
#1	1003.970	29488.84	5508.507	874.2760	1842.638
#2	1005.028	30226.37	5379.104	892.9035	1844.111
#3	999.674	29223.45	5549.250	874.8501	1834.360

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4917-03 Acquired: 12/02/2024 18:50:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MX1009 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6175292	.6292024	.5620538	.3121504	.2218987	2.403097	.8517112
Stddev	.0081004	.0087748	.0028592	.0050339	.0040938	.011753	.0048622
%RSD	1.311744	1.394588	.5087144	1.612661	1.844876	.4890860	.5708705
#1	.6268223	.6381347	.5589071	.3070213	.2198839	2.411833	.8548314
#2	.6119633	.6288785	.5627618	.3123465	.2192029	2.389734	.8461089
#3	.6138020	.6205941	.5644925	.3170834	.2266094	2.407723	.8541933

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4164189	.2537214	-.002901	.3709745	.1164784	.1605269	.7898155
Stddev	.0017269	.0005841	.014722	.0050409	.0004014	.0016407	.0269659
%RSD	.4147032	.2302013	507.5755	1.358836	.3445776	1.022072	3.414201
#1	.4172663	.2541587	.013185	.3745468	.1169057	.1609978	.7591329
#2	.4175584	.2530581	-.015706	.3731683	.1161094	.1587022	.8097494
#3	.4144320	.2539474	-.006181	.3652084	.1164201	.1618807	.8005642

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4236234	-.008786	1.534871	.6131900	.4443254	.4112683	.3435506
Stddev	.0012618	.041542	.002593	.0104627	.1215734	.0023839	.0068304
%RSD	.2978497	472.8367	.1689159	1.706269	27.36135	.5796556	1.988169
#1	.4240616	-.055502	1.536946	.6174757	.4730424	.4129216	.3445634
#2	.4222010	.024005	1.531965	.6208293	.3109644	.4085355	.3498180
#3	.4246076	.005140	1.535704	.6012649	.5489694	.4123476	.3362704

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.627612	-.000356	1.618613	.4723189	.0061240	.0470853	.0001217
Stddev	.099546	.004495	.014175	.0005196	.0030961	.0004806	.0021674
%RSD	15.86102	1262.347	.8757495	.1100097	50.55630	1.020688	1780.924
#1	-.589728	.004542	1.627518	.4724583	.0067497	.0473591	-.001740
#2	-.552570	-.001320	1.626053	.4717438	.0088594	.0473663	-.000397
#3	-.740537	-.004291	1.602267	.4727546	.0027629	.0465303	.002501

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4917-03 Acquired: 12/02/2024 18:50:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MX1009 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0006295	-.018866	.3836942
Stddev	.0020117	.000610	.0015912
%RSD	319.5583	3.235812	.4147073
#1	.0029439	-.018825	.3851891
#2	-.000699	-.018277	.3820216
#3	-.000356	-.019496	.3838720

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1015.065	30323.03	5724.379	900.3319	1857.416
Stddev	2.220	390.32	11.293	11.2692	4.544
%RSD	.2187300	1.287193	.1972819	1.251675	.2446663
#1	1013.514	30126.36	5711.958	897.6114	1854.538
#2	1017.608	30070.17	5734.027	890.6719	1862.655
#3	1014.072	30772.56	5727.153	912.7123	1855.055

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4917-01 Acquired: 12/02/2024 18:54:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MX1007 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.272203	2.335626	1.974357	1.051109	.6306557	73.67065
Stddev	.021038	.017541	.004729	.006099	.0034288	.05688
%RSD	.9259072	.7510181	.2395010	.5802072	.5436925	.0772047
#1	2.249044	2.337275	1.976024	1.048776	.6305205	73.69013
#2	2.277428	2.317319	1.969020	1.058030	.6341501	73.71523
#3	2.290135	2.352284	1.978026	1.046522	.6272964	73.60659

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.497357	F 1.983624	1.430332	66.33510	3.139273	2.269584
Stddev	.016471	.004856	.003517	.20771	.002364	.004432
%RSD	.3662414	.2448062	.2458757	.3131258	.0752892	.1952594
#1	4.506271	1.981064	1.428538	66.51964	3.141802	2.265581
#2	4.507450	1.980583	1.428074	66.37551	3.137119	2.268826
#3	4.478350	1.989224	1.434384	66.11015	3.138899	2.274346

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.434984	93.53656	5.201417	21.19554	1.492100	.5740294
Stddev	.001737	.17338	.020216	.11313	.003008	.0010559
%RSD	.1210768	.1853637	.3886611	.5337464	.2015634	.1839510
#1	1.435979	93.45092	5.219368	21.21470	1.488894	.5751713
#2	1.432978	93.73610	5.205366	21.29787	1.492545	.5738289
#3	1.435995	93.42266	5.179519	21.07406	1.494860	.5730882

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.170765	1.496944	4.070393	13.45916	2.712170	2.407167
Stddev	.314631	.010753	.016811	.09454	.007327	.003041
%RSD	5.098729	.7182999	.4130029	.7024334	.2701549	.1263418
#1	5.962326	1.497143	4.076061	13.49452	2.708837	2.409342
#2	6.017288	1.486093	4.083638	13.53093	2.707102	2.408468
#3	6.532681	1.507595	4.051481	13.35204	2.720571	2.403692

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4917-01 Acquired: 12/02/2024 18:54:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MX1007 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5387031	.7614920	8.157178	1.247967	3.031570	1.350209
Stddev	.0012877	.0203427	.028048	.006637	.002781	.004455
%RSD	.2390301	2.671420	.3438392	.5317908	.0917341	.3299764
#1	.5385352	.7556902	8.137508	1.252955	3.032394	1.352113
#2	.5375076	.7841052	8.144731	1.240435	3.028470	1.353396
#3	.5400664	.7446805	8.189295	1.250511	3.033846	1.345118

Elem	Sr4077
Units	ppm
Avg	2.759011
Stddev	.008094
%RSD	.2933814
#1	2.763727
#2	2.763642
#3	2.749665

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1089.038	32630.94	6416.614	952.2724	1688.163
Stddev	3.414	24.18	13.656	3.5087	4.707
%RSD	.3135185	.0740897	.2128232	.3684594	.2788454
#1	1092.209	32605.05	6415.231	950.2994	1691.853
#2	1089.483	32652.92	6430.908	950.1943	1689.774
#3	1085.424	32634.83	6403.701	956.3235	1682.861

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4917-01DLX2 Acquired: 12/02/2024 19:02:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MX1007 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.129291	1.215542	1.006422	.5697760	.3352305	38.92993
Stddev	.007874	.008045	.006629	.0082797	.0039255	.05877
%RSD	.6972810	.6618046	.6586907	1.453145	1.170975	.1509713
#1	1.124323	1.208894	.998911	.5793244	.3307516	38.86676
#2	1.125180	1.213247	1.008898	.5654191	.3368671	38.98299
#3	1.138370	1.224485	1.011457	.5645845	.3380729	38.94004

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.400495	F 1.046801	.7244951	35.45796	1.668734	1.143888
Stddev	.003353	.001210	.0028895	.09860	.045054	.006342
%RSD	.1396607	.1155671	.3988305	.2780824	2.699885	.5544217
#1	2.402204	1.046612	.7213799	35.56838	1.680922	1.136614
#2	2.402649	1.045698	.7250178	35.42680	1.618840	1.146795
#3	2.396633	1.048095	.7270876	35.37870	1.706440	1.148255

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7717054	50.33989	2.786441	11.27113	.7558171	.3003422
Stddev	.0035955	.14412	.006375	.09172	.0027570	.0095616
%RSD	.4659140	.2862993	.2288004	.8137826	.3647751	3.183553
#1	.7758020	50.19179	2.793257	11.16572	.7530533	.3036621
#2	.7690732	50.47967	2.780625	11.33281	.7558307	.2895632
#3	.7702409	50.34820	2.785440	11.31484	.7585673	.3078013

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.291297	.8001739	2.149449	6.827152	1.352504	1.302978
Stddev	.396964	.0024148	.043371	.019450	.002122	.007168
%RSD	12.06102	.3017885	2.017761	.2848956	.1569067	.5500920
#1	3.475708	.8029579	2.158708	6.804715	1.350865	1.297973
#2	2.835671	.7986469	2.102197	6.839236	1.351746	1.299773
#3	3.562513	.7989168	2.187443	6.837505	1.354901	1.311189

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4917-01DLX2 Acquired: 12/02/2024 19:02:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MX1007 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2864210	.3727935	4.355040	.6271899	1.628075	.7117451
Stddev	.0009725	.0080341	.003278	.0032425	.002920	.0013296
%RSD	.3395284	2.155097	.0752802	.5169833	.1793300	.1868042
#1	.2857151	.3635975	4.352337	.6309257	1.624901	.7108797
#2	.2860175	.3784507	4.358687	.6255376	1.630646	.7132760
#3	.2875302	.3763323	4.354097	.6251064	1.628679	.7110796

Elem	Sr4077
Units	ppm
Avg	1.468516
Stddev	.000581
%RSD	.0395449
#1	1.468486
#2	1.469111
#3	1.467951

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1043.283	31357.90	6064.336	923.1376	1719.780
Stddev	2.852	703.47	13.446	16.1924	7.192
%RSD	.2734133	2.243351	.2217185	1.754056	.4181795
#1	1044.974	31213.35	6071.756	922.0873	1727.089
#2	1044.886	32122.42	6048.815	939.8296	1719.539
#3	1039.990	30737.94	6072.436	907.4960	1712.712

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4917-01DL2X5 Acquired: 12/02/2024 19:16:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MX1007 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4536769	.4988882	.3994547	.2435320	.1358078	16.20456	.9813542
Stddev	.0139113	.0041876	.0033487	.0024949	.0020471	.01215	.0012496
%RSD	3.066335	.8393845	.8383176	1.024451	1.507323	.0750029	.1273381
#1	.4694441	.5014100	.4018298	.2459428	.1342928	16.21827	.9800861
#2	.4431345	.5012004	.3956246	.2409608	.1381367	16.19511	.9825845
#3	.4484522	.4940543	.4009097	.2436923	.1349941	16.20028	.9813919

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4311247	.2901586	14.83639	.7037773	.4587056	.3178790	20.90361
Stddev	.0021166	.0007340	.02384	.0025322	.0013960	.0021664	.03819
%RSD	.4909495	.2529750	.1606909	.3598009	.3043280	.6815204	.1827107
#1	.4313745	.2893111	14.80943	.7018822	.4582397	.3195423	20.93461
#2	.4288943	.2905959	14.84506	.7066532	.4576021	.3186656	20.86095
#3	.4331054	.2905687	14.85468	.7027965	.4602749	.3154292	20.91528

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.184484	4.695275	.3065797	.1257390	1.561127	.3383232	.8947657
Stddev	.002470	.044355	.0007201	.0005035	.332180	.0060891	.0031798
%RSD	.2085047	.9446803	.2348901	.4003932	21.27822	1.799801	.3553820
#1	1.183243	4.657188	.3059343	.1251791	1.819249	.3344801	.8917200
#2	1.187329	4.743973	.3064484	.1258835	1.677776	.3453438	.8945124
#3	1.182882	4.684664	.3073565	.1261544	1.186356	.3351457	.8980646

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.390023	.5380841	.5353943	.1177084	.1381073	1.710085	.2503677
Stddev	.060225	.0034675	.0075752	.0003782	.0009243	.010601	.0005691
%RSD	2.519852	.6444108	1.414888	.3213312	.6692940	.6198946	.2272978
#1	2.434268	.5377202	.5365908	.1178127	.1391105	1.717963	.2498496
#2	2.414364	.5417192	.5272920	.1172889	.1372901	1.698033	.2502769
#3	2.321437	.5348130	.5423001	.1180235	.1379212	1.714261	.2509768

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4917-01DL2X5 Acquired: 12/02/2024 19:16:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MX1007 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6710937	.2812759	.6122179
Stddev	.0020637	.0003544	.0009373
%RSD	.3075169	.1260113	.1530962
#1	.6731114	.2815075	.6129411
#2	.6689868	.2814524	.6111590
#3	.6711829	.2808679	.6125537

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1023.338	30410.35	5873.889	905.8962	1766.573
Stddev	2.276	77.10	10.493	1.8816	1.801
%RSD	.2223911	.2535285	.1786308	.2077021	.1019399
#1	1022.104	30430.74	5863.380	907.6781	1766.239
#2	1025.965	30325.11	5884.365	906.0816	1768.517
#3	1021.947	30475.20	5873.922	903.9287	1764.962

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165240BL Acquired: 12/02/2024 19:25:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBW240 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053087	.0013031	-.004589	-.001241	.0008882	-.008864
Stddev	.0043290	.0057986	.002928	.002339	.0027248	.008132
%RSD	81.54633	444.9694	63.80015	188.4535	306.7618	91.74626
#1	.0061099	.0063052	-.004245	-.003061	.0037320	-.010379
#2	.0091811	-.005052	-.007674	.001397	-.001699	-.000081
#3	.0006350	.002657	-.001848	-.002060	.000632	-.016132

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000994	.0000366	-.000057	-.017415	-.000149	.0003160
Stddev	.000606	.0001688	.000023	.007033	.000629	.0002407
%RSD	60.94873	460.7772	39.78690	40.38446	422.2688	76.18125
#1	-.000362	-.000157	-.000031	-.012738	.000562	.0002244
#2	-.001570	.000150	-.000068	-.025503	-.000373	.0005890
#3	-.001050	.000118	-.000073	-.014004	-.000636	.0001345

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009900	-.003868	.0000115	-.024718	.0003305	.0000948
Stddev	.0014176	.002643	.0004468	.019830	.0001787	.0001990
%RSD	143.1852	68.34611	3871.209	80.22350	54.06875	210.0351
#1	.0026269	-.003716	-.000485	-.044233	.0005355	-.000087
#2	.0001629	-.001304	.000381	-.004587	.0002479	.000307
#3	.0001803	-.006584	.000139	-.025335	.0002080	.000064

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.087027	-.003111	-.000687	-.547217	-.000215	-.003265
Stddev	.108698	.003269	.000361	.015514	.001506	.001014
%RSD	124.9014	105.0462	52.57211	2.835095	700.7799	31.05794
#1	-.113247	-.002100	-.000686	-.562991	.001007	-.003635
#2	.032383	-.006766	-.000327	-.531976	.000246	-.002118
#3	-.180216	-.000469	-.001050	-.546685	-.001898	-.004042

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165240BL Acquired: 12/02/2024 19:25:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBW240 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000940	.0045346	-.000684	.0002537	.0000328	F -.024120
Stddev	.0004842	.0064927	.000151	.0020621	.0006544	.001304
%RSD	514.8820	143.1814	22.06238	812.8899	1992.537	5.406921
#1	-.000370	.0057209	-.000536	.0026168	.0007690	-.022627
#2	.000056	-.002469	-.000679	-.000675	-.000188	-.025039
#3	.000596	.010352	-.000837	-.001181	-.000483	-.024694

Elem	Sr4077
Units	ppm
Avg	-.000028
Stddev	.000096
%RSD	346.6817
#1	.000074
#2	-.000117
#3	-.000040

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1004.974	29771.63	5665.195	889.2543	1841.118
Stddev	1.937	27.47	31.047	2.5449	5.125
%RSD	.1927640	.0922829	.5480237	.2861864	.2783636
#1	1004.295	29762.90	5631.011	886.4089	1836.849
#2	1007.160	29802.41	5691.639	891.3130	1846.802
#3	1003.468	29749.59	5672.936	890.0410	1839.703

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165240BS Acquired: 12/02/2024 19:29:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCSW240 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0183126	.0556665	.0180074	.0693346	.1130064	.4017392
Stddev	.0039433	.0050535	.0020081	.0061404	.0028960	.0131851
%RSD	21.53313	9.078147	11.15161	8.856230	2.562688	3.281996
#1	.0144621	.0501954	.0176203	.0712278	.1135663	.3913328
#2	.0223425	.0566447	.0201808	.0743054	.1098714	.4165667
#3	.0181333	.0601593	.0162210	.0624705	.1155816	.3973182

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4402716	.0115325	.0109151	11.31126	.0230348	.1039109
Stddev	.0008609	.0000926	.0000913	.04261	.0007894	.0003657
%RSD	.1955488	.8026600	.8365012	.3767123	3.427123	.3519363
#1	.4412436	.0116391	.0110156	11.34431	.0223462	.1038039
#2	.4399664	.0114731	.0108372	11.32630	.0228619	.1043181
#3	.4396049	.0114852	.0108926	11.26317	.0238964	.1036106

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0532436	.2140007	.0369071	10.64044	.0893833	.0232287
Stddev	.0016348	.0096490	.0002742	.00450	.0006867	.0003541
%RSD	3.070380	4.508846	.7428320	.0422864	.7682398	1.524423
#1	.0513564	.2246059	.0371286	10.64452	.0894931	.0235357
#2	.0542233	.2057400	.0366005	10.64118	.0886483	.0228413
#3	.0541511	.2116562	.0369921	10.63562	.0900085	.0233091

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.74354	.1162938	.1402736	9.912490	.0161917	F -.003679
Stddev	.19959	.0012494	.0016707	.110000	.0025084	.001146
%RSD	1.857807	1.074327	1.191021	1.109707	15.49174	31.13442
#1	10.94238	.1177327	.1408691	9.968098	.0155238	-.003818
#2	10.54320	.1154843	.1415650	9.785789	.0189664	-.004749
#3	10.74505	.1156644	.1383868	9.983584	.0140848	-.002471

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165240BS Acquired: 12/02/2024 19:29:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCSW240 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0203585	.2019134	F .3278068	.0134092	.2162400	F .0064288
Stddev	.0007070	.0101928	.0017941	.0003750	.0013700	.0006827
%RSD	3.473008	5.048122	.5472953	2.796624	.6335649	10.61890
#1	.0195424	.2034064	.3298688	.0137676	.2178051	.0062981
#2	.0207856	.2112774	.3269481	.0134404	.2152577	.0058209
#3	.0207475	.1910564	.3266035	.0130195	.2156572	.0071674

Elem	Sr4077
Units	ppm
Avg	.2208098
Stddev	.0004786
%RSD	.2167337
#1	.2212771
#2	.2208316
#3	.2203207

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1000.834	29445.80	5683.845	877.0897	1766.108
Stddev	1.736	104.45	13.869	2.9707	.288
%RSD	.1734764	.3547116	.2440023	.3387022	.0163056
#1	1002.789	29326.07	5668.870	875.3249	1766.425
#2	999.470	29518.22	5686.419	875.4247	1766.035
#3	1000.244	29493.12	5696.247	880.5195	1765.863

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165239BL Acquired: 12/02/2024 19:34:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS240 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031245	.0006855	-.002948	-.000893	-.000538	-.010957
Stddev	.0044469	.0016375	.000559	.005431	.003860	.004369
%RSD	142.3250	238.8929	18.95813	608.1219	717.4731	39.87008
#1	.0008854	-.001053	-.003429	.003390	-.004782	-.015899
#2	.0002422	.002199	-.003082	-.007002	.000403	-.009363
#3	.0082460	.000911	-.002335	.000933	.002765	-.007609

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000629	.0000370	-.000098	-.012749	.0001259	-.000244
Stddev	.000895	.0001224	.000147	.002383	.0005066	.000173
%RSD	142.3027	331.0016	150.1503	18.69256	402.5461	70.74009
#1	.000404	-.000067	-.000257	-.015435	-.000208	-.000145
#2	-.001150	.000006	-.000071	-.010891	-.000124	-.000144
#3	-.001140	.000172	.000034	-.011920	.000709	-.000443

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008385	-.006291	.0001698	-.037296	.0004007	.0005819
Stddev	.0008323	.003373	.0003119	.018653	.0009278	.0003837
%RSD	99.25578	53.61667	183.6794	50.01320	231.5368	65.93672
#1	.0011663	-.009201	-.000154	-.017568	.0009487	.0010235
#2	-.000108	-.002594	.000468	-.054646	-.000671	.0003298
#3	.001457	-.007078	.000195	-.039674	.000924	.0003924

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052136	.0021078	-.001061	-.593922	-.000153	-.005615
Stddev	.0968514	.0051622	.000924	.072947	.003302	.001528
%RSD	1857.659	244.9106	87.01581	12.28228	2164.569	27.22344
#1	.1090906	.0041100	-.000269	-.623460	-.003683	-.003995
#2	-.010845	-.003756	-.000839	-.647469	.002859	-.007031
#3	-.082605	.005969	-.002076	-.510838	.000366	-.005818

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165239BL Acquired: 12/02/2024 19:34:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS240 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000115	.0021165	-.000563	-.001549	.0004277	F -.026494
Stddev	.000509	.0030994	.000541	.001531	.0007722	.001717
%RSD	443.2313	146.4400	96.03107	98.85267	180.5616	6.479873
#1	.000214	-.001096	-.000279	-.002191	-.000443	-.027645
#2	.000143	.002357	-.000224	-.002654	.001029	-.024521
#3	-.000701	.005089	-.001187	.000199	.000698	-.027316

Elem	Sr4077
Units	ppm
Avg	.0000205
Stddev	.0000283
%RSD	137.9715
#1	-.000012
#2	.000036
#3	.000037

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1000.578	29606.59	5662.143	880.8022	1831.086
Stddev	4.540	67.31	6.382	6.5456	10.355
%RSD	.4536907	.2273636	.1127142	.7431446	.5655112
#1	995.390	29573.05	5660.500	875.9219	1819.456
#2	1003.820	29562.63	5656.743	888.2406	1839.308
#3	1002.525	29684.08	5669.186	878.2442	1834.494

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165239BS Acquired: 12/02/2024 19:38:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS240 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0254038	.0526820	.0184004	.0679765	.1182174	.3989846
Stddev	.0026021	.0014078	.0001809	.0031255	.0016085	.0043408
%RSD	10.24300	2.672329	.9829641	4.597979	1.360637	1.087956
#1	.0238892	.0516503	.0185138	.0678590	.1197646	.4039631
#2	.0284084	.0542858	.0181918	.0711591	.1165539	.3969986
#3	.0239139	.0521098	.0184956	.0649114	.1183339	.3959921

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4473832	.0115407	.0112706	11.49918	.0242092	.1069216
Stddev	.0008922	.0000712	.0000941	.03473	.0006934	.0008205
%RSD	.1994185	.6166335	.8351333	.3020206	2.864165	.7673966
#1	.4464671	.0116227	.0113264	11.46794	.0241250	.1074218
#2	.4474331	.0114949	.0111619	11.49303	.0235617	.1059747
#3	.4482493	.0115046	.0113234	11.53658	.0249409	.1073684

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0547073	.2211252	.0380759	10.73808	.0924535	.0245862
Stddev	.0036957	.0089202	.0002716	.01172	.0005732	.0018047
%RSD	6.755379	4.033981	.7134104	.1091365	.6199677	7.340392
#1	.0534456	.2294123	.0377624	10.72646	.0929947	.0227360
#2	.0518077	.2222789	.0382399	10.74990	.0918530	.0263418
#3	.0588686	.2116843	.0382255	10.73787	.0925129	.0246809

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.18817	.1193874	.1414336	10.04182	.0196248	F -.006594
Stddev	.34115	.0065260	.0026888	.09439	.0031996	.000743
%RSD	3.049199	5.466243	1.901081	.9399613	16.30382	11.27504
#1	11.34904	.1262502	.1384015	10.03267	.0228565	-.006259
#2	10.79633	.1186514	.1435277	10.14046	.0195598	-.007446
#3	11.41914	.1132606	.1423716	9.95235	.0164583	-.006077

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165239BS Acquired: 12/02/2024 19:38:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS240 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0204186	.2036408	F .3326297	.0138267	.2164898	F .0062765
Stddev	.0001216	.0126714	.0023871	.0022497	.0006509	.0002369
%RSD	.5955518	6.222410	.7176504	16.27098	.3006408	3.774825
#1	.0205516	.2084473	.3308427	.0115596	.2158303	.0060448
#2	.0203912	.1892694	.3317057	.0138618	.2171316	.0062662
#3	.0203131	.2132057	.3353407	.0160587	.2165075	.0065183

Elem	Sr4077
Units	ppm
Avg	.2238466
Stddev	.0002466
%RSD	.1101690
#1	.2237009
#2	.2237076
#3	.2241313

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	990.4552	29208.80	5662.656	874.6426	1749.526
Stddev	2.7237	542.82	24.280	12.1320	3.771
%RSD	.2749910	1.858426	.4287726	1.387079	.2155476
#1	991.9311	29755.23	5660.376	887.8244	1751.726
#2	992.1225	28669.65	5687.996	863.9449	1751.681
#3	987.3122	29201.53	5639.597	872.1585	1745.172

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165169BS Acquired: 12/02/2024 19:43:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS169 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0247985	.0557050	.0224028	.0701449	.1165360	.3897736
Stddev	.0017369	.0061309	.0008509	.0065150	.0017604	.0030888
%RSD	7.004216	11.00604	3.798086	9.287948	1.510633	.7924601
#1	.0236731	.0545585	.0227629	.0732790	.1157084	.3864296
#2	.0267989	.0623283	.0214311	.0626551	.1185577	.3903715
#3	.0239235	.0502283	.0230145	.0745005	.1153418	.3925198

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4414468	.0115342	.0111389	11.35282	.0237249	.1052923
Stddev	.0013482	.0002194	.0000581	.00959	.0007540	.0012466
%RSD	.3054086	1.901873	.5216113	.0844596	3.178215	1.183930
#1	.4428847	.0116140	.0110726	11.35599	.0232788	.1041269
#2	.4402112	.0117024	.0111810	11.34205	.0245955	.1051434
#3	.4412444	.0112861	.0111630	11.36042	.0233005	.1066067

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0572574	.2216688	.0373624	10.65130	.0909398	.0239134
Stddev	.0006469	.0069465	.0007227	.10996	.0012712	.0003640
%RSD	1.129829	3.133712	1.934158	1.032340	1.397793	1.522137
#1	.0573340	.2288470	.0370048	10.75853	.0896891	.0237665
#2	.0578625	.2149800	.0368883	10.65657	.0908998	.0243280
#3	.0565755	.2211793	.0381942	10.53881	.0922305	.0236459

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.90226	.1152517	.1386116	9.826325	.0203438	F -.006446
Stddev	.27826	.0066502	.0003859	.104603	.0007689	.000879
%RSD	2.552297	5.770123	.2783989	1.064517	3.779604	13.63242
#1	10.65547	.1222584	.1386004	9.936544	.0211427	-.005467
#2	11.20384	.1144692	.1390030	9.728429	.0196088	-.007167
#3	10.84748	.1090273	.1382314	9.814003	.0202800	-.006703

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165169BS Acquired: 12/02/2024 19:43:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS169 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0208648	.2036441	F .3272224	.0128084	.2162818	F .0057390
Stddev	.0007498	.0047315	.0012357	.0010380	.0018412	.0005148
%RSD	3.593443	2.323418	.3776204	8.103987	.8512891	8.969630
#1	.0216698	.1986599	.3286142	.0122941	.2159728	.0052932
#2	.0207382	.2080741	.3262546	.0140031	.2182580	.0056215
#3	.0201864	.2041985	.3267983	.0121280	.2146147	.0063024

Elem	Sr4077
Units	ppm
Avg	.2207978
Stddev	.0009554
%RSD	.4326889
#1	.2218903
#2	.2201190
#3	.2203841

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	994.4444	29371.20	5700.827	881.8103	1757.420
Stddev	5.7252	56.97	28.942	5.0268	11.520
%RSD	.5757171	.1939555	.5076828	.5700508	.6554916
#1	996.1239	29368.22	5667.488	876.3224	1763.945
#2	999.1420	29315.78	5719.511	882.9171	1764.197
#3	988.0673	29429.60	5715.480	886.1914	1744.119

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCV073 Acquired: 12/02/2024 19:47:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV073 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.408668	4.961160	24.78972	4.853045	4.661065	396.7876
Stddev	.110957	.081048	.47496	.119902	.104092	4.3635
%RSD	2.051457	1.633660	1.915938	2.470657	2.233229	1.099718
#1	5.505114	5.035236	25.21745	4.944312	4.757624	395.4700
#2	5.433487	4.973653	24.87312	4.897573	4.674773	401.6581
#3	5.287405	4.874590	24.27859	4.717249	4.550798	393.2347

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.975039	.4961033	2.622154	402.9302	15.29084	2.492788
Stddev	.180904	.0057322	.051712	4.9008	.12306	.049844
%RSD	1.813571	1.155438	1.972128	1.216300	.8047723	1.999528
#1	10.11815	.4977099	2.668291	403.2279	15.39942	2.534743
#2	10.03526	.5008607	2.631915	407.6754	15.15718	2.505931
#3	9.77170	.4897392	2.566257	397.8873	15.31593	2.437690

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.76213	402.6171	14.73170	417.2572	2.471713	1.262406
Stddev	.16529	5.2371	.16522	5.0625	.049670	.009239
%RSD	1.119711	1.300754	1.121557	1.213289	2.009554	.7318194
#1	14.80171	403.6935	14.73941	418.4397	2.517594	1.269577
#2	14.90404	407.2323	14.89293	421.6239	2.478577	1.251981
#3	14.58064	396.9255	14.56275	411.7081	2.418967	1.265659

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	398.7468	2.484295	14.27130	151.9522	4.864060	F 4.117855
Stddev	4.7834	.026703	.13857	1.9901	.103526	.063832
%RSD	1.199596	1.074875	.9709508	1.309710	2.128393	1.550133
#1	400.4214	2.494693	14.40406	152.0789	4.951330	4.096834
#2	402.4678	2.504235	14.12758	153.8759	4.891176	4.189547
#3	393.3513	2.453957	14.28227	149.9017	4.749675	4.067185

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCV073 Acquired: 12/02/2024 19:47:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV073 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.710976	4.960963	F 3.362017	4.986380	4.977685	4.834135
Stddev	.113329	.088577	.045325	.108495	.064824	.055326
%RSD	2.405630	1.785489	1.348149	2.175827	1.302284	1.144487
#1	4.812092	5.029863	3.360038	5.068961	5.001564	4.849759
#2	4.732356	4.991977	3.408298	5.026678	5.027182	4.879968
#3	4.588481	4.861049	3.317713	4.863502	4.904309	4.772676

Elem	Sr4077
Units	ppm
Avg	4.940190
Stddev	.047779
%RSD	.9671433
#1	4.927617
#2	4.992998
#3	4.899956

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	815.8334	25784.12	5439.880	670.2565	1322.447
Stddev	17.9266	187.78	59.871	5.6086	23.841
%RSD	2.197333	.7282800	1.100599	.8367781	1.802815
#1	799.7731	25664.80	5448.241	665.5277	1301.622
#2	812.5538	26000.57	5376.267	676.4530	1317.267
#3	835.1734	25686.98	5495.131	668.7887	1348.453

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCB073 Acquired: 12/02/2024 19:52:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB073 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0086687	.0017603	-.001731	.0016634	.0017268	.0453551	-.000733
Stddev	.0036245	.0047812	.000953	.0032519	.0016998	.0054672	.000598
%RSD	41.81187	271.6131	55.06653	195.5044	98.43926	12.05424	81.50740
#1	.0127695	.0012178	-.000802	.0030359	-.000196	.0390920	-.001119
#2	.0073422	-.002727	-.002707	.0040040	.003029	.0491728	-.000045
#3	.0058942	.006790	-.001684	-.002050	.002347	.0478004	-.001036

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000140	-.000084	.0108938	.0011544	-.000039	.0008739	-.002602
Stddev	.0000893	.000093	.0076752	.0006742	.000241	.0015656	.009215
%RSD	638.9103	110.9847	70.45511	58.40224	616.6768	179.1466	354.1905
#1	.0000668	-.000099	.0056283	.0017288	-.000183	.0021529	.004435
#2	.0000643	.000016	.0197003	.0013221	.000239	-.000872	.000793
#3	-.000089	-.000168	.0073528	.0004122	-.000174	.001341	-.013033

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007139	-.027658	.0003658	.0002117	.2562805	-.002269	.0004193
Stddev	.0003688	.038064	.0003512	.0007449	.2681648	.006002	.0001933
%RSD	51.66436	137.6248	96.01186	351.8276	104.6372	264.4984	46.10163
#1	.0007199	-.056917	-.000018	.0008739	.4722051	-.003210	.0004525
#2	.0003421	-.041433	.000671	-.000595	.3405283	-.007746	.0005938
#3	.0010796	.015376	.000444	.000356	-.043892	.004148	.0002115

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.123167	.0012776	-.000106	-.000085	.0002470	.0005940	.0002105
Stddev	.204086	.0009761	.001101	.000350	.0028151	.0002415	.0009167
%RSD	165.6980	76.40462	1039.740	408.9346	1139.681	40.65933	435.3718
#1	.105787	.0008102	-.001261	.000295	-.003000	.0008727	.0003812
#2	-.285976	.0006231	.000933	-.000393	.002002	.0004649	-.000779
#3	-.189314	.0023996	.000010	-.000158	.001739	.0004445	.001030

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCB073 Acquired: 12/02/2024 19:52:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB073 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000184	-.011843	.0000591
Stddev	.001099	.002528	.0000367
%RSD	598.9921	21.34907	62.08007
#1	.000638	-.010777	.0000351
#2	.000244	-.010022	.0000408
#3	-.001432	-.014729	.0001013

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	997.2545	29686.49	5633.063	882.6831	1822.916
Stddev	2.2924	349.48	13.522	5.4305	2.776
%RSD	.2298756	1.177242	.2400462	.6152235	.1523016
#1	998.8159	29452.60	5618.082	880.0817	1824.740
#2	994.6226	30088.23	5636.743	888.9249	1819.721
#3	998.3250	29518.63	5644.364	879.0427	1824.287

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-21 Acquired: 12/02/2024 19:56:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX4D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1622279	-.003376	8.113078	.0015353	.0091714	63.08539
Stddev	.0020554	.002733	.093882	.0056767	.0018068	.15269
%RSD	1.266968	80.96520	1.157163	369.7569	19.70017	.2420368
#1	.1639835	-.002796	8.143875	.0064352	.0104100	63.26107
#2	.1627332	-.000979	8.007666	-.004685	.0070982	62.98463
#3	.1599670	-.006353	8.187693	.002856	.0100061	63.01048

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.185492	.0050742	.0163605	37.96051	.2054112	.1067059
Stddev	.008978	.0001122	.0001764	.07020	.0002906	.0008207
%RSD	.4107982	2.210742	1.078079	.1849274	.1414937	.7691048
#1	2.195841	.0050827	.0165445	38.02945	.2050914	.1067502
#2	2.180843	.0051819	.0161928	37.96297	.2056592	.1058640
#3	2.179792	.0049581	.0163442	37.88912	.2054831	.1075036

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5948309	162.1199	14.04724	14.84786	.2254370	-.009535
Stddev	.0027546	.0563	.02981	.10504	.0028427	.000263
%RSD	.4630926	.0347364	.2121795	.7074239	1.260951	2.756360
#1	.5979977	162.0668	14.07747	14.76583	.2264100	-.009659
#2	.5935057	162.1790	14.04637	14.81150	.2222356	-.009714
#3	.5929894	162.1140	14.01787	14.96625	.2276654	-.009234

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.324043	.1827940	2.345859	7.721301	F 14.81294	.0363197
Stddev	.077487	.0034636	.014386	.092553	.15277	.0007724
%RSD	5.852305	1.894795	.6132497	1.198668	1.031345	2.126697
#1	1.353641	.1831684	2.361377	7.744903	14.83519	.0368266
#2	1.382368	.1791584	2.332966	7.799767	14.65026	.0354307
#3	1.236119	.1860551	2.343234	7.619232	14.95336	.0367018

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-21 Acquired: 12/02/2024 19:56:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX4D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0129313	3.563428	6.080490	.3629759	1.339330	.0496474
Stddev	.0003869	.059194	.042471	.0065190	.001969	.0006746
%RSD	2.991994	1.661157	.6984748	1.795982	.1470352	1.358717
#1	.0131846	3.552965	6.126072	.3637347	1.341563	.0490262
#2	.0124859	3.510163	6.073366	.3561107	1.337843	.0503649
#3	.0131232	3.627156	6.042031	.3690822	1.338583	.0495510

Elem	Sr4077
Units	ppm
Avg	.1622765
Stddev	.0002153
%RSD	.1326775
#1	.1625010
#2	.1622567
#3	.1620717

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1151.467	34433.46	6734.786	1009.263	1692.114
Stddev	5.776	60.83	30.779	4.089	14.078
%RSD	.5016491	.1766681	.4570131	.4051175	.8319958
#1	1149.198	34446.05	6705.436	1004.647	1684.329
#2	1158.033	34487.02	6732.104	1012.430	1708.365
#3	1147.169	34367.32	6766.818	1010.711	1683.647

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-20LX5 Acquired: 12/02/2024 20:01:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX4L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0300672	.0007562	1.664010	.0012860	.0016282	15.35287	.5266577
Stddev	.0034867	.0024559	.055665	.0063072	.0014090	.20167	.0083010
%RSD	11.59641	324.7883	3.345244	490.4452	86.53735	1.313573	1.576163
#1	.0339046	.0001636	1.720221	.0052743	.0024268	15.48568	.5311775
#2	.0292036	-.001349	1.662902	.0045693	.0024566	15.45213	.5317180
#3	.0270935	.003454	1.608907	-.005986	.0000013	15.12081	.5170777

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014915	.0028892	9.265244	.0494765	.0211916	.1443544	39.61585
Stddev	.0001117	.0000560	.147964	.0013093	.0006794	.0031233	.53053
%RSD	7.486870	1.939641	1.596975	2.646313	3.206143	2.163625	1.339183
#1	.0015912	.0028254	9.335173	.0500373	.0216492	.1474838	40.02513
#2	.0013708	.0029120	9.365281	.0504120	.0215146	.1443420	39.80596
#3	.0015123	.0029303	9.095277	.0479802	.0204109	.1412373	39.01646

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.476873	3.573607	.0461663	-.002180	.6834793	.0459793	.5732935
Stddev	.052596	.054360	.0013992	.000500	.2888943	.0019337	.0092490
%RSD	1.512740	1.521150	3.030814	22.93374	42.26819	4.205569	1.613301
#1	3.503892	3.621806	.0477531	-.002089	.4828920	.0473831	.5817987
#2	3.510469	3.584332	.0451094	-.001731	.5529408	.0437737	.5746346
#3	3.416260	3.514684	.0456365	-.002719	1.014605	.0467812	.5634473

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.684737	2.967957	.0065059	.0027753	.7149422	1.545638	.0719611
Stddev	.106951	.084938	.0013503	.0008371	.0256076	.024637	.0036703
%RSD	6.348236	2.861824	20.75466	30.16375	3.581778	1.593964	5.100448
#1	1.788900	3.049048	.0053009	.0036846	.7398078	1.568538	.0760979
#2	1.690111	2.975187	.0062515	.0020365	.7163669	1.548805	.0706906
#3	1.575201	2.879635	.0079653	.0026048	.6886520	1.519571	.0690949

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-20LX5 Acquired: 12/02/2024 20:01:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX4L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3261334	-.003291	.0394178
Stddev	.0072861	.001647	.0006378
%RSD	2.234100	50.04382	1.618028
#1	.3320386	-.001626	.0398699
#2	.3283706	-.004920	.0396953
#3	.3179909	-.003327	.0386883

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1042.671	30952.29	5960.050	921.5832	1783.731
Stddev	1.444	346.58	48.714	11.7198	5.660
%RSD	.1384853	1.119727	.8173351	1.271707	.3173249
#1	1043.710	30725.37	5932.047	914.0002	1778.846
#2	1043.281	30780.27	5931.804	915.6675	1782.413
#3	1041.023	31351.23	6016.300	935.0818	1789.934

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-22 Acquired: 12/02/2024 20:05:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX4S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2902521	.1690497	7.917450	.2934867	.2967192	68.18811
Stddev	.0052508	.0054733	.033923	.0137106	.0058036	1.34301
%RSD	1.809051	3.237689	.4284570	4.671627	1.955905	1.969573
#1	.2939272	.1627965	7.937613	.3014315	.2949222	67.21061
#2	.2842383	.1713825	7.878285	.2776551	.2920268	67.63425
#3	.2925907	.1729701	7.936451	.3013735	.3032088	69.71948

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.898882	.1691124	.2055919	36.74989	.9330075	2.025949
Stddev	.170284	.0026898	.0006576	.69500	.0060863	.008762
%RSD	1.913541	1.590565	.3198454	1.891169	.6523326	.4324982
#1	8.834347	.1673291	.2055606	36.36671	.9331771	2.028000
#2	8.770299	.1678017	.2049505	36.33082	.9390072	2.016344
#3	9.092001	.1722063	.2062645	37.55214	.9268381	2.033504

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.362054	159.4671	15.20625	14.38863	2.150929	.1488427
Stddev	.031434	3.0864	.30775	.26563	.008178	.0018413
%RSD	2.307805	1.935426	2.023872	1.846093	.3801996	1.237092
#1	1.341890	157.3652	15.03638	14.16441	2.155055	.1494936
#2	1.346000	158.0256	15.02087	14.31949	2.141510	.1502702
#3	1.398273	163.0104	15.56150	14.68199	2.156221	.1467644

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.439739	1.961480	3.698847	7.463840	F 14.31320	.0338986
Stddev	.187406	.037048	.006648	.190365	.05979	.0024196
%RSD	13.01665	1.888770	.1797278	2.550499	.4177408	7.137777
#1	1.648260	1.926358	3.695714	7.256556	14.34899	.0326516
#2	1.285376	1.957889	3.706483	7.504126	14.24418	.0323568
#3	1.385580	2.000192	3.694345	7.630837	14.34644	.0366873

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-22 Acquired: 12/02/2024 20:05:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX4S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0119357	3.524142	6.302083	.3497348	1.325156	.0458988
Stddev	.0005050	.009901	.081777	.0015775	.026812	.0020596
%RSD	4.231103	.2809390	1.297626	.4510598	2.023307	4.487229
#1	.0117906	3.514822	6.256507	.3510959	1.306625	.0440526
#2	.0115192	3.523068	6.253249	.3480059	1.312942	.0455236
#3	.0124974	3.534536	6.396492	.3501025	1.355900	.0481202

Elem	Sr4077
Units	ppm
Avg	.1571127
Stddev	.0029248
%RSD	1.861609
#1	.1551664
#2	.1556955
#3	.1604761

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1140.825	34357.26	6750.146	1001.213	1684.499
Stddev	4.795	154.10	96.326	.568	5.380
%RSD	.4203073	.4485151	1.427024	.0567201	.3193799
#1	1141.831	34299.33	6804.212	1000.924	1683.914
#2	1145.038	34240.53	6807.293	1000.848	1690.148
#3	1135.607	34531.93	6638.932	1001.868	1679.436

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-04 Acquired: 12/02/2024 20:10:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1285670	-.008908	5.728064	-.014104	.0090771	68.79102
Stddev	.0085388	.000998	.056729	.003270	.0062477	2.25251
%RSD	6.641505	11.20701	.9903693	23.18289	68.82888	3.274420
#1	.1240940	-.009588	5.767273	-.010470	.0018814	71.39196
#2	.1231940	-.009375	5.663015	-.015035	.0131220	67.50028
#3	.1384131	-.007762	5.753903	-.016807	.0122278	67.48081

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.922010	.0049289	.0264034	174.1565	.1850624	.0929107
Stddev	.090930	.0001290	.0003302	5.4605	.0012391	.0012691
%RSD	3.111887	2.617411	1.250433	3.135382	.6695537	1.365949
#1	3.027004	.0049532	.0265307	180.4563	.1836699	.0941846
#2	2.870096	.0050440	.0260286	171.2339	.1860432	.0916464
#3	2.868929	.0047895	.0266510	170.7794	.1854741	.0929012

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6170452	211.9697	12.19088	35.26707	.1999651	-.014440
Stddev	.0191727	6.7895	.38587	1.06310	.0020746	.000773
%RSD	3.107184	3.203034	3.165233	3.014420	1.037455	5.349923
#1	.6391174	219.8070	12.63629	36.49438	.2017737	-.015320
#2	.6074949	207.8803	11.97826	34.63201	.1977005	-.014129
#3	.6045234	208.2218	11.95808	34.67482	.2004212	-.013872

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.173157	.1942330	3.393068	7.798688	F 15.30261	.0511042
Stddev	.097496	.0046106	.012353	.316303	.15955	.0062594
%RSD	4.486393	2.373744	.3640607	4.055853	1.042657	12.24837
#1	2.237695	.1988445	3.379777	8.158745	15.44399	.0533132
#2	2.220774	.1942313	3.395229	7.671733	15.12962	.0559596
#3	2.061003	.1896233	3.404198	7.565585	15.33422	.0440398

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-04 Acquired: 12/02/2024 20:10:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053782	3.358757	6.201694	.2780170	1.491792	.0718323
Stddev	.0007299	.027245	.162665	.0053782	.045673	.0033035
%RSD	13.57179	.8111711	2.622908	1.934484	3.061633	4.598956
#1	.0046888	3.378000	6.389513	.2811252	1.544515	.0755852
#2	.0061429	3.327581	6.106038	.2718068	1.464287	.0705477
#3	.0053030	3.370689	6.109532	.2811191	1.466576	.0693641

Elem	Sr4077
Units	ppm
Avg	.4383770
Stddev	.0143655
%RSD	3.276975
#1	.4549646
#2	.4300015
#3	.4301649

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1117.899	33525.11	6578.793	985.8364	1596.977
Stddev	7.049	70.80	169.093	3.2163	13.230
%RSD	.6305673	.2111915	2.570275	.3262497	.8284335
#1	1112.199	33501.41	6384.239	989.1554	1585.640
#2	1125.781	33469.21	6661.783	982.7337	1611.514
#3	1115.717	33604.73	6690.356	985.6201	1593.778

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-05 Acquired: 12/02/2024 20:14:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ4D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1274656	-.010817	5.772407	-.015726	.0072573	65.83040
Stddev	.0047285	.001587	.047644	.002901	.0009115	.82299
%RSD	3.709591	14.67258	.8253776	18.44383	12.55988	1.250168
#1	.1249139	-.009263	5.737667	-.013079	.0078496	64.91907
#2	.1245612	-.012436	5.752833	-.015273	.0062077	66.05280
#3	.1329218	-.010752	5.826720	-.018827	.0077146	66.51934

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.799273	.0049025	.0270064	167.5942	.1813938	.0929122
Stddev	.033280	.0001352	.0002142	1.7143	.0015896	.0017551
%RSD	1.188883	2.757669	.7930217	1.022900	.8763090	1.889000
#1	2.762054	.0048028	.0269172	165.6986	.1801001	.0911646
#2	2.809600	.0048482	.0268512	168.0483	.1809129	.0928972
#3	2.826166	.0050564	.0272507	169.0358	.1831682	.0946748

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5883362	203.1120	11.74070	33.80172	.2008294	-.013152
Stddev	.0103067	2.3952	.10752	.44565	.0017458	.000344
%RSD	1.751836	1.179260	.9157502	1.318429	.8692940	2.612372
#1	.5787595	200.4908	11.62009	33.33792	.1997515	-.013519
#2	.5870055	203.6585	11.77552	33.84056	.1998932	-.013098
#3	.5992436	205.1868	11.82650	34.22668	.2028436	-.012838

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.962810	.1877419	3.373737	7.218514	F 15.41805	.0482869
Stddev	.313042	.0025653	.037222	.197318	.11757	.0007090
%RSD	15.94866	1.366411	1.103275	2.733496	.7625727	1.468372
#1	1.622538	.1850880	3.357520	7.038926	15.38799	.0474783
#2	2.238569	.1879294	3.347376	7.186877	15.31842	.0485798
#3	2.027321	.1902083	3.416316	7.429739	15.54773	.0488025

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-05 Acquired: 12/02/2024 20:14:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ4D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052160	3.376825	5.984959	.2758817	1.431474	.0652557
Stddev	.0001838	.037083	.069285	.0036966	.019351	.0011667
%RSD	3.524320	1.098158	1.157660	1.339928	1.351826	1.787808
#1	.0053987	3.334672	5.907351	.2763806	1.410461	.0639959
#2	.0050311	3.391383	6.006937	.2719609	1.435400	.0662987
#3	.0052183	3.404420	6.040591	.2793035	1.448561	.0654726

Elem	Sr4077
Units	ppm
Avg	.4197382
Stddev	.0048150
%RSD	1.147145
#1	.4145251
#2	.4206709
#3	.4240187

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1110.339	33372.74	6777.492	986.0555	1585.771
Stddev	3.590	260.74	69.107	6.9004	10.246
%RSD	.3233197	.7812947	1.019659	.6997956	.6461337
#1	1107.961	33562.31	6857.235	988.7000	1592.152
#2	1114.469	33480.51	6740.176	991.2425	1591.208
#3	1108.589	33075.39	6735.064	978.2240	1573.952

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-04LX5 Acquired: 12/02/2024 20:18:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ4L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0349018	.0006350	1.207942	.0000805	.0014874	15.55496	.6569110
Stddev	.0054696	.0030828	.003465	.0012954	.0026439	.03278	.0008437
%RSD	15.67129	485.5294	.2868320	1609.299	177.7530	.2107329	.1284373
#1	.0354539	-.000586	1.208148	.0015375	-.001135	15.54915	.6560316
#2	.0400744	-.001650	1.211300	-.000355	.001445	15.52547	.6569875
#3	.0291772	.004141	1.204379	-.000941	.004152	15.59025	.6577138

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013434	.0049560	39.99152	.0430014	.0182140	.1394299	49.25507
Stddev	.0000694	.0001436	.09461	.0006597	.0003487	.0024928	.20023
%RSD	5.167917	2.898149	.2365876	1.534175	1.914615	1.787836	.4065115
#1	.0013204	.0049038	39.88303	.0430904	.0183030	.1384157	49.39123
#2	.0014214	.0048458	40.05695	.0436121	.0178294	.1422699	49.02517
#3	.0012884	.0051184	40.03456	.0423017	.0185097	.1376041	49.34883

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.842121	8.150068	.0420265	-.001388	.4098684	.0419478	.8145110
Stddev	.004556	.010769	.0005916	.000844	.2574696	.0026174	.0024395
%RSD	.1602906	.1321294	1.407784	60.83172	62.81764	6.239760	.2995100
#1	2.840718	8.161167	.0427085	-.001940	.2608677	.0398193	.8121039
#2	2.847213	8.149375	.0416508	-.000416	.2615691	.0411538	.8169817
#3	2.838432	8.139663	.0417202	-.001806	.7071685	.0448704	.8144474

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.383192	3.129352	.0052437	.0003365	.6811190	1.490795	.0557425
Stddev	.062141	.010132	.0019471	.0002558	.0081827	.002321	.0017103
%RSD	4.492610	.3237625	37.13339	76.01047	1.201366	.1557184	3.068125
#1	1.452094	3.132694	.0048707	.0002321	.6902092	1.488609	.0537749
#2	1.331393	3.137390	.0035100	.0001495	.6788066	1.490544	.0568717
#3	1.366088	3.117971	.0073503	.0006280	.6743414	1.493232	.0565810

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-04LX5 Acquired: 12/02/2024 20:18:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ4L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3412137	-.002154	.0996719
Stddev	.0010103	.000577	.0000787
%RSD	.2960804	26.78654	.0789838
#1	.3405060	-.002797	.0997523
#2	.3407644	-.001681	.0995950
#3	.3423706	-.001984	.0996685

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1033.062	30475.14	5897.037	913.2130	1739.859
Stddev	4.497	189.54	11.181	4.0816	9.042
%RSD	.4352990	.6219498	.1896119	.4469481	.5197089
#1	1029.728	30570.27	5902.067	915.5689	1735.873
#2	1031.280	30256.87	5904.820	908.5000	1733.494
#3	1038.176	30598.26	5884.224	915.5702	1750.209

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-06 Acquired: 12/02/2024 20:23:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ4S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2023183	.0838450	5.707644	.1337661	.1643850	70.19762
Stddev	.0136169	.0022091	.005554	.0016443	.0040728	.04232
%RSD	6.730449	2.634723	.0972996	1.229221	2.477566	.0602869
#1	.1926207	.0856467	5.701647	.1333239	.1649700	70.19774
#2	.1964486	.0845079	5.712609	.1323880	.1681337	70.23989
#3	.2178857	.0813803	5.708676	.1355862	.1600515	70.15524

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.446444	.0925175	.1258003	169.0614	.5644783	1.096744
Stddev	.012427	.0004876	.0005239	.4635	.0130089	.002692
%RSD	.1927675	.5269892	.4164611	.2741902	2.304591	.2454508
#1	6.436379	.0924291	.1251978	168.5634	.5573247	1.094115
#2	6.460333	.0930432	.1260542	169.4803	.5794941	1.096621
#3	6.442619	.0920802	.1261488	169.1404	.5566160	1.099495

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.009215	207.6334	12.73021	34.29030	1.205855	.0726481
Stddev	.004250	.0477	.04655	.09594	.002703	.0031836
%RSD	.4211468	.0229865	.3656830	.2797801	.2241595	4.382250
#1	1.006375	207.6187	12.68140	34.23836	1.203372	.0707885
#2	1.007169	207.6868	12.77411	34.40101	1.205459	.0763241
#3	1.014102	207.5948	12.73511	34.23154	1.208734	.0708316

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.931901	1.130077	4.123115	7.499431	F 15.21865	.0468086
Stddev	.217777	.004567	.110589	.097472	.05373	.0034991
%RSD	11.27266	.4041516	2.682161	1.299720	.3530826	7.475344
#1	1.900164	1.135249	4.082094	7.525411	15.15971	.0467072
#2	1.731734	1.128384	4.248353	7.581281	15.26490	.0433613
#3	2.163805	1.126597	4.038898	7.391602	15.23134	.0503574

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-06 Acquired: 12/02/2024 20:23:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ4S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0051734	3.363082	6.093271	.2716710	1.449407	.0675770
Stddev	.0003884	.017565	.038168	.0021837	.003318	.0010398
%RSD	7.508551	.5222980	.6263996	.8038149	.2288881	1.538639
#1	.0050051	3.364366	6.087582	.2716055	1.452623	.0665077
#2	.0048975	3.344910	6.133965	.2738867	1.449601	.0676387
#3	.0056176	3.379970	6.058267	.2695207	1.445996	.0685845

Elem	Sr4077
Units	ppm
Avg	.4242899
Stddev	.0008385
%RSD	.1976147
#1	.4233376
#2	.4249174
#3	.4246147

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1109.512	32986.10	6607.747	970.2183	1594.310
Stddev	.906	652.94	27.552	23.0618	2.410
%RSD	.0816547	1.979432	.4169641	2.376972	.1511315
#1	1109.780	33385.38	6606.307	979.1542	1596.863
#2	1108.502	32232.60	6580.942	944.0258	1593.992
#3	1110.253	33340.32	6635.990	987.4751	1592.076

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-03 Acquired: 12/02/2024 20:31:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ2D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1261631	-.010689	4.011017	-.007821	.0089134	60.11122	1.666212
Stddev	.0111980	.002108	.006796	.013264	.0037520	.09316	.006716
%RSD	8.875782	19.72583	.1694255	169.5941	42.09415	.1549821	.4030429
#1	.1287876	-.012867	4.018825	-.022634	.0046068	60.06789	1.658493
#2	.1358158	-.010540	4.007784	-.003788	.0106574	60.04762	1.670718
#3	.1138860	-.008658	4.006441	.002958	.0114759	60.21816	1.669423

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046514	.0268561	252.4806	.1460176	.0911580	.7875729	170.3543
Stddev	.0000511	.0002322	.7642	.0040701	.0000889	.0060473	.1786
%RSD	1.099276	.8645089	.3026684	2.787397	.0975534	.7678371	.1048365
#1	.0045924	.0267343	251.6055	.1413257	.0912175	.7845287	170.5594
#2	.0046827	.0271238	252.8202	.1485980	.0910558	.7945374	170.2698
#3	.0046790	.0267101	253.0161	.1481291	.0912008	.7836527	170.2336

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.82212	71.71519	.1883888	-.009439	1.696678	.1792067	2.600048
Stddev	.04430	.16865	.0018354	.001509	.149689	.0019936	.065223
%RSD	.3747300	.2351709	.9742767	15.98701	8.822463	1.112457	2.508523
#1	11.77145	71.80250	.1898424	-.011162	1.584010	.1803031	2.524987
#2	11.85352	71.52079	.1889977	-.008354	1.866530	.1804115	2.632254
#3	11.84140	71.82230	.1863263	-.008800	1.639495	.1769056	2.642904

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.827585	9.839923	.0465595	.0040331	2.133154	5.609123	.1941595
Stddev	.079143	.038153	.0004487	.0007225	.010255	.013500	.0009605
%RSD	1.011083	.3877390	.9636559	17.91496	.4807484	.2406728	.4946880
#1	7.774224	9.878037	.0462280	.0044204	2.139958	5.595792	.1930528
#2	7.918516	9.840002	.0463805	.0031995	2.138146	5.608792	.1947759
#3	7.790015	9.801731	.0470701	.0044794	2.121359	5.622786	.1946498

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-03 Acquired: 12/02/2024 20:31:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ2D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.094415	.0602243	.3726839
Stddev	.003241	.0005519	.0009831
%RSD	.2961167	.9163381	.2637855
#1	1.096269	.0600917	.3715896
#2	1.096304	.0608303	.3729696
#3	1.090673	.0597508	.3734924

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1091.075	32926.43	6544.687	964.8203	1551.642
Stddev	2.024	619.40	14.741	21.9900	1.935
%RSD	.1854712	1.881151	.2252335	2.279181	.1247092
#1	1090.669	33628.93	6532.698	990.0010	1551.272
#2	1089.286	32458.92	6561.145	955.0598	1549.919
#3	1093.271	32691.43	6540.218	949.4000	1553.736

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-02 Acquired: 12/02/2024 20:36:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1216278	-.008186	3.870182	-.006547	.0067237	62.92738	1.629972
Stddev	.0047066	.003827	.020006	.004224	.0027074	.12585	.003897
%RSD	3.869685	46.74811	.5169168	64.50800	40.26620	.1999907	.2390536
#1	.1162446	-.004724	3.883374	-.001934	.0088206	62.78308	1.626238
#2	.1236728	-.007539	3.847163	-.010223	.0036672	63.01443	1.629667
#3	.1249661	-.012294	3.880008	-.007485	.0076832	62.98462	1.634013

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045372	.0260195	245.0130	.1468106	.0897723	.7690294	167.3002
Stddev	.0001291	.0002610	.9882	.0054259	.0011328	.0009961	.3203
%RSD	2.845023	1.002953	.4033209	3.695818	1.261869	.1295312	.1914613
#1	.0044574	.0257262	243.9188	.1437368	.0910737	.7680653	166.9311
#2	.0046861	.0262260	245.2799	.1530755	.0890068	.7700548	167.5048
#3	.0044681	.0261065	245.8403	.1436195	.0892366	.7689683	167.4647

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.47331	70.61732	.1858126	-.009624	1.754622	.1834592	2.524072
Stddev	.03520	.25606	.0017411	.001265	.341377	.0059830	.055393
%RSD	.3068159	.3625956	.9370343	13.14027	19.45587	3.261194	2.194578
#1	11.44070	70.33251	.1861634	-.010222	1.375605	.1772882	2.480042
#2	11.46861	70.82848	.1839228	-.008171	2.037927	.1838551	2.586266
#3	11.51063	70.69096	.1873516	-.010479	1.850334	.1892344	2.505907

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.494644	9.455791	.0505149	.0044135	2.068024	6.910381	.1905327
Stddev	.090007	.065381	.0013169	.0002739	.018955	.100898	.0023001
%RSD	1.059578	.6914378	2.606875	6.206504	.9165737	1.460093	1.207185
#1	8.390716	9.529348	.0512898	.0042880	2.065901	6.803835	.1892589
#2	8.545953	9.404291	.0489945	.0047277	2.050220	6.922835	.1931878
#3	8.547264	9.433735	.0512605	.0042248	2.087951	7.004475	.1891512

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-02 Acquired: 12/02/2024 20:36:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.135544	.0624671	.3683958
Stddev	.007843	.0004090	.0008505
%RSD	.6906975	.6546888	.2308672
#1	1.137997	.0625393	.3677827
#2	1.126767	.0628351	.3680380
#3	1.141867	.0620268	.3693668

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1093.780	33080.28	6568.333	972.7747	1559.718
Stddev	4.135	610.11	40.975	16.3801	7.192
%RSD	.3780183	1.844339	.6238324	1.683857	.4610861
#1	1090.595	33419.69	6613.376	984.0664	1556.210
#2	1098.453	32375.94	6558.354	953.9880	1567.991
#3	1092.293	33445.22	6533.268	980.2697	1554.954

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-02LX5 Acquired: 12/02/2024 20:40:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ2L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0293250	-.001415	.8161455	.0013821	.0019030	13.50182	.3734150
Stddev	.0081439	.005926	.0008436	.0078841	.0015423	.24675	.0057853
%RSD	27.77110	418.7178	.1033646	570.4447	81.04736	1.827510	1.549304
#1	.0269210	-.006526	.8152531	-.005738	.0036777	13.77874	.3797597
#2	.0384003	-.002801	.8169299	.000029	.0011441	13.42141	.3720532
#3	.0226538	.005081	.8162535	.009855	.0008871	13.30531	.3684320

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011714	.0048309	57.44326	.0346336	.0173632	.1806190	39.50707
Stddev	.0000822	.0001543	.98201	.0009452	.0001385	.0015438	.80565
%RSD	7.022176	3.194123	1.709522	2.729063	.7976193	.8547445	2.039256
#1	.0012121	.0048666	58.54974	.0341082	.0174129	.1823561	40.43699
#2	.0010767	.0046619	57.10478	.0340678	.0172067	.1800974	39.06496
#3	.0012253	.0049643	56.67527	.0357247	.0174700	.1794035	39.01928

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.749484	16.32080	.0384694	-.000580	.5861741	.0384531	.6051092
Stddev	.046773	.25201	.0002655	.000612	.5204616	.0051283	.0044835
%RSD	1.701161	1.544089	.6902892	105.6246	88.78959	13.33649	.7409383
#1	2.802088	16.61172	.0385879	-.001286	.1944503	.0436510	.6033303
#2	2.733779	16.18092	.0386550	-.000204	.3873278	.0333974	.6017881
#3	2.712584	16.16975	.0381652	-.000249	1.176744	.0383111	.6102091

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.354018	1.918169	.0065843	-.000070	.4310743	1.322047	.0373194
Stddev	.184972	.007301	.0021064	.000107	.0096385	.021169	.0026872
%RSD	13.66099	.3806454	31.99164	152.2946	2.235923	1.601228	7.200562
#1	1.547859	1.913820	.0049826	.000031	.4228367	1.346078	.0347747
#2	1.179419	1.926598	.0089704	-.000060	.4287118	1.313903	.0370541
#3	1.334776	1.914088	.0057999	-.000182	.4416744	1.306159	.0401294

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-02LX5 Acquired: 12/02/2024 20:40:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ2L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2509365	-.004965	.0846491
Stddev	.0061926	.001162	.0015207
%RSD	2.467782	23.39435	1.796437
#1	.2579634	-.004010	.0863927
#2	.2485702	-.004627	.0839571
#3	.2462761	-.006258	.0835976

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1036.085	30624.29	5945.826	915.1757	1738.458
Stddev	2.751	95.20	80.977	5.8403	2.416
%RSD	.2655349	.3108546	1.361911	.6381625	.1389913
#1	1037.786	30732.65	5853.306	919.8302	1737.417
#2	1032.911	30586.10	5980.370	917.0748	1736.736
#3	1037.557	30554.11	6003.802	908.6222	1741.220

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-04 Acquired: 12/02/2024 20:45:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ2S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2080230	.0856094	3.980842	.1460622	.1681551	62.99654	5.347838
Stddev	.0076420	.0028305	.020639	.0074319	.0025685	.16877	.010234
%RSD	3.673623	3.306235	.5184696	5.088152	1.527456	.2678964	.1913613
#1	.1992037	.0835965	3.997094	.1521329	.1683694	62.99376	5.351300
#2	.2121786	.0843860	3.957620	.1482796	.1706097	63.16668	5.355892
#3	.2126868	.0888458	3.987810	.1377740	.1654861	62.82918	5.336322

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0944434	.1278070	249.6416	.5325636	1.113582	1.209251	170.8827
Stddev	.0001466	.0003556	.4077	.0031533	.004754	.002953	.5122
%RSD	.1551996	.2782630	.1632988	.5920900	.4269156	.2442386	.2997475
#1	.0942743	.1276340	249.8565	.5361989	1.116363	1.208182	170.8211
#2	.0945346	.1275709	249.8968	.5309221	1.108093	1.212590	171.4230
#3	.0945212	.1282160	249.1714	.5305697	1.116290	1.206980	170.4042

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.58307	71.35042	1.205301	.0786882	1.779351	1.126018	3.319995
Stddev	.02307	.32684	.003773	.0004656	.280444	.006700	.009336
%RSD	.1833373	.4580715	.3130657	.5916413	15.76101	.5950606	.2811997
#1	12.60741	71.20080	1.207589	.0792143	1.631478	1.132831	3.321224
#2	12.56152	71.72529	1.200946	.0785208	1.603791	1.125786	3.328656
#3	12.58028	71.12518	1.207369	.0783295	2.102785	1.119436	3.310106

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.847949	9.681472	.0489784	.0038166	2.118186	5.519297	.1931782
Stddev	.126340	.037280	.0011720	.0003838	.016871	.009632	.0011013
%RSD	1.609846	.3850691	2.392981	10.05690	.7964631	.1745198	.5700728
#1	7.727346	9.710069	.0498871	.0042517	2.128557	5.508252	.1920650
#2	7.979335	9.639308	.0493926	.0035259	2.098719	5.525953	.1932026
#3	7.837166	9.695040	.0476555	.0036723	2.127280	5.523687	.1942671

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-04 Acquired: 12/02/2024 20:45:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ2S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.090194	.0578221	.3702282
Stddev	.004245	.0002555	.0004904
%RSD	.3893481	.4417977	.1324476
#1	1.090205	.0581129	.3705120
#2	1.094433	.0577195	.3705107
#3	1.085944	.0576338	.3696620

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1089.420	32668.83	6548.505	958.4688	1557.488
Stddev	3.827	101.73	11.799	3.1552	5.887
%RSD	.3513040	.3113942	.1801789	.3291931	.3779550
#1	1085.855	32557.48	6534.994	955.5533	1553.401
#2	1093.464	32692.10	6556.784	958.0343	1564.235
#3	1088.939	32756.90	6553.736	961.8187	1554.828

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4914-11 Acquired: 12/02/2024 20:49:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4573533	-.007677	5.738625	-.002140	.0075113	67.83403
Stddev	.0123675	.002648	.052756	.004734	.0017395	3.15455
%RSD	2.704151	34.48694	.9193187	221.2637	23.15765	4.650392
#1	.4534955	-.006955	5.737012	-.000595	.0055036	71.10619
#2	.4473744	-.010611	5.686694	.001629	.0084665	64.81199
#3	.4711899	-.005466	5.792169	-.007454	.0085639	67.58391

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.011912	.0042688	.0135640	83.30333	.1978314	.0925324
Stddev	.090930	.0003551	.0003477	3.71519	.0098259	.0013512
%RSD	4.519565	8.319472	2.563173	4.459831	4.966796	1.460280
#1	2.108497	.0046765	.0131649	87.15874	.2091722	.0915847
#2	1.927959	.0041028	.0137254	79.74637	.1924553	.0919329
#3	1.999281	.0040270	.0138016	83.00486	.1918665	.0940797

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4977801	159.6028	6.949970	33.98091	.1806473	-.009651
Stddev	.0226034	7.3327	.307029	1.48614	.0033557	.002159
%RSD	4.540844	4.594319	4.417698	4.373445	1.857612	22.36702
#1	.5209529	167.1151	7.274988	35.46323	.1799550	-.007192
#2	.4757927	152.4641	6.664827	32.49098	.1776918	-.010524
#3	.4965947	159.2292	6.910095	33.98851	.1842952	-.011236

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.457790	.2149375	3.281138	7.597108	F 10.61821	.0421306
Stddev	.473401	.0112527	.162515	.552037	.10943	.0057300
%RSD	19.26124	5.235343	4.953012	7.266407	1.030550	13.60061
#1	2.453386	.2269158	3.468654	8.187582	10.63970	.0430791
#2	2.933377	.2045878	3.193666	7.093906	10.49964	.0359856
#3	1.986606	.2133090	3.181094	7.509837	10.71530	.0473273

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4914-11 Acquired: 12/02/2024 20:49:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0073183	6.126622	7.072501	.1037670	2.833956	.0505036
Stddev	.0004884	.078864	.289447	.0041728	.138774	.0027669
%RSD	6.673066	1.287240	4.092563	4.021366	4.896834	5.478629
#1	.0078792	6.124693	7.391357	.1074612	2.976952	.0533170
#2	.0070880	6.048740	6.826311	.0992409	2.699830	.0477856
#3	.0069876	6.206433	6.999834	.1045989	2.825087	.0504081

Elem	Sr4077
Units	ppm
Avg	.2743442
Stddev	.0126939
%RSD	4.627001
#1	.2878031
#2	.2625869
#3	.2726424

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1080.784	31505.59	6452.308	928.8301	1673.504
Stddev	5.163	1249.58	214.258	34.7815	13.497
%RSD	.4776831	3.966208	3.320635	3.744655	.8065347
#1	1079.528	30062.70	6226.545	888.6890	1673.964
#2	1086.458	32225.40	6652.823	947.7712	1686.765
#3	1076.364	32228.67	6477.556	950.0299	1659.782

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4914-12 Acquired: 12/02/2024 20:53:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK4D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5000631	-.009302	6.029925	-.012556	.0089770	71.13913
Stddev	.0064510	.001851	.009615	.003042	.0005136	.12865
%RSD	1.290048	19.90222	.1594496	24.23087	5.721487	.1808439
#1	.5042960	-.007537	6.020677	-.009353	.0094669	71.17048
#2	.4926384	-.011229	6.029229	-.012907	.0090215	70.99770
#3	.5032550	-.009140	6.039869	-.015408	.0084426	71.24920

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.222849	.0044274	.0152799	84.76155	.2094757	.0919496
Stddev	.002047	.0002118	.0000313	.03643	.0032188	.0007514
%RSD	.0920880	4.784115	.2047841	.0429833	1.536586	.8172411
#1	2.222454	.0041971	.0153015	84.79317	.2064590	.0917885
#2	2.221028	.0046138	.0152440	84.72171	.2091039	.0912918
#3	2.225065	.0044713	.0152941	84.76976	.2128643	.0927686

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5603935	181.4040	7.555198	35.89186	.1909966	-.012560
Stddev	.0021837	.4170	.005845	.06560	.0008937	.001054
%RSD	.3896756	.2298549	.0773656	.1827736	.4679114	8.392619
#1	.5586332	181.7317	7.555755	35.95564	.1902891	-.013729
#2	.5628372	180.9347	7.560744	35.82458	.1906998	-.012267
#3	.5597103	181.5457	7.549094	35.89534	.1920010	-.011683

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.335086	.2166006	3.444444	8.372225	F 11.42170	.0496912
Stddev	.137970	.0053464	.047060	.157934	.04417	.0013959
%RSD	5.908565	2.468325	1.366246	1.886409	.3867092	2.809071
#1	2.390023	.2144036	3.390697	8.191616	11.40312	.0509611
#2	2.437125	.2226955	3.464384	8.484405	11.38986	.0481966
#3	2.178110	.2127027	3.478251	8.440655	11.47212	.0499159

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4914-12 Acquired: 12/02/2024 20:53:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK4D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0079557	6.027631	7.632029	.1075069	3.154329	.0570296
Stddev	.0005978	.014750	.033652	.0033577	.012031	.0014227
%RSD	7.514468	.2447104	.4409322	3.123252	.3814209	2.494656
#1	.0086456	6.011359	7.669381	.1091536	3.151612	.0577334
#2	.0076306	6.031408	7.604075	.1036437	3.143888	.0579631
#3	.0075909	6.040125	7.622631	.1097234	3.167486	.0553922

Elem	Sr4077
Units	ppm
Avg	.2799518
Stddev	.0001448
%RSD	.0517123
#1	.2800965
#2	.2799519
#3	.2798070

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1079.887	32136.85	6332.638	949.5952	1656.464
Stddev	4.204	371.85	22.727	14.6157	2.152
%RSD	.3893273	1.157072	.3588882	1.539154	.1299417
#1	1077.359	32519.84	6307.314	966.4518	1655.272
#2	1084.740	32113.46	6339.339	941.8814	1658.948
#3	1077.562	31777.25	6351.262	940.4525	1655.170

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4914-11LX5 Acquired: 12/02/2024 20:58:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK4L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1033392	.0039721	1.257202	-.004494	.0050895	14.76027	.4684694
Stddev	.0034647	.0014411	.003410	.009414	.0010443	.09088	.0012605
%RSD	3.352770	36.28098	.2712207	209.4579	20.51859	.6156995	.2690568
#1	.1056531	.0037393	1.260802	-.006499	.0062694	14.67214	.4699080
#2	.0993558	.0055155	1.256782	.005760	.0042842	14.85366	.4679411
#3	.1050088	.0026616	1.254021	-.012744	.0047147	14.75502	.4675591

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010014	.0026291	19.44100	.0443820	.0181018	.1185195	37.13005
Stddev	.0001650	.0001619	.02919	.0008528	.0004572	.0040747	.20573
%RSD	16.47207	6.159047	.1501220	1.921447	2.525560	3.438036	.5540873
#1	.0011896	.0026785	19.45048	.0448543	.0176959	.1155210	36.91521
#2	.0008818	.0027606	19.46427	.0433975	.0180124	.1231589	37.32526
#3	.0009329	.0024482	19.40826	.0448940	.0185971	.1168787	37.14968

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.653980	7.731428	.0376638	-.001732	.5571427	.0477531	.7406683
Stddev	.003789	.078236	.0004039	.000365	.1344421	.0016917	.0019065
%RSD	.2290898	1.011923	1.072410	21.07893	24.13064	3.542689	.2574060
#1	1.658319	7.726404	.0375543	-.001312	.7090726	.0496868	.7428695
#2	1.652302	7.812055	.0373259	-.001912	.5087940	.0465465	.7395981
#3	1.651320	7.655825	.0381111	-.001972	.4535615	.0470259	.7395373

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.350963	2.262157	.0048683	.0009337	1.202803	1.788422	.0224308
Stddev	.067203	.008853	.0010908	.0004555	.008352	.004674	.0013451
%RSD	4.974420	.3913680	22.40654	48.78764	.6943442	.2613489	5.996841
#1	1.420225	2.269502	.0061166	.0013606	1.195648	1.783067	.0216886
#2	1.286029	2.264643	.0040986	.0004541	1.200782	1.791683	.0216204
#3	1.346635	2.252327	.0043895	.0009865	1.211980	1.790515	.0239836

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4914-11LX5 Acquired: 12/02/2024 20:58:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK4L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6708451	-.006931	.0608522
Stddev	.0052640	.000198	.0001386
%RSD	.7846761	2.853006	.2277090
#1	.6651992	-.007124	.0609947
#2	.6756180	-.006941	.0608438
#3	.6717181	-.006729	.0607180

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1033.978	30447.12	5841.029	910.2799	1787.344
Stddev	1.442	58.24	18.162	1.5142	1.425
%RSD	.1394639	.1912770	.3109395	.1663410	.0797550
#1	1033.355	30394.19	5854.781	908.8932	1785.750
#2	1035.627	30437.66	5820.441	910.0509	1788.496
#3	1032.953	30509.51	5847.865	911.8955	1787.786

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4914-13 Acquired: 12/02/2024 21:02:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK4S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5261656	.0853934	5.841115	.1568442	.1752824	70.75284
Stddev	.0097063	.0022092	.026844	.0090833	.0020018	2.29331
%RSD	1.844720	2.587096	.4595735	5.791291	1.142026	3.241293
#1	.5354185	.0860145	5.871882	.1671518	.1729943	73.29428
#2	.5160619	.0829401	5.822464	.1500107	.1761427	70.12639
#3	.5270162	.0872256	5.828999	.1533701	.1767102	68.83786

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.112222	.1019215	.1136422	86.53999	.5986486	1.103322
Stddev	.207179	.0036995	.0002104	2.98363	.0018575	.003040
%RSD	3.389592	3.629717	.1851242	3.447690	.3102898	.2755679
#1	6.345588	.1059934	.1138849	89.89439	.5965092	1.106627
#2	6.041127	.1010041	.1135110	85.54330	.5995851	1.100644
#3	5.949950	.0987671	.1135308	84.18229	.5998515	1.102696

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9841595	166.0707	8.296500	34.41921	1.193696	.0781212
Stddev	.0346953	5.5169	.291164	.98207	.002892	.0007420
%RSD	3.525372	3.322016	3.509485	2.853271	.2422702	.9498414
#1	1.023802	172.1374	8.625833	35.45878	1.196655	.0772646
#2	.969347	164.7203	8.190415	34.29178	1.190877	.0785673
#3	.959329	161.3543	8.073252	33.50708	1.193554	.0785317

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.055583	1.246459	3.953980	7.717695	F 10.75639	.0453050
Stddev	.229768	.034463	.005389	.391540	.04905	.0049210
%RSD	11.17775	2.764903	.1362880	5.073283	.4560357	10.86202
#1	2.229362	1.281929	3.958627	8.159150	10.81247	.0489744
#2	1.795073	1.244349	3.948073	7.581479	10.72149	.0472278
#3	2.142315	1.213099	3.955241	7.412456	10.73520	.0397129

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4914-13 Acquired: 12/02/2024 21:02:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK4S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0073192	5.781102	7.742651	.1039160	3.010556	.0510694
Stddev	.0006451	.019328	.256074	.0017718	.093076	.0042669
%RSD	8.814374	.3343305	3.307319	1.704988	3.091648	8.355110
#1	.0073010	5.803298	8.027474	.1036585	3.111030	.0545098
#2	.0079732	5.772025	7.669023	.1058024	2.993363	.0524038
#3	.0066833	5.767983	7.531457	.1022871	2.927276	.0462948

Elem	Sr4077
Units	ppm
Avg	.2739621
Stddev	.0093483
%RSD	3.412248
#1	.2844486
#2	.2709360
#3	.2665017

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1075.955	32211.93	6149.507	942.5917	1674.447
Stddev	3.555	77.58	201.753	1.4758	7.675
%RSD	.3304082	.2408426	3.280798	.1565713	.4583655
#1	1072.314	32271.48	5926.319	941.9598	1665.585
#2	1079.417	32124.20	6203.268	944.2783	1678.925
#3	1076.133	32240.11	6318.934	941.5371	1678.832

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4915-08 Acquired: 12/02/2024 21:06:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0655628	-.009044	1.267168	-.005204	.0081571	73.00762
Stddev	.0040543	.006559	.013982	.005151	.0042892	.15925
%RSD	6.183882	72.52451	1.103395	98.96974	52.58202	.2181338
#1	.0645342	-.013878	1.280379	.000525	.0066953	72.82393
#2	.0700323	-.011675	1.268599	-.006685	.0129860	73.10687
#3	.0621218	-.001578	1.252525	-.009452	.0047899	73.09206

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8453916	.0040904	.0169320	170.1474	.1363813	.0897581
Stddev	.0026886	.0000994	.0002409	.4721	.0007835	.0009560
%RSD	.3180348	2.428961	1.422576	.2774718	.5744965	1.065123
#1	.8422872	.0041330	.0171723	169.6072	.1367388	.0905633
#2	.8469095	.0039768	.0166905	170.4806	.1354828	.0900095
#3	.8469780	.0041613	.0169333	170.3546	.1369222	.0887015

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3685701	182.2296	9.090732	48.13010	.1879383	-.015780
Stddev	.0015849	.3241	.023181	.12072	.0014044	.000101
%RSD	.4300079	.1778678	.2549949	.2508192	.7472759	.6430753
#1	.3671875	181.9570	9.064044	48.05608	.1880890	-.015821
#2	.3682231	182.5880	9.102287	48.06482	.1892613	-.015855
#3	.3702997	182.1438	9.105863	48.26941	.1864646	-.015665

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.915729	.2038594	1.259343	6.305693	F 10.62672	.0416218
Stddev	.270426	.0048129	.001029	.014652	.07324	.0014272
%RSD	14.11608	2.360907	.0817277	.2323538	.6891774	3.428859
#1	1.906500	.1991315	1.260531	6.296353	10.65465	.0405893
#2	1.650036	.2087531	1.258715	6.298148	10.68189	.0432504
#3	2.190652	.2036937	1.258784	6.322580	10.54363	.0410258

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4915-08 Acquired: 12/02/2024 21:06:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013750	1.931097	5.569855	.0644304	1.343543	.0726084
Stddev	.0007148	.019247	.003468	.0029258	.003678	.0001872
%RSD	51.98240	.9966995	.0622651	4.540995	.2737792	.2578161
#1	.0006153	1.946526	5.572676	.0677696	1.340276	.0724468
#2	.0014755	1.937236	5.570905	.0632054	1.347527	.0725649
#3	.0020341	1.909529	5.565983	.0623162	1.342826	.0728135

Elem	Sr4077
Units	ppm
Avg	.2834893
Stddev	.0007457
%RSD	.2630481
#1	.2826765
#2	.2836495
#3	.2841419

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1151.821	34395.60	6811.221	1010.733	1602.360
Stddev	3.007	15.92	.466	1.281	11.920
%RSD	.2610955	.0462852	.0068346	.1267575	.7438826
#1	1152.161	34389.72	6810.746	1011.223	1593.935
#2	1148.658	34383.45	6811.240	1011.698	1597.147
#3	1154.644	34413.62	6811.676	1009.280	1615.998

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4915-09 Acquired: 12/02/2024 21:11:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM8D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0649183	-.010302	1.180754	-.013037	.0127020	60.68120	.7552267
Stddev	.0089126	.006127	.001653	.000981	.0032536	.22187	.0015427
%RSD	13.72894	59.47886	.1400200	7.522104	25.61477	.3656374	.2042707
#1	.0680928	-.013725	1.182660	-.013593	.0093297	60.68374	.7553336
#2	.0548531	-.013952	1.179903	-.013613	.0158222	60.90179	.7567131
#3	.0718091	-.003228	1.179701	-.011905	.0129541	60.45806	.7536333

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0036896	.0141887	148.4648	.1203121	.0791861	.3428997	180.4368
Stddev	.0001348	.0001747	.3030	.0015596	.0007022	.0021349	.6466
%RSD	3.653589	1.231102	.2040755	1.296253	.8867639	.6225875	.3583401
#1	.0035501	.0143342	148.5421	.1186209	.0793741	.3422719	180.6267
#2	.0038191	.0139950	148.7216	.1216935	.0797751	.3411491	180.9672
#3	.0036994	.0142369	148.1306	.1206219	.0784090	.3452780	179.7166

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.089189	39.01895	.1634676	-.014863	1.736920	.1736538	1.100213
Stddev	.012243	.06933	.0013742	.000420	.188523	.0029043	.004360
%RSD	.1513491	.1776828	.8406621	2.828089	10.85390	1.672479	.3962638
#1	8.100863	39.07645	.1618810	-.014670	1.935721	.1750137	1.104967
#2	8.090256	39.03843	.1642840	-.015345	1.560711	.1703190	1.099271
#3	8.076448	38.94196	.1642378	-.014574	1.714326	.1756286	1.096401

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.926371	8.110685	.0341672	.0014054	1.650322	5.062697	.0602216
Stddev	.046007	.023053	.0056243	.0011629	.009477	.034516	.0025058
%RSD	.9338906	.2842280	16.46111	82.74226	.5742695	.6817652	4.160926
#1	4.955238	8.133178	.0403137	.0027121	1.639398	5.037465	.0596083
#2	4.873316	8.111766	.0292778	.0010197	1.656349	5.102031	.0580794
#3	4.950560	8.087110	.0329102	.0004844	1.655219	5.048596	.0629771

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4915-09 Acquired: 12/02/2024 21:11:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM8D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.165400	.0547103	.2293365
Stddev	.004801	.0010600	.0003684
%RSD	.4119872	1.937553	.1606491
#1	1.167671	.0548642	.2294762
#2	1.168644	.0556850	.2296147
#3	1.159885	.0535817	.2289187

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1122.000	33499.47	6604.534	986.1149	1628.606
Stddev	.620	125.61	17.579	3.7414	1.814
%RSD	.0552463	.3749701	.2661593	.3794094	.1113753
#1	1122.508	33450.53	6623.754	981.8150	1626.573
#2	1122.182	33642.19	6589.271	988.6273	1629.188
#3	1121.309	33405.71	6600.577	987.9024	1630.058

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4915-08LX5 Acquired: 12/02/2024 21:15:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM8L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0153641	.0018071	.2684958	.0004011	.0008252	17.01687	.2013057
Stddev	.0079154	.0056534	.0054423	.0026718	.0023004	.06466	.0012877
%RSD	51.51890	312.8390	2.026950	666.1227	278.7554	.3799772	.6396652
#1	.0105013	.0082215	.2639104	.0026827	.0034694	17.09117	.2019164
#2	.0244977	-.002450	.2745099	.0010587	-.000716	16.98612	.2021745
#3	.0110934	-.000350	.2670670	-.002538	-.000278	16.97333	.1998263

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011190	.0030630	41.05027	.0341109	.0173602	.0888864	44.63281
Stddev	.0001282	.0001534	.04351	.0005036	.0003938	.0031701	.04092
%RSD	11.45474	5.007779	.1059931	1.476365	2.268351	3.566441	.0916911
#1	.0010920	.0032137	41.09857	.0336082	.0177830	.0925336	44.66365
#2	.0010065	.0030684	41.03813	.0341092	.0170039	.0873318	44.58638
#3	.0012586	.0029070	41.01412	.0346154	.0172937	.0867937	44.64839

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.225702	11.58713	.0392415	-.002301	.6579995	.0458264	.3053242
Stddev	.005429	.04254	.0004362	.000323	.1587495	.0055673	.0001310
%RSD	.2439352	.3670928	1.111486	14.03704	24.12608	12.14869	.0429086
#1	2.231929	11.61085	.0393736	-.001975	.5975179	.0394766	.3052405
#2	2.221954	11.53802	.0395964	-.002309	.8380998	.0498705	.3054751
#3	2.223225	11.61250	.0387546	-.002621	.5383808	.0481319	.3052569

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.026091	2.177304	.0022833	-.000757	.3926324	1.244658	.0146602
Stddev	.080052	.009517	.0017444	.000796	.0027000	.002428	.0013396
%RSD	7.801661	.4370992	76.39834	105.2463	.6876796	.1950732	9.137901
#1	1.045555	2.179534	.0003523	-.000177	.3945980	1.247395	.0131669
#2	1.094617	2.185508	.0037452	-.000428	.3895538	1.243818	.0157562
#3	.938102	2.166870	.0027525	-.001665	.3937455	1.242762	.0150577

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4915-08LX5 Acquired: 12/02/2024 21:15:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM8L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3152392	-.001548	.0674298
Stddev	.0010049	.001033	.0000682
%RSD	.3187643	66.72418	.1011718
#1	.3163904	-.000434	.0675030
#2	.3147889	-.001736	.0673679
#3	.3145382	-.002474	.0674184

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1044.270	30895.24	5934.004	926.8651	1746.544
Stddev	8.435	63.45	23.112	2.4213	16.530
%RSD	.8077026	.2053659	.3894832	.2612331	.9464171
#1	1049.421	30832.49	5919.206	928.8104	1752.139
#2	1034.536	30893.87	5922.170	924.1534	1727.943
#3	1048.854	30959.37	5960.636	927.6316	1759.549

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4915-10 Acquired: 12/02/2024 21:20:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM8S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1482139	.0868485	1.290729	.1398567	.1605708	73.66762
Stddev	.0053898	.0045122	.002986	.0036432	.0034575	.69873
%RSD	3.636480	5.195465	.2313686	2.604947	2.153263	.9484917
#1	.1544248	.0885359	1.293990	.1438777	.1588168	73.92453
#2	.1447655	.0902739	1.288128	.1367755	.1645538	74.20153
#3	.1454512	.0817358	1.290069	.1389169	.1583419	72.87681

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.368333	.0910638	.1187590	167.3161	.5083533	1.111111
Stddev	.051330	.0011571	.0003089	1.9789	.0016531	.001908
%RSD	1.175046	1.270674	.2601036	1.182757	.3251789	.1716918
#1	4.394360	.0917033	.1186243	168.5708	.5100137	1.109541
#2	4.401435	.0917600	.1185403	168.3428	.5083385	1.110557
#3	4.309203	.0897280	.1191124	165.0349	.5067077	1.113234

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7709355	180.6718	9.832944	47.09007	1.209515	.0680626
Stddev	.0105436	1.5014	.133087	.34748	.005138	.0002754
%RSD	1.367636	.8310269	1.353485	.7379059	.4248254	.4046068
#1	.7772115	181.5890	9.913240	47.31609	1.206133	.0677793
#2	.7768321	181.4873	9.906271	47.26417	1.206984	.0680792
#3	.7587628	178.9391	9.679320	46.68996	1.215428	.0683293

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.897726	1.110329	1.977373	5.875215	F 10.56288	.0347442
Stddev	.151842	.008296	.004643	.094299	.01858	.0030623
%RSD	8.001237	.7471833	.2348021	1.605026	.1758710	8.813874
#1	2.068547	1.116837	1.974335	5.836813	10.55287	.0312179
#2	1.846539	1.113164	1.975066	5.982656	10.58432	.0367337
#3	1.778094	1.100987	1.982717	5.806176	10.55145	.0362812

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4915-10 Acquired: 12/02/2024 21:20:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM8S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019193	1.936165	4.864856	.0643179	1.285266	.0689361
Stddev	.0005390	.018961	.048217	.0023674	.010790	.0018145
%RSD	28.08494	.9793170	.9911313	3.680821	.8394807	2.632164
#1	.0013532	1.914276	4.907456	.0618688	1.289733	.0709681
#2	.0019783	1.946677	4.874601	.0644906	1.293105	.0683625
#3	.0024263	1.947541	4.812511	.0665942	1.272960	.0674777

Elem	Sr4077
Units	ppm
Avg	.2769215
Stddev	.0034421
%RSD	1.242979
#1	.2787830
#2	.2790320
#3	.2729496

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1147.577	34378.02	6853.837	1007.406	1601.850
Stddev	.727	34.10	54.404	3.541	2.829
%RSD	.0633111	.0991989	.7937783	.3515015	.1766088
#1	1148.171	34361.49	6808.664	1011.216	1604.328
#2	1147.793	34417.24	6838.616	1006.786	1602.454
#3	1146.767	34355.34	6914.231	1004.216	1598.767

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4915-06 Acquired: 12/02/2024 21:24:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033639	.0037467	.0004085	.0028878	.0012485	.0545853	.0043474
Stddev	.0037416	.0002958	.0013150	.0022328	.0011073	.0053622	.0000179
%RSD	111.2286	7.895041	321.9316	77.31645	88.69358	9.823556	.4105836
#1	.0058738	.0037762	-.000113	.0053854	.0007891	.0604716	.0043282
#2	.0051545	.0034372	-.000566	.0021930	.0025116	.0533057	.0043635
#3	-.000937	.0040266	.001904	.0010851	.0004448	.0499787	.0043507

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001077	-.000083	.6192931	.0089770	.0013110	-.000403	.6540173
Stddev	.0001098	.000170	.0052683	.0002327	.0001756	.004095	.0133702
%RSD	101.9613	204.3062	.8507004	2.592672	13.39175	1016.815	2.044313
#1	.0000384	.000009	.6247833	.0087390	.0012887	-.004639	.6447914
#2	.0000504	.000021	.6142790	.0092041	.0014967	-.000104	.6693505
#3	.0002342	-.000279	.6188171	.0089879	.0011477	.003535	.6479100

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0474051	.1793038	.0282150	-.001702	.3124365	-.003897	.0036128
Stddev	.0000821	.0199996	.0008805	.000424	.0343480	.006369	.0004073
%RSD	.1732158	11.15400	3.120816	24.90112	10.99360	163.4177	11.27240
#1	.0473117	.2005959	.0282769	-.002156	.2902116	.001843	.0040574
#2	.0474377	.1764015	.0273051	-.001318	.2951004	-.002786	.0035233
#3	.0474659	.1609139	.0290629	-.001630	.3519977	-.010748	.0032577

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-3.54286	.0228003	-.008818	.0000501	.0104158	.0269082	-.001497
Stddev	.11237	.0020681	.000880	.0007015	.0020522	.0004375	.001284
%RSD	3.171693	9.070725	9.976201	1400.180	19.70331	1.626023	85.78009
#1	-3.62913	.0250381	-.009833	.0004560	.0108624	.0274130	-.002097
#2	-3.41579	.0209593	-.008276	.0004542	.0122080	.0266386	-.002370
#3	-3.58365	.0224034	-.008345	-.000760	.0081770	.0266729	-.000023

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4915-06 Acquired: 12/02/2024 21:24:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0019913	-.047548	.0013724
Stddev	.0014658	.001185	.0000562
%RSD	73.60786	2.492713	4.097812
#1	.0036741	-.048778	.0013104
#2	.0009931	-.046413	.0013865
#3	.0013068	-.047453	.0014202

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1086.962	31703.11	5908.995	957.9546	2004.374
Stddev	4.741	60.16	14.908	3.8737	8.094
%RSD	.4361737	.1897619	.2522857	.4043714	.4038061
#1	1086.475	31769.95	5910.843	959.6123	2007.209
#2	1091.928	31653.29	5922.893	953.5279	2010.670
#3	1082.483	31686.09	5893.250	960.7236	1995.245

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCV074 Acquired: 12/02/2024 21:29:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV074 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.415642	5.081214	24.88746	4.967582	4.759553	401.2965
Stddev	.014265	.022750	.02644	.018206	.019903	1.9522
%RSD	.2634030	.4477326	.1062182	.3664986	.4181713	.4864808
#1	5.431789	5.107217	24.89608	4.953957	4.751105	400.2989
#2	5.410388	5.071445	24.85780	4.988259	4.782287	403.5459
#3	5.404749	5.064979	24.90852	4.960530	4.745268	400.0445

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.994878	.5062368	2.632331	402.9738	15.38672	2.508869
Stddev	.115156	.0030025	.001067	.0846	.03774	.002814
%RSD	1.152147	.5931018	.0405154	.0210044	.2453075	.1121593
#1	10.06670	.5071959	2.631101	402.8888	15.39463	2.512050
#2	10.05588	.5086425	2.632985	402.9747	15.41987	2.507853
#3	9.86205	.5028719	2.632909	403.0581	15.34564	2.506705

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.83331	402.6952	14.72753	418.3083	2.483803	1.265430
Stddev	.01641	.2298	.02128	.3307	.003596	.005628
%RSD	.1106302	.0570714	.1444710	.0790682	.1447662	.4447252
#1	14.85097	402.7254	14.75099	418.3529	2.487723	1.269582
#2	14.81854	402.4518	14.70947	417.9575	2.483030	1.267683
#3	14.83041	402.9085	14.72215	418.6145	2.480658	1.259025

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	399.6867	2.477023	14.39364	151.9430	4.975340	F 4.259806
Stddev	.2703	.008165	.07811	.1292	.006852	.026975
%RSD	.0676168	.3296273	.5426704	.0850002	.1377180	.6332465
#1	399.7313	2.474938	14.47612	152.0659	4.968007	4.266892
#2	399.3969	2.470103	14.38402	151.8084	4.976434	4.282530
#3	399.9319	2.486029	14.32079	151.9548	4.981579	4.229995

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCV074 Acquired: 12/02/2024 21:29:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV074 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.817554	5.028284	F 3.416110	5.023155	4.986657	4.849456
Stddev	.006603	.006051	.018157	.003730	.014870	.004521
%RSD	.1370525	.1203453	.5315204	.0742499	.2981879	.0932178
#1	4.824708	5.025788	3.427436	5.027460	5.002797	4.852174
#2	4.816258	5.035184	3.425728	5.021109	4.973515	4.844237
#3	4.811695	5.023880	3.395167	5.020896	4.983658	4.851956

Elem	Sr4077
Units	ppm
Avg	5.017248
Stddev	.010613
%RSD	.2115278
#1	5.012939
#2	5.029338
#3	5.009467

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	806.9507	25626.31	5388.857	664.8656	1323.403
Stddev	2.2962	33.96	15.442	3.6098	3.359
%RSD	.2845469	.1325194	.2865571	.5429334	.2537880
#1	804.3503	25588.15	5380.503	660.7143	1320.011
#2	807.8027	25637.55	5379.391	667.2658	1326.727
#3	808.6991	25653.22	5406.676	666.6167	1323.471

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCB074 Acquired: 12/02/2024 21:33:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB074 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045012	-.001344	-.001288	.0037792	.0012014	.0012870	.0001722
Stddev	.0026781	.004110	.000806	.0044265	.0016614	.0051237	.0006539
%RSD	59.49732	305.6974	62.61492	117.1263	138.2903	398.1204	379.6681
#1	.0073938	.000228	-.000370	.0022569	-.000239	.0068205	-.000580
#2	.0021079	.001747	-.001884	.0003148	.003019	.0003333	.000495
#3	.0040018	-.006008	-.001609	.0087660	.000825	-.003293	.000602

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000394	-.000176	.0165146	.0005381	-.000266	-.002537	.0022275
Stddev	.0001424	.000036	.0114290	.0006895	.000312	.003246	.0085618
%RSD	361.4057	20.29682	69.20527	128.1333	117.1932	127.9172	384.3723
#1	-.000125	-.000147	.0296212	.0004702	-.000403	.000238	.0098874
#2	.000132	-.000215	.0086251	-.000115	-.000486	-.001744	-.007015
#3	.000111	-.000165	.0112976	.001259	.000091	-.006106	.003810

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007561	.0157682	.0007699	.0009314	.0243273	-.003383	-.000131
Stddev	.0004962	.0251125	.0001886	.0004260	.4299757	.001581	.000541
%RSD	65.62600	159.2601	24.50117	45.74347	1767.459	46.73423	413.3232
#1	.0013024	.0408770	.0009556	.0013585	.1559422	-.004978	-.000112
#2	.0003335	.0157755	.0007758	.0009293	.3731128	-.001816	-.000681
#3	.0006324	-.009348	.0005784	.0005064	-.456073	-.003357	.000401

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.255026	.0038920	-.001051	.0002403	-.000274	.0004257	-.001698
Stddev	.079283	.0053128	.001313	.0004642	.000598	.0001945	.001810
%RSD	31.08800	136.5042	124.9009	193.1965	217.9593	45.69176	106.5907
#1	-.326364	.0096971	-.000078	.0007740	.000067	.0006201	-.003269
#2	-.169669	-.000728	-.000531	.0000154	-.000965	.0002311	.000281
#3	-.269045	.002707	-.002544	-.000069	.000075	.0004258	-.002104

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCB074 Acquired: 12/02/2024 21:33:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB074 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0006258	-.011828	.0001555
Stddev	.0010416	.000143	.0000637
%RSD	166.4552	1.205359	40.93058
#1	.0015540	-.011849	.0000832
#2	.0008242	-.011959	.0001804
#3	-.000501	-.011676	.0002030

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1009.829	29638.03	5633.246	888.7102	1860.498
Stddev	.481	115.58	62.814	3.5099	1.944
%RSD	.0475836	.3899784	1.115063	.3949450	.1044726
#1	1009.702	29513.99	5575.318	888.9498	1859.684
#2	1009.425	29657.38	5700.011	885.0867	1859.094
#3	1010.360	29742.71	5624.411	892.0942	1862.717

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-14 Acquired: 12/02/2024 21:38:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHS4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031364	-.002356	.0005209	.0040148	-.002319	.0111902	.0008574
Stddev	.0039239	.000941	.0018051	.0028104	.002867	.0017132	.0001991
%RSD	125.1078	39.95970	346.5284	70.00151	123.6264	15.30975	23.22372
#1	.0007183	-.001782	-.000562	.0029542	-.003470	.0120429	.0007830
#2	.0010271	-.003442	.002605	.0018890	.000945	.0092180	.0007062
#3	.0076638	-.001843	-.000480	.0072012	-.004431	.0123098	.0010830

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000786	-.000045	.1111090	.0003907	.0004011	.0010013	.0936803
Stddev	.0000498	.000077	.0016461	.0003787	.0001231	.0012752	.0016894
%RSD	63.31763	171.8281	1.481487	96.93672	30.69343	127.3589	1.803331
#1	.0001246	-.000128	.1126852	.0002884	.0003942	.0017835	.0919746
#2	.0000854	-.000030	.1112408	.0008101	.0002815	.0016906	.0937135
#3	.0000258	.000024	.1094010	.0000736	.0005274	-.000470	.0953528

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040512	-.015568	.0012307	-.001618	.7024463	-.006413	-.000189
Stddev	.0002906	.022407	.0002456	.000141	.0288292	.005298	.000400
%RSD	7.174350	143.9249	19.95597	8.731132	4.104116	82.61603	211.4273
#1	.0038158	-.029639	.0012614	-.001766	.7112716	-.003980	-.000645
#2	.0039617	-.027337	.0014595	-.001604	.6702360	-.012491	-.000025
#3	.0043760	.010271	.0009712	-.001485	.7258313	-.002769	.000103

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-3.68986	.0010571	-.005430	.0001807	.0138865	.0157751	-.001571
Stddev	.15634	.0024307	.001153	.0001850	.0060961	.0006425	.001579
%RSD	4.236928	229.9460	21.23747	102.4024	43.89912	4.072951	100.4923
#1	-3.76990	.0034801	-.004115	.0000763	.0153236	.0156948	-.002725
#2	-3.78997	-.001381	-.006271	.0000714	.0191357	.0151765	-.002216
#3	-3.50971	.001072	-.005903	.0003943	.0072003	.0164540	.000228

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-14 Acquired: 12/02/2024 21:38:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHS4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0025149	-.046955	.0002053
Stddev	.0004059	.000353	.0001068
%RSD	16.14032	.7518299	52.03918
#1	.0025008	-.047022	.0003207
#2	.0029276	-.047270	.0001099
#3	.0021162	-.046573	.0001852

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1086.175	31665.99	5881.848	958.5939	2012.191
Stddev	1.882	64.25	19.254	4.5213	5.170
%RSD	.1732468	.2029039	.3273516	.4716609	.2569140
#1	1087.075	31700.43	5859.725	963.7757	2016.730
#2	1087.438	31705.67	5894.825	955.4517	2013.281
#3	1084.013	31591.86	5890.993	956.5543	2006.564

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-01 Acquired: 12/02/2024 21:42:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHS5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0926701	-.008419	2.704568	-.005426	.0048725	52.81824	1.042189
Stddev	.0094394	.005309	.010230	.001549	.0026377	.55407	.011936
%RSD	10.18601	63.05376	.3782311	28.54410	54.13338	1.049013	1.145245
#1	.1012232	-.002592	2.708882	-.005577	.0045356	53.18169	1.051548
#2	.0942446	-.012981	2.711934	-.006895	.0076625	53.09251	1.046272
#3	.0825425	-.009685	2.692888	-.003808	.0024195	52.18053	1.028748

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039117	.0125228	71.91100	.1257018	.0734178	.3180921	137.3040
Stddev	.0000469	.0000816	.67487	.0007517	.0005560	.0046924	1.3466
%RSD	1.199323	.6513954	.9384759	.5979686	.7573089	1.475180	.9807451
#1	.0038685	.0125391	72.37524	.1248371	.0740549	.3226991	138.2500
#2	.0039049	.0125950	72.22093	.1260699	.0731681	.3182585	137.8997
#3	.0039616	.0124343	71.13684	.1261985	.0730304	.3133187	135.7622

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.72979	30.24385	.1844035	-.012968	1.452445	.1707792	2.025068
Stddev	.10861	.25001	.0007319	.000709	.245606	.0034674	.014122
%RSD	1.012185	.8266624	.3969224	5.467805	16.90986	2.030344	.6973366
#1	10.79135	30.36953	.1851493	-.012488	1.519089	.1740451	2.020458
#2	10.79363	30.40609	.1843748	-.013782	1.657851	.1671404	2.013828
#3	10.60439	29.95593	.1836863	-.012634	1.180394	.1711523	2.040919

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.076071	7.790923	.0536398	.0052074	4.350559	4.081568	.0526069
Stddev	.128029	.023654	.0006074	.0002614	.023187	.033070	.0011161
%RSD	3.141001	.3036126	1.132451	5.019892	.5329613	.8102341	2.121559
#1	4.087254	7.806665	.0542695	.0054026	4.360739	4.093719	.0517107
#2	4.198142	7.802382	.0535924	.0049105	4.366914	4.106844	.0522529
#3	3.942816	7.763721	.0530574	.0053093	4.324024	4.044141	.0538570

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-01 Acquired: 12/02/2024 21:42:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHS5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.076953	.0432636	.1234565
Stddev	.010173	.0008874	.0014328
%RSD	.9445680	2.051060	1.160595
#1	1.084402	.0432474	.1244749
#2	1.081096	.0441590	.1240766
#3	1.065363	.0423845	.1218181

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1107.976	33335.27	6551.098	972.7582	1676.616
Stddev	4.731	192.18	51.094	6.4199	9.583
%RSD	.4269653	.5765202	.7799256	.6599716	.5715766
#1	1102.523	33155.29	6504.707	973.2446	1667.372
#2	1110.987	33537.69	6542.727	978.9211	1675.969
#3	1110.417	33312.84	6605.861	966.1089	1686.506

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-02 Acquired: 12/02/2024 21:47:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHS6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1292098	-.004113	3.624741	-.012106	.0062383	62.48425
Stddev	.0118787	.004328	.027414	.005981	.0011361	.17629
%RSD	9.193326	105.2160	.7563018	49.40367	18.21111	.2821418
#1	.1332820	-.008701	3.651919	-.005466	.0055351	62.68198
#2	.1385168	-.003535	3.597097	-.013783	.0056309	62.42732
#3	.1158306	-.000104	3.625209	-.017070	.0075490	62.34346

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.326947	.0052934	.0174592	75.89196	.1489396	.0995993
Stddev	.005234	.0001351	.0000914	.24616	.0006133	.0009617
%RSD	.3944698	2.552248	.5232690	.3243552	.4117919	.9655920
#1	1.329819	.0054459	.0174586	76.06200	.1494279	.0999946
#2	1.320905	.0052458	.0175509	75.60968	.1482512	.0985029
#3	1.330117	.0051886	.0173681	76.00419	.1491395	.1003004

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3950196	171.8417	13.95160	33.10956	.2350104	-.015924
Stddev	.0010297	.5372	.04157	.05468	.0014017	.000260
%RSD	.2606640	.3126199	.2979841	.1651526	.5964349	1.632949
#1	.3956357	172.4515	13.96157	33.11936	.2350062	-.015628
#2	.3938309	171.6357	13.90595	33.15868	.2336108	-.016114
#3	.3955922	171.4380	13.98728	33.05064	.2364142	-.016032

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.708501	.2014701	2.533924	3.082417	F 10.30914	.0503135
Stddev	.373027	.0034862	.013018	.037575	.04227	.0030023
%RSD	21.83356	1.730403	.5137565	1.219002	.4100376	5.967082
#1	1.849067	.2014165	2.545372	3.117223	10.34534	.0534780
#2	1.990822	.1980110	2.519763	3.042581	10.26269	.0499571
#3	1.285614	.2049829	2.536638	3.087448	10.31941	.0475054

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-02 Acquired: 12/02/2024 21:47:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHS6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0058198	5.115329	7.700398	.0736477	1.235466	.0505060
Stddev	.0004926	.055470	.015736	.0039933	.007717	.0009873
%RSD	8.463478	1.084383	.2043543	5.422141	.6246511	1.954827
#1	.0053972	5.157154	7.705804	.0781009	1.242031	.0511674
#2	.0057015	5.052406	7.682671	.0724571	1.237403	.0509794
#3	.0063608	5.136427	7.712719	.0703851	1.226965	.0493711

Elem	Sr4077
Units	ppm
Avg	.1467093
Stddev	.0001830
%RSD	.1247544
#1	.1467486
#2	.1465099
#3	.1468695

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1186.580	35209.04	6839.623	1048.137	1681.104
Stddev	9.677	117.57	10.747	4.243	9.825
%RSD	.8154972	.3339222	.1571289	.4047963	.5844424
#1	1178.696	35086.59	6833.791	1045.731	1673.398
#2	1197.379	35321.04	6852.026	1053.036	1692.168
#3	1183.666	35219.48	6833.053	1045.645	1677.748

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-03 Acquired: 12/02/2024 21:51:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHT6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1033663	-.009490	4.986828	.0007687	.0908857	67.35604
Stddev	.0096919	.007807	.019998	.0127711	.0019023	.47335
%RSD	9.376258	82.26503	.4010247	1661.362	2.093061	.7027588
#1	.1045337	-.014507	4.975915	-.011834	.0887557	66.92767
#2	.0931435	-.000495	4.974660	.013702	.0914862	67.27624
#3	.1124216	-.013469	5.009908	.000438	.0924153	67.86422

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.332913	.0048591	.0161953	312.2350	.1879197	.0728157
Stddev	.013715	.0001470	.0004801	2.0566	.0105113	.0005182
%RSD	.5879050	3.024984	2.964216	.6586783	5.593478	.7117206
#1	2.322120	.0046894	.0157302	310.4789	.1769243	.0726884
#2	2.328273	.0049412	.0166890	311.7286	.1978684	.0733857
#3	2.348347	.0049467	.0161668	314.4975	.1889666	.0723730

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6476402	142.6887	5.269317	58.33098	.2074511	-.006714
Stddev	.0019074	1.0124	.029364	.34890	.0008536	.002863
%RSD	.2945100	.7094935	.5572655	.5981334	.4114606	42.64325
#1	.6455369	141.6480	5.244258	58.04422	.2065304	-.009892
#2	.6492577	142.7481	5.262065	58.22929	.2082161	-.004334
#3	.6481261	143.6701	5.301627	58.71942	.2076068	-.005917

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.530818	.1876382	2.845986	12.55957	F 17.99163	.0730417
Stddev	.184716	.0053092	.158683	.13722	.06902	.0042951
%RSD	7.298652	2.829486	5.575688	1.092548	.3836207	5.880301
#1	2.452481	.1820895	2.668696	12.49137	17.92123	.0744140
#2	2.398181	.1926701	2.974713	12.46981	17.99448	.0682282
#3	2.741793	.1881550	2.894549	12.71752	18.05918	.0764830

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-03 Acquired: 12/02/2024 21:51:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHT6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0066911	5.613995	5.549457	.3969997	1.297412	.0787433
Stddev	.0008692	.021747	.105323	.0019407	.009226	.0015110
%RSD	12.98984	.3873773	1.897901	.4888529	.7110757	1.918830
#1	.0058791	5.594466	5.428239	.3952081	1.289245	.0782722
#2	.0076080	5.610088	5.618581	.3990613	1.295571	.0775239
#3	.0065863	5.637431	5.601552	.3967297	1.307419	.0804336

Elem	Sr4077
Units	ppm
Avg	.6193329
Stddev	.0039119
%RSD	.6316270
#1	.6165732
#2	.6176158
#3	.6238096

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1084.485	33066.18	6465.653	976.9489	1550.935
Stddev	2.013	1539.01	47.078	42.7901	5.466
%RSD	.1856192	4.654326	.7281305	4.379972	.3524029
#1	1086.446	34743.29	6516.275	1024.955	1556.814
#2	1084.584	31718.69	6457.499	942.819	1549.984
#3	1082.424	32736.55	6423.183	963.072	1546.008

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-04 Acquired: 12/02/2024 21:55:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHT7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1081091	-.006725	5.413194	-.009325	.0133468	82.00705
Stddev	.0083127	.006869	.016693	.006899	.0017478	3.47043
%RSD	7.689161	102.1328	.3083690	73.98292	13.09504	4.231863
#1	.1008359	-.012237	5.413184	-.010505	.0113600	78.09551
#2	.1171703	.000970	5.396507	-.001912	.0146470	84.71697
#3	.1063211	-.008908	5.429892	-.015558	.0140334	83.20867

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.645119	.0059971	.0177039	343.9995	.1856483	.0793060
Stddev	.103172	.0002586	.0004745	14.2389	.0003048	.0014026
%RSD	3.900456	4.311332	2.680356	4.139209	.1641864	1.768614
#1	2.529551	.0057523	.0182278	327.8822	.1859510	.0797981
#2	2.727950	.0059715	.0173029	354.8724	.1853414	.0777236
#3	2.677857	.0062675	.0175810	349.2438	.1856525	.0803962

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7696900	155.7726	5.506097	59.89946	.2240985	-.006794
Stddev	.0287753	6.8278	.222093	2.44383	.0007828	.000660
%RSD	3.738560	4.383171	4.033586	4.079888	.3493139	9.712240
#1	.7375364	148.1239	5.254797	57.13432	.2249647	-.006049
#2	.7930213	161.2529	5.676037	61.76969	.2234417	-.007303
#3	.7785124	157.9408	5.587457	60.79436	.2238892	-.007032

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.676738	.2193096	3.133997	11.06518	F 17.48526	.0711827
Stddev	.067090	.0081096	.011180	.49453	.05350	.0041201
%RSD	2.506411	3.697788	.3567403	4.469265	.3059747	5.788091
#1	2.645058	.2099462	3.145417	10.52445	17.44271	.0673198
#2	2.753802	.2238855	3.123073	11.49450	17.46775	.0755191
#3	2.631354	.2240971	3.133501	11.17661	17.54532	.0707090

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-04 Acquired: 12/02/2024 21:55:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHT7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0070041	4.616862	6.158893	.1823645	1.297564	.1005263
Stddev	.0007682	.009617	.233154	.0006583	.055549	.0049971
%RSD	10.96825	.2083061	3.785653	.3609642	4.281017	4.970985
#1	.0067504	4.623828	5.892237	.1827179	1.235191	.0947562
#2	.0078671	4.605889	6.324347	.1816050	1.341707	.1034379
#3	.0063948	4.620869	6.260094	.1827706	1.315795	.1033848

Elem	Sr4077
Units	ppm
Avg	.7381165
Stddev	.0285231
%RSD	3.864310
#1	.7062604
#2	.7612874
#3	.7468018

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1099.934	32934.35	6664.459	974.6260	1538.661
Stddev	2.076	17.23	252.749	5.2059	4.899
%RSD	.1887144	.0523160	3.792486	.5341415	.3184128
#1	1098.653	32942.15	6953.379	970.4736	1534.276
#2	1102.329	32914.60	6484.277	980.4664	1543.949
#3	1098.820	32946.31	6555.721	972.9379	1537.758

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-05 Acquired: 12/02/2024 22:00:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHT8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1567190	-.014806	7.684534	-.004470	.0121975	76.78510
Stddev	.0065256	.004067	.058153	.004640	.0044477	.84851
%RSD	4.163871	27.46685	.7567567	103.7824	36.46395	1.105045
#1	.1628193	-.014978	7.744378	-.003084	.0082732	77.26073
#2	.1574994	-.010656	7.628234	-.000682	.0112905	77.28911
#3	.1498384	-.018784	7.680991	-.009645	.0170287	75.80546

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.505871	.0064860	.0215870	351.6400	.1981036	.0932729
Stddev	.035071	.0000875	.0002452	2.8655	.0019653	.0001932
%RSD	1.000364	1.348426	1.135779	.8148908	.9920352	.2071486
#1	3.525486	.0064140	.0218699	352.9452	.1999815	.0932877
#2	3.526747	.0065833	.0214351	353.6205	.1982680	.0930727
#3	3.465381	.0064606	.0214561	348.3543	.1960613	.0934583

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9310016	210.1833	6.240855	53.39990	.2300636	-.009442
Stddev	.0114539	2.0630	.049267	.31545	.0015470	.000152
%RSD	1.230277	.9815376	.7894252	.5907226	.6724066	1.607761
#1	.9408053	211.0332	6.270305	53.54840	.2317643	-.009267
#2	.9337880	211.6856	6.268280	53.61370	.2287401	-.009540
#3	.9184116	207.8311	6.183978	53.03762	.2296864	-.009520

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.757423	.2476471	3.955394	9.872098	F 22.63044	.0786746
Stddev	.118193	.0050194	.061101	.158850	.16517	.0004750
%RSD	4.286355	2.026824	1.544741	1.609077	.7298405	.6037474
#1	2.821480	.2498286	3.981416	9.923541	22.75714	.0782675
#2	2.829760	.2512065	3.999175	9.998852	22.44364	.0785598
#3	2.621029	.2419060	3.885590	9.693903	22.69055	.0791965

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-05 Acquired: 12/02/2024 22:00:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHT8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0087119	4.278012	5.778571	.3311357	1.046829	.1032476
Stddev	.0003466	.041400	.053951	.0051245	.011596	.0025601
%RSD	3.977999	.9677496	.9336386	1.547539	1.107712	2.479578
#1	.0089567	4.324086	5.819319	.3304442	1.053390	.1048249
#2	.0083153	4.243935	5.799006	.3263921	1.053657	.1046242
#3	.0088635	4.266014	5.717387	.3365707	1.033440	.1002937

Elem	Sr4077
Units	ppm
Avg	.8114278
Stddev	.0081248
%RSD	1.001303
#1	.8169437
#2	.8152421
#3	.8020976

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1111.033	33202.35	6669.200	981.6853	1544.704
Stddev	5.425	173.96	42.560	12.9154	11.735
%RSD	.4882718	.5239512	.6381514	1.315635	.7597101
#1	1105.669	33065.27	6643.202	979.3578	1531.579
#2	1116.517	33143.73	6646.081	970.0919	1554.187
#3	1110.913	33398.05	6718.315	995.6061	1548.345

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-06 Acquired: 12/02/2024 22:04:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHT9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1160904	-.009293	4.896228	-.009436	.0419275	75.18275
Stddev	.0067436	.007398	.024183	.010060	.0045876	1.87078
%RSD	5.808930	79.60660	.4939184	106.6125	10.94184	2.488314
#1	.1209822	-.000816	4.914481	.001826	.0422820	74.22059
#2	.1188914	-.014441	4.868799	-.012602	.0371729	73.98886
#3	.1083977	-.012622	4.905403	-.017533	.0463276	77.33879

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.918497	.0054057	.0161175	443.2428	.1651407	.0795318
Stddev	.084068	.0001622	.0001959	11.9528	.0028590	.0005801
%RSD	2.880526	3.000601	1.215729	2.696673	1.731230	.7293819
#1	2.874424	.0052595	.0163436	435.9153	.1640005	.0790330
#2	2.865630	.0053774	.0160130	436.7773	.1683938	.0801684
#3	3.015438	.0055802	.0159960	457.0357	.1630277	.0793939

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7745882	171.0680	7.521895	57.69579	.1788716	-.007212
Stddev	.0236178	4.2884	.215987	1.39526	.0024722	.000839
%RSD	3.049075	2.506819	2.871448	2.418301	1.382134	11.63131
#1	.7625000	168.7583	7.381273	56.90304	.1808044	-.007050
#2	.7594613	168.4295	7.413825	56.87751	.1760858	-.006465
#3	.8018031	176.0161	7.770586	59.30683	.1797245	-.008119

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.966398	.2140960	2.898129	10.30820	F 24.99451	.0879709
Stddev	.205367	.0050585	.045019	.48073	.17641	.0064814
%RSD	10.44384	2.362730	1.553391	4.663575	.7057936	7.367642
#1	2.185392	.2143397	2.898810	10.03271	25.15913	.0894087
#2	1.778116	.2089200	2.942804	10.02861	24.80830	.0808913
#3	1.935686	.2190282	2.852773	10.86330	25.01609	.0936126

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-06 Acquired: 12/02/2024 22:04:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHT9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0063028	3.892105	4.476241	.3180102	1.037404	.1012761
Stddev	.0007397	.024057	.080062	.0008808	.024723	.0044551
%RSD	11.73644	.6180967	1.788599	.2769686	2.383123	4.398935
#1	.0054676	3.901563	4.420523	.3181375	1.025753	.0995717
#2	.0068754	3.864757	4.440214	.3188204	1.020660	.0979250
#3	.0065655	3.909996	4.567987	.3170727	1.065800	.1063318

Elem	Sr4077
Units	ppm
Avg	.9706091
Stddev	.0265599
%RSD	2.736414
#1	.9558901
#2	.9546675
#3	1.001270

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1117.922	33225.72	6605.940	985.1884	1522.648
Stddev	3.867	315.64	132.573	14.2536	8.065
%RSD	.3459323	.9499743	2.006873	1.446794	.5296736
#1	1114.306	33373.00	6702.191	986.9117	1516.928
#2	1121.999	32863.37	6660.903	970.1515	1531.872
#3	1117.462	33440.80	6454.725	998.5021	1519.144

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-07 Acquired: 12/02/2024 22:08:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHW0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1205697	-.014645	4.635912	-.005097	.0081156	79.54663
Stddev	.0022518	.004601	.092069	.003842	.0015688	.04270
%RSD	1.867644	31.41457	1.985986	75.36886	19.33097	.0536849
#1	.1228660	-.009766	4.546704	-.001433	.0080897	79.50293
#2	.1183651	-.018904	4.730596	-.009095	.0065599	79.58827
#3	.1204780	-.015265	4.630436	-.004763	.0096972	79.54870

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.935045	.0056013	.0172731	493.4392	.1932825	.0831244
Stddev	.004198	.0000651	.0006225	1.4936	.0040243	.0019966
%RSD	.1430303	1.163090	3.604102	.3026988	2.082054	2.401918
#1	2.931426	.0055466	.0167012	491.7576	.1912889	.0809478
#2	2.939647	.0055841	.0179362	494.6118	.1906442	.0848708
#3	2.934062	.0056734	.0171820	493.9482	.1979143	.0835546

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6876712	167.1599	7.160201	61.47053	.2066924	-.007940
Stddev	.0023304	.2032	.025173	.09715	.0045392	.001001
%RSD	.3388890	.1215841	.3515653	.1580453	2.196113	12.60506
#1	.6898702	167.3304	7.131203	61.36414	.2035597	-.007995
#2	.6879148	167.2143	7.176423	61.55453	.2118980	-.008913
#3	.6852285	166.9350	7.172980	61.49294	.2046196	-.006913

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.517146	.2153813	2.719121	10.63387	F 28.46379	.0857983
Stddev	.354770	.0022473	.050739	.15479	.56394	.0044412
%RSD	14.09415	1.043413	1.866004	1.455661	1.981238	5.176318
#1	2.111847	.2138653	2.705978	10.55263	27.92611	.0908934
#2	2.668205	.2143153	2.676246	10.53661	29.05075	.0827463
#3	2.771385	.2179632	2.775138	10.81237	28.41452	.0837553

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-07 Acquired: 12/02/2024 22:08:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHW0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0068487	4.163742	4.018562	.3655204	.9752055	.1096112
Stddev	.0005350	.084305	.052899	.0104544	.0020504	.0006899
%RSD	7.811198	2.024753	1.316367	2.860135	.2102572	.6293923
#1	.0064192	4.086584	3.957714	.3552509	.9749839	.1104051
#2	.0074480	4.253725	4.044350	.3761503	.9773577	.1091576
#3	.0066790	4.150915	4.053621	.3651600	.9732748	.1092710

Elem	Sr4077
Units	ppm
Avg	1.065991
Stddev	.001674
%RSD	.1570309
#1	1.064061
#2	1.067047
#3	1.066865

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1138.281	34118.71	6899.529	1003.414	1490.436
Stddev	12.966	449.89	62.944	17.659	28.470
%RSD	1.139119	1.318613	.9122982	1.759885	1.910163
#1	1151.010	34240.21	6971.243	1002.248	1516.954
#2	1125.090	34495.38	6853.434	1021.627	1460.351
#3	1138.744	33620.55	6873.909	986.366	1494.003

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-08 Acquired: 12/02/2024 22:13:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHW6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1038420	-.009899	3.338115	-.011748	.0082042	58.73220	.9778780
Stddev	.0088581	.005940	.022934	.002901	.0016620	.12357	.0012773
%RSD	8.530369	60.00906	.6870244	24.69704	20.25775	.2103896	.1306170
#1	.1108573	-.010055	3.364561	-.013250	.0067284	58.59541	.9770353
#2	.1067806	-.003882	3.323695	-.013591	.0078796	58.76546	.9793476
#3	.0938880	-.015760	3.326091	-.008404	.0100045	58.83574	.9772511

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045397	.0143031	200.0150	.1321889	.0841332	.3812487	157.4931
Stddev	.0002069	.0001585	.2477	.0071109	.0003565	.0025201	.4024
%RSD	4.557114	1.108269	.1238304	5.379382	.4237803	.6610045	.2554823
#1	.0045076	.0144735	199.8351	.1280261	.0844941	.3810210	157.2814
#2	.0047607	.0141601	199.9124	.1403996	.0841245	.3788501	157.2407
#3	.0043507	.0142757	200.2975	.1281409	.0837811	.3838748	157.9571

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.886871	54.67544	.2184181	-.009300	1.520636	.1643556	1.489297
Stddev	.013216	.06555	.0025486	.002241	.163892	.0064460	.060953
%RSD	.1336739	.1198847	1.166862	24.10219	10.77786	3.921973	4.092750
#1	9.879181	54.66826	.2206712	-.010676	1.587055	.1602743	1.454988
#2	9.902132	54.61377	.2156520	-.006713	1.333960	.1610056	1.559672
#3	9.879301	54.74428	.2189310	-.010509	1.640894	.1717867	1.453231

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.273759	8.095809	.0558495	.0045492	4.265278	3.233845	.0815872
Stddev	.067184	.054095	.0009682	.0000601	.031056	.016079	.0021992
%RSD	1.070879	.6681885	1.733637	1.320958	.7281175	.4972182	2.695497
#1	6.196720	8.155648	.0569600	.0046135	4.297659	3.215773	.0840451
#2	6.304378	8.050373	.0554062	.0044944	4.235743	3.246569	.0798056
#3	6.320180	8.081407	.0551823	.0045397	4.262433	3.239193	.0809109

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-08 Acquired: 12/02/2024 22:13:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHW6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.196177	.0536357	.4117620
Stddev	.002551	.0002814	.0004060
%RSD	.2132347	.5245887	.0985994
#1	1.193265	.0539010	.4115766
#2	1.198014	.0533406	.4122276
#3	1.197252	.0536655	.4114818

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1113.476	32526.66	6578.677	965.2261	1609.459
Stddev	3.614	1076.84	23.122	30.7960	10.625
%RSD	.3246105	3.310633	.3514673	3.190550	.6601839
#1	1110.326	33126.34	6582.663	978.7303	1599.100
#2	1117.422	31283.49	6599.546	929.9850	1620.332
#3	1112.680	33170.14	6553.821	986.9630	1608.943

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-09 Acquired: 12/02/2024 22:17:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHW7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1143497	-.005450	3.624282	-.008050	.0082226	60.85015	1.042937
Stddev	.0106341	.002751	.083560	.002347	.0033498	.15354	.001569
%RSD	9.299621	50.48269	2.305549	29.15263	40.73864	.2523326	.1504656
#1	.1249976	-.006431	3.650747	-.010751	.0098662	60.97588	1.043848
#2	.1037295	-.002342	3.530695	-.006513	.0043685	60.67903	1.041125
#3	.1143221	-.007576	3.691405	-.006886	.0104330	60.89554	1.043838

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049788	.0152649	231.6157	.1287691	.0839100	.3976212	151.0729
Stddev	.0001426	.0001969	.6013	.0026627	.0020394	.0025224	.4216
%RSD	2.863510	1.290108	.2595913	2.067838	2.430509	.6343617	.2790894
#1	.0050266	.0152790	232.0273	.1261319	.0840952	.4004316	151.1910
#2	.0050913	.0150613	230.9257	.1287189	.0817843	.3968782	150.6048
#3	.0048185	.0154544	231.8941	.1314566	.0858506	.3955539	151.4228

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.587007	52.67360	.2181898	-.009750	1.744705	.1715941	1.482583
Stddev	.014665	.07608	.0053997	.000542	.341017	.0023998	.025637
%RSD	.1529649	.1444337	2.474765	5.560067	19.54584	1.398562	1.729232
#1	9.597155	52.71441	.2195036	-.010281	1.351140	.1730893	1.455162
#2	9.570193	52.58583	.2122545	-.009774	1.952557	.1728669	1.486632
#3	9.593672	52.72057	.2228113	-.009197	1.930419	.1688259	1.505954

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.759003	8.533216	.0448998	.0034982	3.277024	6.268782	.0794702
Stddev	.048788	.201322	.0007660	.0004049	.093829	.007676	.0024843
%RSD	.8471684	2.359270	1.705967	11.57550	2.863224	.1224504	3.126037
#1	5.812444	8.589927	.0446467	.0036329	3.312275	6.260608	.0788293
#2	5.716843	8.309621	.0457603	.0038186	3.170675	6.275837	.0773692
#3	5.747724	8.700099	.0442924	.0030431	3.348122	6.269902	.0822121

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-09 Acquired: 12/02/2024 22:17:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHW7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.268516	.0615522	.3162933
Stddev	.001650	.0009005	.0004278
%RSD	.1300871	1.463006	.1352569
#1	1.266643	.0623672	.3164823
#2	1.269149	.0605855	.3158036
#3	1.269756	.0617039	.3165941

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1123.036	33265.68	6635.233	983.6987	1602.577
Stddev	12.487	228.92	23.198	11.3866	30.726
%RSD	1.111854	.6881486	.3496182	1.157533	1.917286
#1	1118.944	33528.23	6608.580	993.2041	1590.096
#2	1137.055	33160.94	6646.253	986.8132	1637.580
#3	1113.110	33107.88	6650.868	971.0789	1580.056

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-13 Acquired: 12/02/2024 22:22:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1812708	-.007297	8.668486	-.001974	.0020980	62.67535
Stddev	.0031894	.001665	.082404	.004395	.0024861	.57487
%RSD	1.759444	22.81563	.9506117	222.6966	118.4977	.9172201
#1	.1775881	-.007451	8.594341	-.003705	.0009019	62.43191
#2	.1830948	-.008879	8.653912	.003024	.0004361	63.33189
#3	.1831294	-.005560	8.757204	-.005240	.0049560	62.26225

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.094323	.0054874	.0149800	29.44742	.2080413	.1025673
Stddev	.016971	.0001868	.0004375	.22741	.0006864	.0008908
%RSD	.8103254	3.403191	2.920268	.7722641	.3299168	.8685314
#1	2.092692	.0056899	.0146702	29.47785	.2075531	.1023003
#2	2.112050	.0054504	.0147895	29.65809	.2077447	.1018405
#3	2.078226	.0053220	.0154805	29.20633	.2088261	.1035611

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5756020	166.1700	12.28122	13.56265	.2163346	-.012605
Stddev	.0043512	1.5417	.10548	.15391	.0032792	.000314
%RSD	.7559376	.9278012	.8588378	1.134836	1.515808	2.488190
#1	.5754941	165.7749	12.28438	13.49125	.2136532	-.012818
#2	.5800061	167.8708	12.38509	13.73929	.2153600	-.012752
#3	.5713057	164.8642	12.17421	13.45740	.2199907	-.012245

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.473254	.1958354	2.080928	6.465196	F 14.40669	.0398514
Stddev	.240910	.0079951	.003188	.156731	.14094	.0025009
%RSD	16.35224	4.082589	.1531893	2.424219	.9782726	6.275484
#1	1.249385	.2047996	2.077317	6.451122	14.28473	.0375656
#2	1.442187	.1932650	2.082117	6.628489	14.37435	.0425226
#3	1.728191	.1894416	2.083351	6.315977	14.56099	.0394659

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-13 Acquired: 12/02/2024 22:22:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0114282	3.093480	5.365835	.4115309	1.301130	.0460691
Stddev	.0006475	.039837	.053748	.0045194	.015387	.0012869
%RSD	5.665492	1.287786	1.001676	1.098197	1.182576	2.793323
#1	.0120322	3.052165	5.388052	.4073980	1.300014	.0458664
#2	.0107446	3.096622	5.404913	.4108378	1.317044	.0474453
#3	.0115078	3.131654	5.304540	.4163568	1.286331	.0448956

Elem	Sr4077
Units	ppm
Avg	.1446692
Stddev	.0012472
%RSD	.8621105
#1	.1441929
#2	.1460844
#3	.1437304

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1218.374	36445.06	6986.316	1074.632	1730.700
Stddev	6.690	91.17	65.853	2.789	14.218
%RSD	.5491085	.2501592	.9425990	.2595229	.8215430
#1	1224.770	36543.10	6968.001	1075.580	1744.348
#2	1218.929	36429.25	6931.560	1076.823	1731.780
#3	1211.424	36362.83	7059.388	1071.493	1715.973

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-14 Acquired: 12/02/2024 22:26:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1826793	-.003783	9.243980	.0030488	.0013503	67.59686
Stddev	.0048765	.002229	.017836	.0043908	.0036301	.37518
%RSD	2.669441	58.90524	.1929518	144.0171	268.8446	.5550202
#1	.1878830	-.001213	9.224036	.0025888	.0016516	67.54843
#2	.1819408	-.004966	9.258404	.0076514	.0048202	67.24824
#3	.1782142	-.005171	9.249498	-.001094	-.002421	67.99389

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.593216	.0055281	.0174150	26.66077	.2367012	.1115709
Stddev	.016300	.0001257	.0000453	.16053	.0038481	.0013632
%RSD	.6285777	2.274106	.2602271	.6021311	1.625701	1.221811
#1	2.591664	.0053833	.0174522	26.64501	.2324302	.1099971
#2	2.577747	.0055917	.0174282	26.50870	.2398979	.1123310
#3	2.610237	.0056093	.0173645	26.82860	.2377755	.1123846

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.494259	198.8649	14.57765	13.79563	.2248450	-.011565
Stddev	.012586	.7170	.09719	.09202	.0006662	.000675
%RSD	.8422589	.3605280	.6667356	.6670565	.2962773	5.838101
#1	1.486369	198.5883	14.54077	13.83934	.2247070	-.012232
#2	1.487635	198.3275	14.50430	13.68990	.2255694	-.010882
#3	1.508774	199.6790	14.68789	13.85766	.2242587	-.011582

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.550712	.2151270	2.678053	7.264492	F 13.05942	.0429989
Stddev	.246904	.0022007	.040216	.225450	.02762	.0020885
%RSD	15.92196	1.022982	1.501693	3.103449	.2114962	4.857177
#1	1.454661	.2169251	2.635160	7.220413	13.03259	.0453140
#2	1.831207	.2157831	2.714909	7.064338	13.05791	.0424266
#3	1.366268	.2126729	2.684091	7.508726	13.08777	.0412562

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-14 Acquired: 12/02/2024 22:26:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0115793	2.977939	5.551820	.6187866	1.363353	.0523407
Stddev	.0003575	.005220	.017031	.0005163	.004441	.0003120
%RSD	3.087144	.1752997	.3067592	.0834345	.3257544	.5961399
#1	.0118133	2.979275	5.555307	.6186741	1.365127	.0520337
#2	.0111679	2.972180	5.533315	.6193498	1.358300	.0523309
#3	.0117568	2.982361	5.566837	.6183358	1.366634	.0526575

Elem	Sr4077
Units	ppm
Avg	.1649264
Stddev	.0010872
%RSD	.6592216
#1	.1646910
#2	.1639762
#3	.1661121

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1197.612	35516.22	6813.103	1058.986	1745.789
Stddev	5.097	327.20	25.891	15.187	4.533
%RSD	.4255799	.9212577	.3800113	1.434090	.2596475
#1	1201.060	35826.38	6812.366	1074.342	1750.482
#2	1191.757	35174.31	6839.353	1043.974	1741.435
#3	1200.018	35547.98	6787.588	1058.640	1745.449

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-15 Acquired: 12/02/2024 22:30:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHY5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0586824	-.008235	.5034302	-.012659	.0045916	67.84122	.6056244
Stddev	.0022300	.001895	.0023913	.003204	.0028038	.08371	.0006425
%RSD	3.800053	23.01479	.4750096	25.30927	61.06311	.1233863	.1060927
#1	.0608156	-.006655	.5042080	-.009779	.0075905	67.74706	.6056688
#2	.0563669	-.010336	.5007467	-.016110	.0041488	67.90722	.6062436
#3	.0588647	-.007713	.5053357	-.012088	.0020356	67.86937	.6049609

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040819	.0098169	191.0649	.1104460	.0736660	.1760339	161.5245
Stddev	.0001342	.0002134	.3390	.0010124	.0001294	.0006017	.2379
%RSD	3.286685	2.173443	.1774501	.9166520	.1756887	.3417954	.1473041
#1	.0042066	.0099952	190.6735	.1101712	.0738040	.1765989	161.2676
#2	.0039399	.0095805	191.2667	.1095994	.0735474	.1761016	161.7374
#3	.0040990	.0098748	191.2546	.1115675	.0736466	.1754013	161.5684

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.355868	86.72532	.1796669	-.011004	1.459019	.1681691	.7224107
Stddev	.006515	.43149	.0016283	.000482	.215194	.0026147	.0041236
%RSD	.1216431	.4975329	.9062941	4.377027	14.74919	1.554785	.5708106
#1	5.357968	86.23106	.1779664	-.011496	1.696632	.1651951	.7268345
#2	5.361075	86.91806	.1812119	-.010983	1.277258	.1701068	.7186735
#3	5.348562	87.02685	.1798223	-.010534	1.403167	.1692054	.7217241

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.21146	6.988766	.0470411	.0031578	4.574568	5.862253	.0145309
Stddev	.07951	.025234	.0015664	.0001917	.013539	.020061	.0017760
%RSD	.7786695	.3610599	3.329921	6.071609	.2959666	.3422127	12.22229
#1	10.23260	6.965955	.0465883	.0031735	4.564276	5.881568	.0164566
#2	10.12351	7.015871	.0487840	.0029588	4.589905	5.863672	.0141789
#3	10.27826	6.984470	.0457509	.0033413	4.569521	5.841520	.0129573

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-15 Acquired: 12/02/2024 22:30:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHY5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.316311	.0664349	.2262708
Stddev	.001032	.0014928	.0003715
%RSD	.0784090	2.246965	.1641982
#1	1.316313	.0647320	.2260476
#2	1.315278	.0670553	.2266997
#3	1.317342	.0675175	.2260651

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1092.098	32365.80	6402.770	966.6889	1592.949
Stddev	.818	58.24	10.077	3.0808	1.079
%RSD	.0748725	.1799557	.1573786	.3186972	.0677492
#1	1091.679	32430.26	6412.228	964.5675	1591.776
#2	1093.040	32350.22	6392.172	970.2226	1593.171
#3	1091.574	32316.94	6403.912	965.2764	1593.900

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-16 Acquired: 12/02/2024 22:35:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHY6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0736342	-.006319	.5825218	-.000557	.0050021	71.09261	.6503936
Stddev	.0033855	.005029	.0006563	.006828	.0015389	.28365	.0008509
%RSD	4.597736	79.57822	.1126676	1226.034	30.76569	.3989913	.1308285
#1	.0733768	-.004093	.5828865	-.002695	.0067266	71.34847	.6513300
#2	.0771411	-.002788	.5817641	.007084	.0045114	70.78759	.6501831
#3	.0703848	-.012077	.5829147	-.006060	.0037684	71.14178	.6496677

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046148	.0101807	214.6367	.1164412	.0793438	.1902869	167.5970
Stddev	.0002069	.0001795	.3138	.0007000	.0008171	.0031835	.6153
%RSD	4.483050	1.762955	.1462063	.6011741	1.029888	1.672985	.3671012
#1	.0047740	.0101855	214.9974	.1170368	.0802551	.1881264	168.1545
#2	.0043809	.0103578	214.4263	.1156701	.0786764	.1939427	166.9369
#3	.0046895	.0099989	214.4863	.1166166	.0790999	.1887916	167.6996

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.355074	90.04686	.1950996	-.011436	1.513444	.1766640	.7613797
Stddev	.007699	.54115	.0008842	.000570	.182659	.0036512	.0045304
%RSD	.1437699	.6009626	.4532060	4.981181	12.06911	2.066756	.5950292
#1	5.363194	90.47668	.1959172	-.011644	1.577482	.1729527	.7564693
#2	5.347879	89.43916	.1941612	-.010792	1.655462	.1802521	.7653972
#3	5.354149	90.22475	.1952205	-.011873	1.307388	.1767871	.7622726

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.462799	6.101894	.0450815	.0026276	4.496661	5.966978	.0145706
Stddev	.083152	.010186	.0025414	.0004813	.011288	.039549	.0066311
%RSD	.9825601	.1669325	5.637435	18.31738	.2510201	.6627920	45.51033
#1	8.525194	6.092590	.0467483	.0029482	4.508111	5.985004	.0181475
#2	8.494803	6.112778	.0421564	.0028604	4.485543	5.921627	.0069190
#3	8.368400	6.100315	.0463398	.0020741	4.496329	5.994301	.0186452

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-16 Acquired: 12/02/2024 22:35:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHY6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.340913	.0677132	.2614112
Stddev	.004267	.0011577	.0008875
%RSD	.3181795	1.709675	.3394875
#1	1.345787	.0678512	.2618359
#2	1.339102	.0687958	.2603912
#3	1.337851	.0664928	.2620064

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1095.177	32449.04	6437.796	965.5964	1593.953
Stddev	3.829	126.03	22.061	8.7117	6.305
%RSD	.3496448	.3883879	.3426782	.9022140	.3955323
#1	1091.074	32433.65	6418.744	967.3718	1587.102
#2	1095.803	32331.42	6461.966	956.1338	1595.245
#3	1098.655	32582.06	6432.678	973.2838	1599.511

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-17 Acquired: 12/02/2024 22:39:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHY7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1246561	-.012969	1.159531	-.000510	.0067763	71.10567	.7393686
Stddev	.0066516	.003899	.017317	.009746	.0028849	.03967	.0018054
%RSD	5.335978	30.06525	1.493461	1912.104	42.57299	.0557886	.2441851
#1	.1321818	-.013006	1.144102	.005848	.0054016	71.10528	.7411733
#2	.1222227	-.016850	1.156230	.004353	.0100914	71.14554	.7393700
#3	.1195639	-.009052	1.178261	-.011730	.0048358	71.06620	.7375624

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047164	.0132212	338.8592	.1168537	.0819511	.2479372	189.8184
Stddev	.0001314	.0002956	.3199	.0062127	.0026534	.0012803	.1191
%RSD	2.786337	2.235469	.0944016	5.316635	3.237823	.5163852	.0627585
#1	.0048526	.0129735	339.2205	.1108283	.0813207	.2465149	189.7450
#2	.0045904	.0131417	338.7447	.1232381	.0796697	.2482989	189.9558
#3	.0047063	.0135484	338.6123	.1164946	.0848630	.2489977	189.7543

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.142677	122.0939	.2045735	-.008869	2.086209	.1790316	.9946286
Stddev	.002728	.2496	.0030495	.003472	.140494	.0054917	.0585281
%RSD	.0444123	.2044579	1.490636	39.14196	6.734419	3.067446	5.884417
#1	6.143604	121.9952	.2021698	-.011898	2.248399	.1727076	.9443608
#2	6.139606	122.3778	.2035470	-.005081	2.008176	.1817892	1.058883
#3	6.144820	121.9088	.2080038	-.009629	2.002052	.1825981	.980642

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.400999	5.996438	.0436942	.0030592	5.341566	5.913294	.0439384
Stddev	.059203	.090296	.0041921	.0004907	.089055	.023308	.0009291
%RSD	.7999334	1.505832	9.594065	16.04067	1.667203	.3941624	2.114601
#1	7.335563	5.922230	.0469896	.0034645	5.281220	5.896866	.0441742
#2	7.416580	5.970112	.0389759	.0025136	5.299632	5.939971	.0447269
#3	7.450853	6.096971	.0451170	.0031996	5.443847	5.903047	.0429141

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-17 Acquired: 12/02/2024 22:39:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHY7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.477006	.0720666	.4414386
Stddev	.005509	.0007338	.0004351
%RSD	.3729785	1.018170	.0985727
#1	1.471448	.0719596	.4412297
#2	1.482465	.0728480	.4419388
#3	1.477104	.0713923	.4411474

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1059.764	31233.67	6325.133	922.9464	1524.723
Stddev	8.668	1560.67	16.553	47.6188	20.098
%RSD	.8178857	4.996755	.2617018	5.159436	1.318137
#1	1065.741	32630.60	6313.049	964.8274	1538.209
#2	1063.727	29549.24	6344.000	871.1508	1534.336
#3	1049.823	31521.17	6318.351	932.8611	1501.624

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-18 Acquired: 12/02/2024 22:43:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHY8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1374676	-.012522	.4387841	-.014010	.0021194	96.96336	1.220491
Stddev	.0045088	.003038	.0143243	.008483	.0025981	1.86382	.027972
%RSD	3.279919	24.25892	3.264533	60.54861	122.5863	1.922191	2.291846
#1	.1325168	-.015756	.4426668	-.013726	.0032670	96.65147	1.217934
#2	.1413381	-.009728	.4507668	-.022631	.0039461	98.96345	1.249653
#3	.1385480	-.012082	.4229188	-.005672	-.000855	95.27516	1.193885

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0062437	.0165998	790.9689	.1388614	.1043609	.2362366	207.0133
Stddev	.0003176	.0008086	11.6053	.0022124	.0042951	.0060390	3.8757
%RSD	5.086265	4.870930	1.467230	1.593265	4.115661	2.556343	1.872216
#1	.0060169	.0169023	783.7511	.1380880	.1061295	.2341416	205.8897
#2	.0066066	.0172136	804.3559	.1371396	.1074894	.2430441	211.3266
#3	.0061076	.0156837	784.7997	.1413568	.0994639	.2315240	203.8234

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.992617	305.2271	.2278369	-.001856	2.101347	.2065919	1.448246
Stddev	.167279	5.8006	.0038256	.001081	.093206	.0016842	.023541
%RSD	2.392217	1.900434	1.679083	58.22051	4.435556	.8152475	1.625472
#1	6.964737	303.5286	.2306784	-.002323	2.014696	.2046630	1.431349
#2	7.172084	311.6874	.2293451	-.002625	2.199955	.2073416	1.438255
#3	6.841030	300.4654	.2234871	-.000620	2.089390	.2077712	1.475135

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.320679	4.294670	.0535841	.0028718	5.784038	6.470914	.0083242
Stddev	.276850	.130559	.0060497	.0010069	.165392	.111556	.0013522
%RSD	3.327252	3.040030	11.29003	35.06292	2.859456	1.723953	16.24446
#1	8.240998	4.357734	.0589815	.0038415	5.884301	6.430018	.0076791
#2	8.628631	4.381724	.0547258	.0018314	5.874672	6.597145	.0074154
#3	8.092407	4.144550	.0470449	.0029424	5.593140	6.385577	.0098782

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-18 Acquired: 12/02/2024 22:43:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHY8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.012331	.1273467	.7858054
Stddev	.017243	.0042824	.0162931
%RSD	1.703299	3.362822	2.073423
#1	1.007729	.1260792	.7837761
#2	1.031409	.1321198	.8030181
#3	.997856	.1238411	.7706221

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1008.912	29535.85	6053.441	872.1720	1415.651
Stddev	24.506	317.67	107.238	11.3702	41.690
%RSD	2.428959	1.075539	1.771514	1.303668	2.944932
#1	997.361	29787.56	6090.322	881.2113	1394.849
#2	992.316	29641.06	5932.630	875.8986	1388.455
#3	1037.059	29178.92	6137.371	859.4061	1463.649

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-19 Acquired: 12/02/2024 22:48:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHY9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0515608	-.020540	.3103879	-.013700	.0085124	129.0025	1.708623
Stddev	.0051400	.004040	.0014345	.001334	.0005951	.8131	.011166
%RSD	9.968764	19.66971	.4621566	9.738467	6.991034	.6302813	.6535285
#1	.0479179	-.018171	.3101011	-.015124	.0082436	129.8306	1.721419
#2	.0493243	-.018243	.3091185	-.013499	.0091945	128.2053	1.700854
#3	.0574401	-.025204	.3119441	-.012478	.0080991	128.9715	1.703595

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0076835	.0174401	618.3208	.1801387	.1173396	.2751023	244.2885
Stddev	.0001091	.0002127	3.1309	.0004174	.0001759	.0013557	1.5530
%RSD	1.419457	1.219881	.5063631	.2317151	.1499305	.4927845	.6357124
#1	.0076039	.0172274	615.9901	.1799194	.1171365	.2738458	245.8085
#2	.0078078	.0174401	617.0926	.1798767	.1174438	.2765391	242.7045
#3	.0076388	.0176529	621.8796	.1806201	.1174386	.2749221	244.3525

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.059342	176.1070	.2925640	-.009843	2.125144	.2417376	1.407447
Stddev	.037564	1.3179	.0029254	.000491	.364470	.0056684	.007901
%RSD	.7424623	.7483467	.9999105	4.991672	17.15036	2.344837	.5613658
#1	5.102518	177.4074	.2931553	-.009855	2.022970	.2362685	1.415956
#2	5.034165	174.7723	.2951485	-.009346	2.529797	.2413583	1.406042
#3	5.041343	176.1411	.2893881	-.010328	1.822666	.2475861	1.400343

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.586944	5.001225	.0541552	.0032355	3.543948	4.149705	.0050780
Stddev	.118353	.012141	.0013750	.0004822	.024493	.028793	.0008241
%RSD	1.796787	.2427605	2.538942	14.90243	.6911276	.6938498	16.22961
#1	6.694106	5.010241	.0557208	.0029229	3.555395	4.175944	.0048016
#2	6.459914	5.006014	.0531442	.0029927	3.560623	4.118904	.0044276
#3	6.606812	4.987420	.0536005	.0037907	3.515827	4.154269	.0060048

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-19 Acquired: 12/02/2024 22:48:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHY9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.178360	.1767483	1.112174
Stddev	.007276	.0011699	.007471
%RSD	.6174629	.6619310	.6717637
#1	1.184609	.1778361	1.120682
#2	1.170372	.1755106	1.106682
#3	1.180100	.1768981	1.109158

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1030.475	30746.22	6286.965	908.4266	1441.802
Stddev	2.036	76.12	43.508	7.3039	4.737
%RSD	.1975754	.2475666	.6920272	.8040137	.3285566
#1	1029.994	30658.78	6249.167	900.2200	1440.467
#2	1028.723	30797.64	6334.524	910.8460	1437.876
#3	1032.709	30782.24	6277.203	914.2137	1447.064

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-20 Acquired: 12/02/2024 22:53:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHZ0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0361120	-.017504	.3107885	-.013230	.0107704	138.0658	1.810484
Stddev	.0063760	.004829	.0024914	.004996	.0038261	.0797	.002080
%RSD	17.65624	27.58543	.8016517	37.76328	35.52427	.0577517	.1149014
#1	.0425031	-.015109	.3081103	-.009750	.0135261	138.0012	1.812463
#2	.0297512	-.014342	.3112178	-.018955	.0064020	138.0413	1.810674
#3	.0360817	-.023063	.3130374	-.010985	.0123832	138.1549	1.808316

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0079503	.0166557	498.4201	.1818508	.1219828	.2751133	259.7530
Stddev	.0001832	.0004500	.6376	.0148185	.0020592	.0018504	.2003
%RSD	2.304813	2.701844	.1279310	8.148731	1.688095	.6726085	.0771115
#1	.0080579	.0163773	497.6838	.1896068	.1226820	.2731768	259.5291
#2	.0080542	.0164150	498.7829	.1911815	.1196651	.2752994	259.8147
#3	.0077387	.0171749	498.7934	.1647640	.1236014	.2768636	259.9152

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.293381	101.3021	.3038982	-.015950	2.137424	.2639705	1.232605
Stddev	.007337	.0860	.0026367	.004884	.098315	.0009291	.093961
%RSD	.1709010	.0849153	.8676185	30.62162	4.599698	.3519549	7.622936
#1	4.286942	101.2389	.3048782	-.013342	2.155243	.2646531	1.280830
#2	4.301370	101.4001	.3009118	-.012924	2.031418	.2643460	1.292661
#3	4.291832	101.2674	.3059045	-.021585	2.225611	.2629125	1.124324

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.994939	4.559612	.0580203	.0034068	1.516000	6.635492	.0098256
Stddev	.128670	.047322	.0038810	.0011749	.006507	.051241	.0039867
%RSD	2.146308	1.037852	6.688992	34.48660	.4292135	.7722257	40.57511
#1	5.922135	4.591761	.0593632	.0047516	1.518527	6.654722	.0079256
#2	6.143504	4.505272	.0536463	.0028894	1.508609	6.674336	.0144070
#3	5.919177	4.581802	.0610516	.0025793	1.520865	6.577418	.0071443

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-20 Acquired: 12/02/2024 22:53:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHZ0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.187391	.1878628	1.260729
Stddev	.003005	.0008783	.000977
%RSD	.2530793	.4674937	.0775128
#1	1.190165	.1880601	1.259631
#2	1.187809	.1869027	1.261051
#3	1.184199	.1886256	1.261505

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1044.822	32484.82	6353.065	958.4165	1493.063
Stddev	5.578	2254.85	15.721	67.9285	14.168
%RSD	.5338840	6.941253	.2474601	7.087573	.9489172
#1	1042.754	31240.91	6364.864	921.8719	1485.300
#2	1051.138	31125.91	6359.113	916.5835	1509.416
#3	1040.573	35087.66	6335.218	1036.794	1484.474

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-21 Acquired: 12/02/2024 22:57:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHZ1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0540629	-.012633	.3410864	-.019892	.0073056	107.2921	1.415241
Stddev	.0043803	.004446	.0065406	.006131	.0025408	.5638	.010200
%RSD	8.102211	35.19358	1.917563	30.81934	34.77886	.5254686	.7207263
#1	.0500407	-.008319	.3335342	-.023693	.0076000	107.6705	1.420595
#2	.0534181	-.012380	.3448166	-.023163	.0046304	107.5617	1.421649
#3	.0587298	-.017201	.3449084	-.012819	.0096864	106.6442	1.403478

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0068116	.0138171	647.9484	.1499890	.1041550	.2503333	210.4416
Stddev	.0000962	.0002414	.9663	.0023022	.0025587	.0013387	.6262
%RSD	1.412992	1.747391	.1491307	1.534927	2.456665	.5347758	.2975875
#1	.0069132	.0138770	649.0118	.1476684	.1036282	.2512472	210.8017
#2	.0067999	.0135513	647.7094	.1522723	.1069362	.2509562	210.8046
#3	.0067218	.0140229	647.1240	.1500264	.1019007	.2487967	209.7185

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.526127	200.7570	.2443345	-.005875	2.232797	.2102915	1.034002
Stddev	.049650	1.0058	.0009152	.000633	.236584	.0048637	.008080
%RSD	1.096958	.5010264	.3745637	10.76759	10.59586	2.312837	.7813843
#1	4.554620	201.3230	.2448654	-.006553	1.998969	.2153119	1.028627
#2	4.554965	201.3524	.2448603	-.005300	2.227376	.2099614	1.043294
#3	4.468797	199.5957	.2432777	-.005773	2.472044	.2056013	1.030086

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.700224	4.122439	.0722832	.0032326	2.927160	6.957376	.0096744
Stddev	.035777	.016867	.0011958	.0005995	.012223	.034599	.0025979
%RSD	.5339599	.4091414	1.654367	18.54527	.4175759	.4972938	26.85310
#1	6.728473	4.124441	.0711769	.0031179	2.916547	6.963815	.0071386
#2	6.712204	4.138216	.0721208	.0038811	2.940524	6.988302	.0123302
#3	6.659995	4.104661	.0735520	.0026987	2.924410	6.920010	.0095544

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-21 Acquired: 12/02/2024 22:57:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHZ1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.9565582	.1469916	.9314929
Stddev	.0029904	.0007380	.0068366
%RSD	.3126152	.5020517	.7339418
#1	.9568259	.1466574	.9364470
#2	.9594057	.1478375	.9343388
#3	.9534430	.1464798	.9236931

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1009.936	30282.69	6164.322	888.8660	1449.087
Stddev	1.748	355.03	35.053	6.0813	5.252
%RSD	.1731290	1.172378	.5686404	.6841646	.3624012
#1	1011.331	30623.65	6134.981	890.2914	1449.205
#2	1007.975	29915.10	6154.846	882.1986	1443.777
#3	1010.503	30309.31	6203.138	894.1080	1454.278

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-22 Acquired: 12/02/2024 23:02:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHZ2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1123988	-.010947	5.782032	-.008681	.0107594	77.61467
Stddev	.0016795	.005606	.025278	.006579	.0041155	.13697
%RSD	1.494268	51.21526	.4371903	75.78531	38.25063	.1764729
#1	.1127680	-.016326	5.768787	-.001924	.0070796	77.77273
#2	.1105654	-.011376	5.766127	-.015066	.0099950	77.53081
#3	.1138631	-.005138	5.811180	-.009053	.0152035	77.54047

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.881980	.0052689	.0350333	191.6050	.1737905	.0914018
Stddev	.006285	.0001886	.0001691	.2845	.0039093	.0006140
%RSD	.2180772	3.579750	.4825947	.1484661	2.249402	.6717477
#1	2.889154	.0050513	.0351883	191.9326	.1728185	.0921036
#2	2.879340	.0053860	.0348530	191.4212	.1704590	.0909638
#3	2.877446	.0053694	.0350586	191.4611	.1780941	.0911378

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 34.16380	158.0226	8.671782	36.52603	.2161560	-.000659
Stddev	.03603	.2619	.012484	.06887	.0008634	.000676
%RSD	.1054494	.1657622	.1439634	.1885485	.3994288	102.6575
#1	34.20540	158.2792	8.686157	36.50027	.2158827	-.000576
#2	34.14317	157.7556	8.663665	36.47375	.2154622	-.001372
#3	34.14283	158.0328	8.665522	36.60406	.2171229	-.000027

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.193951	.2254502	5.031354	11.24844	F 24.74192	.0697764
Stddev	.268449	.0023328	.070241	.07710	.03957	.0029003
%RSD	12.23586	1.034744	1.396057	.6854026	.1599188	4.156505
#1	2.394829	.2235452	5.017061	11.17649	24.74091	.0724116
#2	2.297964	.2280521	4.969360	11.23903	24.70287	.0702485
#3	1.889060	.2247534	5.107642	11.32982	24.78199	.0666690

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-22 Acquired: 12/02/2024 23:02:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHZ2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0096972	3.866469	5.998259	.2524119	1.287584	.0752858
Stddev	.0003747	.014315	.026924	.0018636	.003661	.0015002
%RSD	3.863935	.3702424	.4488586	.7383148	.2843090	1.992648
#1	.0093188	3.868991	5.987550	.2509981	1.288740	.0768198
#2	.0100681	3.851060	5.978338	.2545237	1.290527	.0752158
#3	.0097047	3.879355	6.028890	.2517138	1.283485	.0738219

Elem	Sr4077
Units	ppm
Avg	.4756079
Stddev	.0009103
%RSD	.1913958
#1	.4766381
#2	.4749124
#3	.4752730

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1168.650	35055.35	6922.767	1041.826	1615.837
Stddev	.852	385.02	11.033	11.450	2.391
%RSD	.0729000	1.098329	.1593668	1.099072	.1479946
#1	1169.431	35057.01	6922.742	1043.329	1618.548
#2	1168.778	35439.54	6933.812	1052.452	1614.931
#3	1167.741	34669.50	6911.746	1029.699	1614.030

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCV075 Acquired: 12/02/2024 23:06:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV075 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.356150	5.104113	24.62797	4.930313	4.710762	398.4206
Stddev	.005174	.024630	.03178	.007983	.009494	3.9267
%RSD	.0966081	.4825574	.1290364	.1619126	.2015404	.9855628
#1	5.362081	5.084992	24.60019	4.922319	4.713655	394.4331
#2	5.352558	5.095441	24.62111	4.930337	4.700158	402.2835
#3	5.353810	5.131907	24.66262	4.938284	4.718473	398.5453

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.953549	.5159514	2.610591	402.4606	15.28819	2.489543
Stddev	.076343	.0028823	.006682	3.1821	.04361	.006066
%RSD	.7669923	.5586360	.2559624	.7906614	.2852400	.2436617
#1	9.921429	.5154125	2.606248	400.8533	15.33808	2.484023
#2	10.04070	.5190651	2.607240	406.1258	15.25733	2.488568
#3	9.89851	.5133766	2.618285	400.4028	15.26916	2.496037

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.83665	405.1787	14.64331	420.6258	2.457267	1.246283
Stddev	.10657	2.7700	.11473	3.4120	.007345	.005998
%RSD	.7182819	.6836399	.7835016	.8111788	.2989101	.4812467
#1	14.81358	405.0473	14.60380	420.4484	2.450241	1.251550
#2	14.95286	408.0120	14.77258	424.1230	2.456665	1.239755
#3	14.74350	402.4768	14.55356	417.3059	2.464894	1.247542

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	401.6485	2.485037	14.25119	151.9548	5.024084	F 4.399625
Stddev	2.7391	.012724	.04217	.9308	.030598	.026216
%RSD	.6819762	.5120148	.2959085	.6125551	.6090183	.5958595
#1	402.0771	2.493792	14.21664	151.7926	4.988834	4.399150
#2	404.1480	2.490877	14.23874	152.9560	5.043778	4.426074
#3	398.7203	2.470441	14.29818	151.1157	5.039640	4.373650

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCV075 Acquired: 12/02/2024 23:06:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV075 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.803605	4.969248	F 3.458479	4.993325	4.999973	4.841489
Stddev	.006497	.023915	.014341	.007359	.038564	.038661
%RSD	.1352593	.4812641	.4146600	.1473673	.7712807	.7985355
#1	4.799302	4.971484	3.454677	4.996013	4.992925	4.830930
#2	4.800435	4.944294	3.474338	4.985000	5.041574	4.884333
#3	4.811079	4.991967	3.446422	4.998961	4.965419	4.809205

Elem	Sr4077
Units	ppm
Avg	4.917421
Stddev	.017647
%RSD	.3588768
#1	4.897050
#2	4.928055
#3	4.927159

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	820.9041	26146.91	5418.165	682.2331	1346.749
Stddev	1.7568	27.62	34.181	2.9079	3.474
%RSD	.2140124	.1056294	.6308575	.4262299	.2579817
#1	821.6670	26115.03	5444.787	685.2305	1349.491
#2	822.1506	26163.49	5379.619	682.0451	1347.914
#3	818.8948	26162.21	5430.089	679.4238	1342.842

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCB075 Acquired: 12/02/2024 23:10:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB075 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0069030	-.000366	-.000545	-.001984	.0009530	.0517103	.0005749
Stddev	.0069782	.002163	.001018	.010507	.0014977	.0094073	.0003395
%RSD	101.0889	590.7496	186.9671	529.5496	157.1541	18.19233	59.05076
#1	.0032926	.000553	-.000781	-.013807	-.000257	.0429918	.0008825
#2	.0024697	.001186	.000571	.001566	.002628	.0616810	.0006314
#3	.0149467	-.002836	-.001424	.006289	.000487	.0504580	.0002107

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000382	.0000076	.0120613	.0007484	.0000176	.0008008	.0066137
Stddev	.0001033	.0000493	.0022212	.0008435	.0005112	.0033555	.0116952
%RSD	270.4548	648.3958	18.41580	112.7108	2905.743	419.0073	176.8317
#1	.0001557	-.000029	.0108344	.0015646	-.000158	.0005364	-.006487
#2	-.000002	.000064	.0146253	-.000120	.000593	-.002415	.010324
#3	-.000039	-.000012	.0107243	.000801	-.000382	.004281	.016003

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009790	.0030146	.0002005	.0011173	.2212924	-.001310	.0002744
Stddev	.0004522	.0373638	.0002072	.0010317	.4932363	.006767	.0001334
%RSD	46.18357	1239.418	103.3174	92.33326	222.8890	516.6273	48.62077
#1	.0007074	.0411998	.0004089	.0007986	-.250822	-.008316	.0004129
#2	.0015010	.0013138	.0001980	.0002827	.733236	-.000802	.0002635
#3	.0007287	-.033470	-.000005	.0022708	.181464	.005189	.0001468

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.153594	-.001253	-.001851	.0003497	.0003732	.0012061	-.000503
Stddev	.192349	.003960	.001146	.0008798	.0013179	.0000632	.001285
%RSD	125.2324	315.9430	61.90016	251.6197	353.1746	5.240344	255.4061
#1	-.375496	.002450	-.000803	.0012886	-.000344	.0012789	-.001051
#2	-.034409	-.000783	-.003074	-.000456	.001894	.0011664	-.001424
#3	-.050876	-.005427	-.001676	.000216	-.000431	.0011728	.000965

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCB075 Acquired: 12/02/2024 23:10:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB075 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0016631	-.007100	.0001674
Stddev	.0013249	.000766	.0000814
%RSD	79.66540	10.78700	48.61340
#1	.0012876	-.007934	.0002574
#2	.0005665	-.006428	.0000988
#3	.0031353	-.006939	.0001462

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1014.320	29710.43	5523.980	894.7882	1878.449
Stddev	5.862	495.37	65.838	13.7060	9.074
%RSD	.5778777	1.667335	1.191852	1.531763	.4830416
#1	1012.762	29838.21	5597.071	900.0349	1876.726
#2	1009.394	30129.40	5505.539	905.0958	1870.360
#3	1020.803	29163.69	5469.329	879.2339	1888.260

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-01 Acquired: 12/02/2024 23:15:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHR1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2481749	-.010220	3.141775	.0007836	.0057428	76.06615
Stddev	.0091333	.002879	.010043	.0052584	.0050120	.04167
%RSD	3.680189	28.17296	.3196634	671.0842	87.27477	.0547776
#1	.2586979	-.011513	3.140841	-.003727	.0043554	76.10543
#2	.2435182	-.006921	3.132231	-.000482	.0015707	76.02245
#3	.2423085	-.012226	3.152252	.006559	.0113025	76.07057

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.285272	.0052604	.0180121	107.8301	.3001755	.1270686
Stddev	.001814	.0000451	.0002024	.1384	.0080578	.0005724
%RSD	.0793647	.8580617	1.123619	.1283251	2.684345	.4505053
#1	2.284747	.0053125	.0182449	107.7341	.2911261	.1277201
#2	2.287290	.0052355	.0179128	107.9887	.3065732	.1268390
#3	2.283778	.0052332	.0178785	107.7675	.3028274	.1266465

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5691731	206.2031	16.69431	38.80517	.2376381	-.016623
Stddev	.0027442	.2086	.02470	.24238	.0004690	.001437
%RSD	.4821359	.1011778	.1479458	.6245965	.1973442	8.641646
#1	.5681047	206.0681	16.70774	38.53075	.2376440	-.017960
#2	.5671238	206.4434	16.70938	38.98997	.2381041	-.015105
#3	.5722908	206.0979	16.66580	38.89480	.2371662	-.016804

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.163703	.2313266	2.112989	13.12988	F 21.59122	.0706954
Stddev	.279006	.0031209	.055940	.02157	.05653	.0022965
%RSD	12.89485	1.349124	2.647426	.1642781	.2617970	3.248428
#1	2.055791	.2329098	2.051234	13.10534	21.65551	.0711743
#2	2.480548	.2277315	2.160268	13.13850	21.56882	.0727147
#3	1.954770	.2333386	2.127465	13.14582	21.54932	.0681972

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-01 Acquired: 12/02/2024 23:15:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHR1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0089703	5.080601	5.738233	.1701967	1.589257	.0800817
Stddev	.0008180	.020054	.024275	.0019390	.001140	.0007291
%RSD	9.119619	.3947103	.4230357	1.139242	.0717128	.9103906
#1	.0080947	5.059355	5.714368	.1691398	1.588133	.0808083
#2	.0097151	5.083250	5.762898	.1724345	1.589227	.0800867
#3	.0091010	5.099199	5.737434	.1690159	1.590412	.0793502

Elem	Sr4077
Units	ppm
Avg	.2831237
Stddev	.0006307
%RSD	.2227600
#1	.2838245
#2	.2829450
#3	.2826016

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1181.667	34827.25	6909.833	1028.755	1653.121
Stddev	4.463	743.21	25.094	21.387	4.480
%RSD	.3776554	2.133975	.3631675	2.078949	.2710096
#1	1176.684	35604.18	6890.172	1051.741	1649.292
#2	1183.020	34123.13	6901.230	1009.441	1652.023
#3	1185.297	34754.45	6938.097	1025.085	1658.048

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-02 Acquired: 12/02/2024 23:19:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHR2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2293216	-.009421	3.803218	-.003132	.0071282	81.04107
Stddev	.0104024	.002851	.016957	.007588	.0021173	4.20065
%RSD	4.536150	30.26477	.4458710	242.3079	29.70283	5.183357
#1	.2202742	-.007197	3.822536	.001095	.0050092	82.70587
#2	.2406877	-.008429	3.796331	.001402	.0071317	76.26319
#3	.2270031	-.012635	3.790788	-.011892	.0092438	84.15414

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.426817	.0059117	.0198338	99.60246	.3021622	.1306913
Stddev	.123651	.0002301	.0005107	4.94731	.0086997	.0007067
%RSD	5.095173	3.891703	2.574894	4.967060	2.879154	.5407605
#1	2.474219	.0058274	.0194668	101.4955	.2927956	.1313892
#2	2.286479	.0057357	.0204170	93.9882	.3099896	.1307085
#3	2.519753	.0061721	.0196175	103.3237	.3037015	.1299761

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5749125	211.6868	17.06030	38.79197	.2561323	-.020391
Stddev	.0313188	10.9109	.86748	1.91368	.0017216	.001837
%RSD	5.447581	5.154246	5.084817	4.933180	.6721587	9.008812
#1	.5910223	216.0159	17.42621	39.49628	.2577892	-.022134
#2	.5388179	199.2757	16.06981	36.62595	.2543526	-.018473
#3	.5948972	219.7688	17.68487	40.25369	.2562550	-.020564

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.095656	.2468095	2.084602	10.39046	F 21.45899	.0738897
Stddev	.173062	.0114418	.058697	.58880	.05675	.0061744
%RSD	8.258122	4.635869	2.815760	5.666722	.2644751	8.356277
#1	2.255199	.2515735	2.021282	10.66897	21.52314	.0772155
#2	1.911673	.2337555	2.137199	9.71408	21.41532	.0667653
#3	2.120095	.2550995	2.095323	10.78834	21.43851	.0776883

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-02 Acquired: 12/02/2024 23:19:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHR2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0080322	4.751625	5.835313	.1533172	1.378046	.0807186
Stddev	.0002820	.010632	.200891	.0015934	.071291	.0071872
%RSD	3.510833	.2237629	3.442674	1.039249	5.173374	8.904033
#1	.0080614	4.748166	5.873413	.1538577	1.408238	.0828823
#2	.0077367	4.743153	5.618100	.1545699	1.296627	.0726981
#3	.0082984	4.763556	6.014425	.1515238	1.429274	.0865754

Elem	Sr4077
Units	ppm
Avg	.2946862
Stddev	.0156863
%RSD	5.323039
#1	.3013124
#2	.2767742
#3	.3059720

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1239.951	37182.21	7286.627	1101.781	1663.950
Stddev	2.758	682.58	292.269	21.041	6.385
%RSD	.2224470	1.835767	4.011027	1.909703	.3837007
#1	1237.724	37952.70	7161.832	1124.875	1656.817
#2	1243.036	36653.18	7620.577	1083.699	1669.130
#3	1239.092	36940.76	7077.472	1096.770	1665.904

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-03 Acquired: 12/02/2024 23:24:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHR3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1625744	.0013289	3.333937	-.006643	.0062003	63.44440
Stddev	.0055360	.0055898	.012900	.004498	.0021270	3.37797
%RSD	3.405182	420.6437	.3869307	67.70931	34.30450	5.324300
#1	.1661177	.0044185	3.319316	-.003144	.0044690	59.57967
#2	.1654104	.0046918	3.343712	-.011716	.0085745	64.92007
#3	.1561951	-.005124	3.338783	-.005069	.0055572	65.83347

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.268253	.0045684	.0148920	90.79641	.2115353	.0978970
Stddev	.117769	.0000379	.0003118	4.65822	.0019696	.0002231
%RSD	5.192077	.8295478	2.093531	5.130401	.9310864	.2279230
#1	2.133862	.0045934	.0151526	85.47523	.2118246	.0977170
#2	2.317453	.0045248	.0149768	92.77674	.2094371	.0978273
#3	2.353445	.0045870	.0145466	94.13726	.2133442	.0981467

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5297660	158.4308	15.68659	27.99952	.1933957	-.012404
Stddev	.0309225	8.1155	.79847	1.46583	.0008735	.000436
%RSD	5.837014	5.122448	5.090139	5.235196	.4516760	3.517151
#1	.4945178	149.1730	14.77607	26.31598	.1925931	-.012076
#2	.5424530	161.8018	16.01627	28.68989	.1943261	-.012899
#3	.5523272	164.3175	16.26743	28.99270	.1932677	-.012237

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.676049	.1868187	2.036042	8.243920	F 16.64332	.0578497
Stddev	.169411	.0114852	.016909	.617790	.04308	.0036770
%RSD	10.10776	6.147770	.8304650	7.493886	.2588320	6.356090
#1	1.550537	.1742600	2.035056	7.533867	16.59618	.0538081
#2	1.608861	.1894076	2.019647	8.539507	16.68065	.0587438
#3	1.868747	.1967885	2.053421	8.658387	16.65313	.0609971

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-03 Acquired: 12/02/2024 23:24:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHR3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0065569	3.108178	5.705794	.1049122	1.202749	.0615343
Stddev	.0003146	.012235	.224908	.0010125	.063897	.0051385
%RSD	4.798264	.3936334	3.941755	.9651195	5.312586	8.350559
#1	.0063007	3.103211	5.447067	.1058633	1.129707	.0557028
#2	.0064619	3.099208	5.815694	.1038478	1.230246	.0635019
#3	.0069080	3.122115	5.854622	.1050255	1.248295	.0653982

Elem	Sr4077
Units	ppm
Avg	.2741298
Stddev	.0140483
%RSD	5.124678
#1	.2581115
#2	.2799221
#3	.2843559

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1166.847	34576.39	6854.909	1020.517	1689.563
Stddev	3.105	343.05	266.194	6.134	3.170
%RSD	.2661377	.9921648	3.883266	.6011103	.1876399
#1	1169.457	34810.09	7162.087	1022.716	1693.181
#2	1167.671	34736.54	6710.841	1025.249	1687.274
#3	1163.412	34182.55	6691.799	1013.586	1688.233

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-04 Acquired: 12/02/2024 23:28:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHR4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2507618	-.006050	18.26975	-.002419	.0044612	77.74918
Stddev	.0096971	.003992	.04524	.005212	.0030026	.20175
%RSD	3.867061	65.99049	.2476105	215.4564	67.30464	.2594947
#1	.2607112	-.007855	18.23406	-.007956	.0025839	77.97895
#2	.2413384	-.001474	18.25457	-.001693	.0028754	77.66762
#3	.2502357	-.008821	18.32063	.002392	.0079242	77.60098

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.819014	.0058746	.0251618	153.4237	.2008582	.1579935
Stddev	.014587	.0000559	.0002324	.3384	.0011303	.0015187
%RSD	.3819469	.9506234	.9234361	.2205531	.5627201	.9612306
#1	3.833825	.0058743	.0250451	153.6366	.2007390	.1574086
#2	3.818554	.0058189	.0250108	153.6010	.2020433	.1568541
#3	3.804663	.0059306	.0254293	153.0335	.1997923	.1597176

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8433304	232.7705	28.11459	40.29864	.2678769	-.016863
Stddev	.0017428	.6609	.02405	.03246	.0015681	.000277
%RSD	.2066616	.2839086	.0855330	.0805593	.5853658	1.641934
#1	.8422076	233.5264	28.12093	40.33485	.2662593	-.017157
#2	.8424454	232.4831	28.13483	40.27213	.2693902	-.016825
#3	.8453382	232.3020	28.08800	40.28895	.2679812	-.016607

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.344333	.2586912	2.848871	10.05620	F 25.46035	.0765705
Stddev	.236855	.0067048	.013230	.07829	.06633	.0031092
%RSD	10.10328	2.591805	.4644102	.7785444	.2605132	4.060561
#1	2.435090	.2564727	2.834177	10.03976	25.42360	.0741013
#2	2.522388	.2533770	2.852596	10.14141	25.42054	.0800621
#3	2.075521	.2662241	2.859839	9.98744	25.53692	.0755480

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-04 Acquired: 12/02/2024 23:28:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHR4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0112804	4.039496	6.179553	.2399046	1.303114	.0770708
Stddev	.0008183	.018743	.003319	.0014211	.004067	.0003004
%RSD	7.254383	.4639881	.0537079	.5923396	.3120871	.3897237
#1	.0117689	4.019350	6.179495	.2401522	1.307750	.0773621
#2	.0117366	4.056418	6.182900	.2383760	1.301448	.0770882
#3	.0103356	4.042720	6.176263	.2411856	1.300145	.0767621

Elem	Sr4077
Units	ppm
Avg	.4206000
Stddev	.0007062
%RSD	.1679127
#1	.4210068
#2	.4210087
#3	.4197845

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1228.867	36635.86	7219.163	1084.775	1610.508
Stddev	1.629	52.72	4.000	4.883	4.319
%RSD	.1325712	.1438894	.0554085	.4501548	.2681544
#1	1228.202	36686.14	7221.987	1089.728	1615.028
#2	1230.723	36581.01	7214.585	1084.631	1610.071
#3	1227.675	36640.45	7220.916	1079.965	1606.424

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-05 Acquired: 12/02/2024 23:32:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHR5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1599885	-.004957	1.721128	-.020733	.0022073	60.82178
Stddev	.0092564	.002379	.015315	.007345	.0021900	.12588
%RSD	5.785633	47.99564	.8898192	35.42658	99.21630	.2069601
#1	.1586228	-.002353	1.731672	-.027682	.0047294	60.75946
#2	.1514909	-.005502	1.703561	-.021470	.0007876	60.73922
#3	.1698518	-.007017	1.728150	-.013047	.0011049	60.96666

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.273302	.0035456	.0168025	345.3641	.1276407	.1314021
Stddev	.004983	.0001355	.0003876	.8067	.0007648	.0008682
%RSD	.1522305	3.820548	2.306832	.2335889	.5992035	.6607196
#1	3.273191	.0033911	.0169660	345.4507	.1277715	.1313259
#2	3.268376	.0036020	.0163599	344.5176	.1268190	.1305745
#3	3.278340	.0036438	.0170815	346.1241	.1283318	.1323059

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5549844	186.6325	F 35.38321	61.08851	.2304419	-.010211
Stddev	.0012126	.5285	.06813	.30057	.0022691	.000369
%RSD	.2184847	.2831993	.1925536	.4920215	.9846632	3.613339
#1	.5551251	186.1594	35.42618	60.79989	.2316345	-.010217
#2	.5537076	186.5351	35.30466	61.06588	.2278252	-.010577
#3	.5561204	187.2029	35.41880	61.39975	.2318660	-.009839

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.928708	.1812690	1.377370	8.244354	F 15.97446	.0546362
Stddev	.133602	.0030318	.008471	.068966	.11308	.0032034
%RSD	6.927034	1.672540	.6150265	.8365234	.7078741	5.863212
#1	2.030791	.1841900	1.386120	8.177511	15.95104	.0536731
#2	1.977835	.1781374	1.369209	8.240287	15.87493	.0582107
#3	1.777497	.1814797	1.376782	8.315263	16.09742	.0520248

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-05 Acquired: 12/02/2024 23:32:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHR5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0087346	2.148230	5.403109	.1301317	1.080818	.0689864
Stddev	.0005474	.003589	.005152	.0017463	.005124	.0019877
%RSD	6.267198	.1670595	.0953559	1.341956	.4741178	2.881330
#1	.0087827	2.148109	5.408098	.1302706	1.075388	.0667251
#2	.0081647	2.144704	5.403420	.1318045	1.081495	.0697763
#3	.0092564	2.151878	5.397808	.1283201	1.085569	.0704577

Elem	Sr4077
Units	ppm
Avg	.4285033
Stddev	.0005581
%RSD	.1302320
#1	.4283321
#2	.4280509
#3	.4291269

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1137.604	34104.39	6780.096	1010.934	1550.192
Stddev	1.244	19.58	6.420	6.578	5.816
%RSD	.1093312	.0573987	.0946853	.6506935	.3751567
#1	1138.390	34112.08	6774.487	1003.366	1547.532
#2	1138.252	34082.14	6787.098	1015.285	1556.862
#3	1136.170	34118.96	6778.704	1014.150	1546.182

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-06 Acquired: 12/02/2024 23:37:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHR6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2221660	-.017924	1.293522	-.015357	.0047827	63.92656
Stddev	.0129248	.005414	.032053	.004909	.0006576	1.04887
%RSD	5.817625	30.20405	2.477979	31.96872	13.75037	1.640735
#1	.2282119	-.015231	1.266505	-.019511	.0054164	62.80197
#2	.2309597	-.014386	1.328939	-.009939	.0041035	64.87820
#3	.2073263	-.024157	1.285122	-.016619	.0048281	64.09953

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.711004	.0048766	.0200957	242.4112	.1182777	.1412896
Stddev	.023423	.0000960	.0007046	3.3818	.0014725	.0035472
%RSD	1.368970	1.967540	3.506104	1.395050	1.244977	2.510587
#1	1.686966	.0047710	.0195331	238.8214	.1199440	.1383137
#2	1.733760	.0049002	.0208860	245.5370	.1177379	.1452149
#3	1.712285	.0049585	.0198681	242.8753	.1171513	.1403402

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5748775	246.2098	19.92726	78.43266	.2311399	-.020437
Stddev	.0055077	4.2612	.27440	1.55520	.0055688	.000428
%RSD	.9580599	1.730699	1.377001	1.982852	2.409260	2.092313
#1	.5687445	241.5550	19.64160	76.68980	.2265264	-.020070
#2	.5794016	249.9183	20.18880	79.67891	.2373258	-.020907
#3	.5764863	247.1560	19.95137	78.92928	.2295673	-.020334

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.665635	.1957679	1.197444	8.976669	F 28.75986	.0687205
Stddev	.090860	.0022317	.001023	.133981	.75569	.0052534
%RSD	3.408561	1.139947	.0854553	1.492547	2.627602	7.644640
#1	2.769088	.1933614	1.198312	8.838505	28.16736	.0628002
#2	2.629030	.1977691	1.197706	9.106034	29.61089	.0728256
#3	2.598788	.1961732	1.196316	8.985467	28.50134	.0705357

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-06 Acquired: 12/02/2024 23:37:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHR6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0068163	2.203595	5.424185	.1001711	1.055444	.0664278
Stddev	.0007395	.055224	.065582	.0061262	.017436	.0012553
%RSD	10.84957	2.506074	1.209071	6.115753	1.652007	1.889710
#1	.0069730	2.158817	5.359917	.0981077	1.035314	.0661368
#2	.0060110	2.265301	5.491006	.1070626	1.065177	.0678031
#3	.0074649	2.186668	5.421631	.0953430	1.065840	.0653436

Elem	Sr4077
Units	ppm
Avg	.3609640
Stddev	.0056062
%RSD	1.553110
#1	.3550412
#2	.3661879
#3	.3616630

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1219.775	36851.16	7329.755	1092.086	1539.566
Stddev	16.559	21.90	88.376	3.229	36.130
%RSD	1.357548	.0594360	1.205719	.2957040	2.346756
#1	1232.305	36827.67	7424.041	1090.825	1568.954
#2	1201.002	36871.03	7248.804	1095.756	1499.228
#3	1226.018	36854.77	7316.421	1089.678	1550.517

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-07 Acquired: 12/02/2024 23:41:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHR7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0774314	-.013173	1.386468	-.017514	.0083021	83.75448
Stddev	.0068524	.001150	.009790	.010605	.0041755	6.80510
%RSD	8.849597	8.729490	.7061231	60.55086	50.29455	8.125064
#1	.0845792	-.014304	1.375263	-.014683	.0112362	85.20246
#2	.0767963	-.013209	1.393369	-.029246	.0101484	76.34192
#3	.0709187	-.012005	1.390771	-.008611	.0035217	89.71905

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.216727	.0061975	.0162345	453.9047	.1517806	.0934161
Stddev	.097117	.0003520	.0005908	35.6274	.0018117	.0007405
%RSD	7.981833	5.679244	3.639213	7.849098	1.193621	.7927341
#1	1.234979	.0063105	.0159735	460.4673	.1507585	.0929968
#2	1.111779	.0058030	.0169109	415.4522	.1538724	.0942712
#3	1.303423	.0064792	.0158191	485.7945	.1507110	.0929805

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3465773	205.3025	6.380431	134.5041	.2760044	-.009223
Stddev	.0275872	16.7118	.492864	10.8627	.0018973	.001472
%RSD	7.959883	8.140095	7.724619	8.076077	.6874144	15.96022
#1	.3521307	209.2804	6.472151	137.0724	.2738319	-.009831
#2	.3166358	186.9607	5.848150	122.5875	.2773356	-.007544
#3	.3709652	219.6665	6.820992	143.8525	.2768457	-.010293

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.962329	.1929904	1.661498	13.63455	F 10.95194	.1156177
Stddev	.178876	.0147183	.007511	1.21603	.04893	.0144405
%RSD	9.115517	7.626413	.4520396	8.918774	.4467445	12.48987
#1	2.164436	.1969210	1.663554	13.91198	10.92883	.1228990
#2	1.898175	.1767059	1.653173	12.30377	11.00814	.0989861
#3	1.824377	.2053443	1.667766	14.68789	10.91885	.1249681

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-07 Acquired: 12/02/2024 23:41:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHR7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0083006	8.192238	6.531753	.0650890	1.115803	.1084998
Stddev	.0006558	.049987	.417255	.0042229	.092230	.0118262
%RSD	7.900140	.6101735	6.388100	6.487798	8.265826	10.89976
#1	.0082571	8.135249	6.612991	.0621557	1.138235	.1111995
#2	.0076676	8.228661	6.079853	.0699290	1.014426	.0955571
#3	.0089770	8.212803	6.902415	.0631825	1.194748	.1187427

Elem	Sr4077
Units	ppm
Avg	.6477785
Stddev	.0517250
%RSD	7.984978
#1	.6577643
#2	.5917887
#3	.6937826

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1049.570	31235.45	6400.638	926.4310	1510.175
Stddev	1.810	12.15	419.272	2.7033	5.509
%RSD	.1724599	.0389118	6.550472	.2917930	.3647605
#1	1048.861	31235.46	6303.486	923.4490	1514.076
#2	1048.222	31223.29	6859.957	928.7211	1503.874
#3	1051.627	31247.60	6038.470	927.1229	1512.575

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-08 Acquired: 12/02/2024 23:45:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHR8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0730708	-.014692	1.177075	-.012410	.0077498	80.37743	1.095404
Stddev	.0038971	.002463	.010075	.007528	.0026582	.63765	.008973
%RSD	5.333392	16.76354	.8559001	60.65951	34.30067	.7933216	.8191125
#1	.0775485	-.011888	1.165453	-.009683	.0102987	81.10890	1.105749
#2	.0712198	-.015685	1.183328	-.020921	.0079563	80.08459	1.090726
#3	.0704441	-.016504	1.182444	-.006626	.0049943	79.93880	1.089738

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0061080	.0313450	569.3162	.1421178	.0867450	.2980995	183.0387
Stddev	.0000852	.0003620	4.9344	.0003470	.0013074	.0035383	1.3403
%RSD	1.395605	1.154823	.8667265	.2441880	1.507137	1.186940	.7322481
#1	.0060781	.0309452	574.4921	.1424119	.0865034	.3021597	184.5841
#2	.0062042	.0316505	568.7910	.1417350	.0881563	.2964638	182.3392
#3	.0060417	.0314393	564.6653	.1422066	.0855753	.2956751	182.1929

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.233130	179.2041	.2565300	-.004042	2.052751	.1788226	4.413666
Stddev	.059136	1.4970	.0036007	.000502	.394922	.0047590	.048291
%RSD	.9487296	.8353873	1.403611	12.41055	19.23870	2.661284	1.094117
#1	6.301411	180.9170	.2528072	-.004535	2.046672	.1818003	4.366328
#2	6.198440	178.5497	.2567881	-.004057	2.450678	.1813335	4.411815
#3	6.199540	178.1457	.2599946	-.003533	1.660903	.1733341	4.462856

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.05763	8.034980	.0960836	.0071676	8.135622	6.567145	.0357899
Stddev	.23262	.056407	.0043344	.0007264	.051295	.060351	.0020705
%RSD	2.312832	.7020170	4.511073	10.13507	.6305042	.9189879	5.785274
#1	10.32515	7.969908	.0979112	.0077044	8.077868	6.635245	.0378226
#2	9.90299	8.065063	.0992048	.0063410	8.175882	6.520287	.0358634
#3	9.94475	8.069968	.0911347	.0074573	8.153115	6.545903	.0336835

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-08 Acquired: 12/02/2024 23:45:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHR8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.9978568	.1053152	.6491659
Stddev	.0102174	.0021731	.0052622
%RSD	1.023930	2.063391	.8106074
#1	1.009636	.1078232	.6552092
#2	.991396	.1039936	.6455975
#3	.992538	.1041288	.6466908

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1016.686	30276.34	6223.924	901.4935	1468.268
Stddev	4.398	171.94	54.218	8.0345	11.365
%RSD	.4326197	.5679179	.8711279	.8912467	.7740663
#1	1021.665	30359.52	6161.647	910.2513	1481.056
#2	1013.330	30390.88	6249.508	899.7658	1459.322
#3	1015.062	30078.62	6260.616	894.4633	1464.424

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-09 Acquired: 12/02/2024 23:50:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHR9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0568966	-.018804	.9565611	-.010204	.0080878	117.2809	1.533310
Stddev	.0121973	.009340	.0046904	.009184	.0041554	1.1300	.008399
%RSD	21.43763	49.67097	.4903453	90.00664	51.37852	.9635242	.5477593
#1	.0544539	-.020949	.9511452	-.002856	.0042088	116.1397	1.526616
#2	.0701304	-.008578	.9593066	-.007255	.0075813	118.3994	1.542734
#3	.0461056	-.026886	.9592316	-.020500	.0124731	117.3035	1.530580

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0078352	.0193043	554.3916	.1792535	.1164410	.3338456	238.1070
Stddev	.0000654	.0003792	5.7958	.0012722	.0009169	.0035631	2.7010
%RSD	.8340547	1.964306	1.045439	.7097255	.7874512	1.067297	1.134358
#1	.0078515	.0189869	547.7546	.1794434	.1158762	.3309913	235.3994
#2	.0077633	.0192018	558.4545	.1804201	.1174990	.3378390	240.8013
#3	.0078909	.0197242	556.9657	.1778970	.1159478	.3327064	238.1203

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.049428	165.9654	.3073096	-.010712	2.095790	.2539933	1.808078
Stddev	.037655	1.9421	.0012872	.000354	.217792	.0032283	.001630
%RSD	.6224617	1.170168	.4188485	3.304101	10.39189	1.271031	.0901369
#1	6.006103	163.8895	.3062031	-.010384	2.290914	.2555430	1.806672
#2	6.074277	167.7379	.3087222	-.010665	1.860829	.2561546	1.807698
#3	6.067903	166.2688	.3070034	-.011087	2.135625	.2502823	1.809864

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.36049	8.069793	.0829209	.0074526	4.799229	6.875403	.0345263
Stddev	.08189	.009194	.0033100	.0006959	.032705	.053417	.0018381
%RSD	.7904172	.1139318	3.991759	9.337862	.6814644	.7769234	5.323880
#1	10.27112	8.080294	.0865162	.0077487	4.769090	6.814421	.0353339
#2	10.43193	8.063190	.0822465	.0079515	4.834005	6.897883	.0324226
#3	10.37842	8.065896	.0800001	.0066576	4.794591	6.913906	.0358224

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-09 Acquired: 12/02/2024 23:50:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHR9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.179906	.1628120	.7987546
Stddev	.014048	.0017679	.0061174
%RSD	1.190570	1.085876	.7658669
#1	1.165658	.1610396	.7926570
#2	1.193744	.1645755	.8048916
#3	1.180316	.1628208	.7987153

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1055.206	31407.00	6419.743	936.1028	1466.632
Stddev	.498	73.72	46.711	.0663	3.342
%RSD	.0471588	.2347147	.7276175	.0070778	.2279030
#1	1054.638	31345.44	6473.664	936.0662	1468.366
#2	1055.563	31386.86	6393.946	936.1792	1462.778
#3	1055.418	31488.69	6391.619	936.0628	1468.750

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-10 Acquired: 12/02/2024 23:55:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHS0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0842459	-.010920	2.079892	-.012738	.0090145	97.65450	1.808594
Stddev	.0079471	.002288	.001537	.007499	.0036975	.22982	.004746
%RSD	9.433186	20.95301	.0739004	58.87276	41.01701	.2353416	.2624205
#1	.0801609	-.009097	2.078350	-.020062	.0122341	97.86309	1.812083
#2	.0934047	-.013488	2.079900	-.005074	.0098330	97.69228	1.810510
#3	.0791722	-.010176	2.081424	-.013079	.0049763	97.40812	1.803190

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0074304	.0171036	503.7782	.1559517	.0960041	.3917701	218.3996
Stddev	.0000252	.0002153	1.3259	.0004524	.0008674	.0031002	.5357
%RSD	.3385891	1.258649	.2631870	.2900901	.9035486	.7913237	.2452907
#1	.0074158	.0170527	504.4150	.1564679	.0969384	.3900026	218.9055
#2	.0074159	.0173398	504.6655	.1557627	.0958498	.3953498	218.4550
#3	.0074594	.0169183	502.2540	.1556243	.0952242	.3899580	217.8384

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.922927	127.3177	.2656221	-.009060	2.145176	.2190305	1.809748
Stddev	.015037	.4591	.0009911	.000185	.183940	.0052771	.014167
%RSD	.2538774	.3605808	.3731247	2.036788	8.574601	2.409311	.7828061
#1	5.926596	127.8401	.2658324	-.009243	2.159830	.2233253	1.797009
#2	5.935790	127.1343	.2664912	-.008874	1.954347	.2131396	1.825005
#3	5.906396	126.9786	.2645427	-.009062	2.321350	.2206266	1.807231

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.549536	7.324393	.0754893	.0070253	4.569015	6.810152	.0779751
Stddev	.176768	.034134	.0024281	.0009169	.033568	.024481	.0035478
%RSD	2.341448	.4660266	3.216506	13.05162	.7346947	.3594829	4.549851
#1	7.384508	7.363414	.0728315	.0060430	4.602939	6.814201	.0800053
#2	7.736076	7.309686	.0775914	.0078585	4.568293	6.832356	.0738786
#3	7.528023	7.300077	.0760451	.0071746	4.535814	6.783898	.0800414

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-10 Acquired: 12/02/2024 23:55:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHS0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.223675	.1290703	.7773506
Stddev	.001165	.0014532	.0019720
%RSD	.0952379	1.125925	.2536790
#1	1.224361	.1288535	.7788346
#2	1.224334	.1306197	.7781043
#3	1.222329	.1277376	.7751129

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1050.444	31307.01	6318.104	926.0436	1497.599
Stddev	1.160	15.64	29.983	6.6429	4.385
%RSD	.1104220	.0499678	.4745627	.7173379	.2928107
#1	1049.135	31295.04	6307.882	932.8403	1493.645
#2	1050.856	31301.28	6294.568	919.5661	1496.836
#3	1051.343	31324.71	6351.862	925.7243	1502.315

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-11 Acquired: 12/02/2024 23:59:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHS1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1771308	-.010732	3.874329	-.012549	.0113751	72.00713
Stddev	.0034564	.005785	.010912	.002140	.0064049	.03661
%RSD	1.951356	53.90161	.2816480	17.05136	56.30637	.0508369
#1	.1803379	-.005555	3.872315	-.014962	.0082993	71.96626
#2	.1775846	-.016976	3.864565	-.011802	.0187377	72.03690
#3	.1734698	-.009664	3.886108	-.010883	.0070883	72.01822

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.819134	.0079424	.0172371	533.6237	.1298230	.0891809
Stddev	.004419	.0001417	.0000704	1.8274	.0015738	.0007847
%RSD	.2429295	1.784287	.4083478	.3424499	1.212288	.8798746
#1	1.814957	.0077983	.0171826	532.5151	.1294116	.0899561
#2	1.823761	.0079473	.0173166	535.7328	.1284957	.0883871
#3	1.818685	.0080817	.0172122	532.6231	.1315616	.0891994

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5092169	203.7642	7.475355	131.4429	.2532360	-.006337
Stddev	.0048291	.3392	.021015	.2550	.0009401	.000087
%RSD	.9483411	.1664475	.2811283	.1940202	.3712228	1.376736
#1	.5037832	203.8125	7.460183	131.3286	.2521553	-.006432
#2	.5130184	204.0767	7.499342	131.7350	.2538647	-.006261
#3	.5108491	203.4035	7.466539	131.2649	.2536880	-.006317

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.515255	.1898206	2.046368	7.481729	F 10.77402	.1096244
Stddev	.103742	.0084795	.005536	.085370	.03118	.0045104
%RSD	4.124502	4.467102	.2705152	1.141051	.2894019	4.114442
#1	2.534149	.1993445	2.044412	7.483177	10.78068	.1090632
#2	2.608252	.1870265	2.052616	7.395644	10.74005	.1143892
#3	2.403365	.1830907	2.042075	7.566366	10.80133	.1054208

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-11 Acquired: 12/02/2024 23:59:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHS1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071825	6.734388	6.494243	.3164132	1.497098	.0957424
Stddev	.0003941	.007965	.011799	.0022021	.001519	.0015087
%RSD	5.487107	.1182675	.1816843	.6959693	.1014528	1.575810
#1	.0067479	6.725203	6.483314	.3143433	1.498638	.0953321
#2	.0075168	6.738569	6.492661	.3161692	1.497055	.0974138
#3	.0072827	6.739391	6.506753	.3187272	1.495602	.0944812

Elem	Sr4077
Units	ppm
Avg	.7815796
Stddev	.0018484
%RSD	.2364979
#1	.7796431
#2	.7833250
#3	.7817707

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1045.289	31172.93	6306.491	919.1022	1486.980
Stddev	1.660	42.78	12.879	2.9230	1.648
%RSD	.1588279	.1372227	.2042152	.3180302	.1108513
#1	1046.076	31146.72	6314.015	918.1491	1487.605
#2	1046.410	31222.29	6291.620	916.7747	1488.224
#3	1043.382	31149.78	6313.838	922.3828	1485.110

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-12 Acquired: 12/03/2024 0:03:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHS2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1266427	-.007616	1.757110	-.009322	.0165883	58.96684	1.201454
Stddev	.0123579	.006270	.002020	.005615	.0035319	.12322	.001106
%RSD	9.758104	82.32119	.1149352	60.23374	21.29189	.2089707	.0920709
#1	.1214573	-.001460	1.754831	-.005241	.0174671	59.02693	1.201530
#2	.1407486	-.013994	1.757822	-.006999	.0195978	59.04850	1.200311
#3	.1177223	-.007395	1.758677	-.015726	.0126999	58.82510	1.202519

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0062127	.0132750	292.8847	.0993990	.0760301	.4826239	190.0749
Stddev	.0001304	.0001314	.0294	.0008459	.0009588	.0035330	.3267
%RSD	2.098126	.9897060	.0100497	.8510372	1.261074	.7320343	.1718642
#1	.0061391	.0132194	292.8945	.1002227	.0750280	.4867028	190.2634
#2	.0063632	.0131805	292.9079	.0994418	.0769387	.4805212	190.2637
#3	.0061359	.0134250	292.8516	.0985324	.0761237	.4806478	189.6977

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.444596	78.89030	.1757839	-.009157	2.206568	.1612992	1.214330
Stddev	.006504	.07712	.0003923	.000333	.286728	.0044114	.006311
%RSD	.1009157	.0977590	.2231869	3.641301	12.99430	2.734930	.5197422
#1	6.441879	78.89151	.1753955	-.009467	2.535907	.1636450	1.207198
#2	6.452017	78.96682	.1757760	-.008805	2.012495	.1640420	1.216597
#3	6.439891	78.81259	.1761801	-.009201	2.071301	.1562105	1.219194

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.285116	7.116505	.0746034	.0056371	5.001591	6.739979	.1493078
Stddev	.037906	.017883	.0033596	.0003905	.041704	.012134	.0010842
%RSD	.7172141	.2512822	4.503297	6.927149	.8338165	.1800279	.7261307
#1	5.327921	7.106049	.0710461	.0052425	4.955182	6.732159	.1480573
#2	5.255798	7.106313	.0777223	.0060233	5.035926	6.753957	.1498823
#3	5.271630	7.137154	.0750418	.0056456	5.013665	6.733821	.1499838

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-12 Acquired: 12/03/2024 0:03:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHS2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.373069	.0720202	.5464861
Stddev	.004720	.0008454	.0003267
%RSD	.3437816	1.173873	.0597819
#1	1.375776	.0729588	.5463436
#2	1.375813	.0717831	.5468599
#3	1.367619	.0713186	.5462549

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1051.242	31237.35	6220.134	929.9669	1572.567
Stddev	1.624	.68	2.847	3.6758	4.037
%RSD	.1545039	.0021780	.0457760	.3952647	.2566824
#1	1053.098	31237.26	6221.412	934.0382	1576.957
#2	1050.550	31238.07	6216.871	928.9705	1571.729
#3	1050.079	31236.72	6222.118	926.8920	1569.015

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-13 Acquired: 12/03/2024 0:08:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHS3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1208153	-.012218	1.976485	-.018361	.0088080	61.50900	1.252797
Stddev	.0096203	.003761	.029019	.005781	.0010003	.16673	.000534
%RSD	7.962858	30.78292	1.468188	31.48365	11.35703	.2710675	.0425989
#1	.1132709	-.010509	1.963617	-.017064	.0085590	61.31660	1.253297
#2	.1175261	-.009615	1.956126	-.024680	.0079558	61.59936	1.252235
#3	.1316488	-.016530	2.009713	-.013339	.0099094	61.61105	1.252859

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0066852	.0119988	510.0106	.0909578	.0724467	.4325764	170.8950
Stddev	.0001613	.0004087	.7334	.0018797	.0006786	.0006865	.6310
%RSD	2.413297	3.406186	.1437996	2.066521	.9366657	.1586960	.3692469
#1	.0065562	.0121240	509.3524	.0928860	.0719932	.4321978	170.1722
#2	.0066332	.0115421	509.8783	.0908566	.0721201	.4333688	171.3359
#3	.0068661	.0123302	510.8012	.0891308	.0732268	.4321625	171.1771

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.525740	96.95036	.1608468	-.004826	2.605476	.1665202	1.219645
Stddev	.010705	.47307	.0013293	.000994	.099307	.0073987	.008486
%RSD	.1640502	.4879489	.8264106	20.59646	3.811474	4.443097	.6957687
#1	6.520671	96.40448	.1613053	-.003867	2.718430	.1725158	1.229422
#2	6.518511	97.20578	.1593490	-.004759	2.566117	.1582518	1.214191
#3	6.538038	97.24082	.1618862	-.005851	2.531882	.1687931	1.215324

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.962155	7.594503	.0838375	.0070994	4.548881	6.304452	.0764471
Stddev	.095410	.099129	.0020954	.0004194	.064747	.024349	.0040299
%RSD	1.370415	1.305277	2.499321	5.907415	1.423360	.3862211	5.271490
#1	6.893964	7.548843	.0825395	.0074150	4.523459	6.301939	.0804562
#2	7.071189	7.526432	.0827182	.0072596	4.500703	6.281456	.0723967
#3	6.921314	7.708234	.0862549	.0066235	4.622480	6.329960	.0764885

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-13 Acquired: 12/03/2024 0:08:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHS3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.318190	.0793157	.8073042
Stddev	.004366	.0007895	.0019266
%RSD	.3311937	.9953309	.2386433
#1	1.313156	.0786654	.8052374
#2	1.320479	.0801941	.8076249
#3	1.320936	.0790875	.8090503

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1035.006	30832.08	6208.497	918.4796	1517.563
Stddev	6.862	310.91	1.989	8.5157	17.460
%RSD	.6629977	1.008389	.0320379	.9271561	1.150521
#1	1040.214	30509.22	6207.302	908.8182	1523.977
#2	1037.573	30857.55	6207.395	921.7252	1530.909
#3	1027.230	31129.46	6210.793	924.8952	1497.804

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-15 Acquired: 12/03/2024 0:12:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHW9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0980774	-.006602	3.245259	-.007964	.0066737	66.96678	1.101477
Stddev	.0119487	.002421	.007631	.003873	.0014479	.49087	.008231
%RSD	12.18296	36.66839	.2351299	48.62731	21.69521	.7330106	.7472658
#1	.1038341	-.003830	3.242699	-.007945	.0083046	66.86828	1.104953
#2	.1060580	-.008300	3.239237	-.004101	.0055398	66.53263	1.092078
#3	.0843401	-.007676	3.253840	-.011846	.0061767	67.49944	1.107400

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053176	.0129719	202.1589	.1341046	.0921699	.4556707	175.6408
Stddev	.0001969	.0003564	1.0047	.0093379	.0007875	.0048173	1.3289
%RSD	3.702724	2.747632	.4970073	6.963152	.8543555	1.057198	.7566113
#1	.0051422	.0127394	202.3814	.1292196	.0914884	.4561730	175.2396
#2	.0052800	.0127942	201.0616	.1282224	.0919894	.4506219	174.5588
#3	.0055306	.0133823	203.0338	.1448717	.0930320	.4602172	177.1241

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.828226	48.34897	.1822969	-.010930	1.734908	.1754428	1.257912
Stddev	.034516	.35279	.0006690	.003397	.363651	.0020093	.070490
%RSD	.3511930	.7296814	.3670083	31.07817	20.96084	1.145245	5.603745
#1	9.839593	48.09302	.1830570	-.012988	1.578211	.1746701	1.210521
#2	9.789461	48.20249	.1817974	-.012794	2.150639	.1777237	1.224297
#3	9.855626	48.75141	.1820363	-.007009	1.475875	.1739346	1.338917

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.085005	9.295511	.0531980	.0018142	2.481867	5.847082	.1188284
Stddev	.062033	.051884	.0017471	.0001691	.011223	.060148	.0024647
%RSD	.8755487	.5581633	3.284155	9.322247	.4522038	1.028682	2.074184
#1	7.034291	9.264952	.0512624	.0016532	2.472419	5.784323	.1215611
#2	7.066554	9.266164	.0546582	.0017989	2.478909	5.852698	.1167735
#3	7.154169	9.355418	.0536734	.0019904	2.494273	5.904225	.1181507

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-15 Acquired: 12/03/2024 0:12:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHW9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.188610	.0827353	.3169726
Stddev	.009088	.0011415	.0018815
%RSD	.7646251	1.379751	.5935800
#1	1.188712	.0816435	.3173699
#2	1.179471	.0826418	.3149242
#3	1.197647	.0839208	.3186237

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1139.088	33008.95	6703.206	975.6037	1618.488
Stddev	3.571	1606.31	9.428	45.9995	6.172
%RSD	.3134633	4.866288	.1406421	4.714973	.3813713
#1	1137.324	33982.70	6710.990	1005.338	1618.798
#2	1143.198	33889.22	6692.724	998.853	1624.500
#3	1136.743	31154.93	6705.905	922.620	1612.167

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-16 Acquired: 12/03/2024 0:16:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0777696	-.005727	3.057395	.0051319	.0182134	66.07604
Stddev	.0049438	.010187	.025922	.0029869	.0011427	.19677
%RSD	6.356960	177.8827	.8478423	58.20239	6.273714	.2977933
#1	.0825095	.000207	3.052024	.0061415	.0195257	66.28530
#2	.0726444	-.017490	3.085582	.0074831	.0174389	65.89475
#3	.0781548	.000102	3.034579	.0017710	.0176755	66.04807

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.318293	.0046204	.0221179	166.2322	.1690801	.0803268
Stddev	.010643	.0000678	.0000505	.6930	.0044602	.0016666
%RSD	.4590711	1.466699	.2281333	.4169162	2.637925	2.074757
#1	2.327020	.0045665	.0220740	166.8299	.1686465	.0793242
#2	2.306437	.0046964	.0221730	165.4725	.1648525	.0822506
#3	2.321423	.0045982	.0221066	166.3941	.1737413	.0794056

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4903056	152.4782	8.314462	39.90196	.1996481	-.007093
Stddev	.0013454	.3411	.045158	.14252	.0014976	.000545
%RSD	.2743999	.2237051	.5431205	.3571879	.7500997	7.687067
#1	.4908755	152.8721	8.359872	39.86787	.1991701	-.006916
#2	.4887690	152.2816	8.269561	39.77957	.2013263	-.007705
#3	.4912722	152.2809	8.313954	40.05844	.1984479	-.006659

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.642060	.1824051	3.119481	10.50470	F 18.99908	.0743656
Stddev	.125766	.0011534	.047720	.07175	.12664	.0030953
%RSD	7.659028	.6323213	1.529747	.6830136	.6665524	4.162222
#1	1.739791	.1829271	3.139008	10.49785	18.96486	.0757024
#2	1.686218	.1810830	3.065094	10.43662	19.13932	.0765678
#3	1.500170	.1832052	3.154340	10.57962	18.89307	.0708266

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-16 Acquired: 12/03/2024 0:16:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0131337	5.272714	6.632695	.1569389	1.118941	.0687476
Stddev	.0003490	.032441	.060820	.0019257	.005342	.0005879
%RSD	2.656941	.6152589	.9169680	1.227017	.4774032	.8552199
#1	.0128663	5.252510	6.661428	.1551664	1.124674	.0681643
#2	.0135285	5.310134	6.562832	.1589878	1.114103	.0693401
#3	.0130064	5.255499	6.673825	.1566624	1.118046	.0687386

Elem	Sr4077
Units	ppm
Avg	.3526319
Stddev	.0012015
%RSD	.3407133
#1	.3538057
#2	.3514046
#3	.3526855

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1125.376	33551.65	6570.460	991.8517	1645.650
Stddev	.950	388.66	12.960	10.3883	10.252
%RSD	.0843803	1.158389	.1972469	1.047361	.6229669
#1	1126.351	33349.18	6555.914	985.1665	1649.969
#2	1124.454	33999.74	6580.780	1003.820	1633.945
#3	1125.322	33306.02	6574.684	986.569	1653.035

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-17 Acquired: 12/03/2024 0:21:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0726965	-.007812	2.933938	-.004429	.0092523	62.90189
Stddev	.0044248	.001435	.004255	.005921	.0017605	.31052
%RSD	6.086645	18.36314	.1450118	133.7057	19.02813	.4936596
#1	.0768164	-.008958	2.930066	-.011135	.0072543	62.74173
#2	.0680196	-.008276	2.933254	.000079	.0099265	62.70414
#3	.0732535	-.006203	2.938493	-.002230	.0105760	63.25979

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.202710	.0043562	.0227951	179.4720	.1485274	.0715873
Stddev	.004090	.0001536	.0001574	.1914	.0024660	.0003431
%RSD	.1856821	3.526834	.6905719	.1066227	1.660266	.4792767
#1	2.198095	.0044241	.0228254	179.4338	.1494012	.0713221
#2	2.204147	.0041804	.0229353	179.3026	.1504374	.0719748
#3	2.205888	.0044643	.0226248	179.6796	.1457435	.0714652

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4857711	131.8845	7.202456	34.40371	.1843061	-.005300
Stddev	.0020679	.6681	.012729	.06917	.0005311	.000784
%RSD	.4256884	.5065598	.1767374	.2010440	.2881519	14.79165
#1	.4875910	131.8359	7.203085	34.48042	.1837013	-.005425
#2	.4835225	131.2421	7.189424	34.34609	.1846964	-.004461
#3	.4861997	132.5756	7.214860	34.38462	.1845207	-.006014

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.410972	.1677796	3.354271	9.158986	F 38.73461	.0618461
Stddev	.062282	.0087149	.042550	.031372	.04625	.0012579
%RSD	2.583292	5.194272	1.268526	.3425312	.1193916	2.033873
#1	2.449367	.1592959	3.369558	9.177312	38.71533	.0621756
#2	2.339110	.1673341	3.387066	9.122761	38.78738	.0629064
#3	2.444438	.1767087	3.306190	9.176884	38.70113	.0604562

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-17 Acquired: 12/03/2024 0:21:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0077055	4.069943	6.903615	.1430787	1.080061	.0612241
Stddev	.0007039	.018172	.050709	.0013723	.004398	.0007627
%RSD	9.134481	.4464944	.7345312	.9591255	.4072359	1.245805
#1	.0083935	4.067575	6.933528	.1428510	1.079389	.0608036
#2	.0077361	4.089183	6.845066	.1445506	1.076038	.0607642
#3	.0069868	4.053071	6.932252	.1418344	1.084757	.0621045

Elem	Sr4077
Units	ppm
Avg	.3316178
Stddev	.0014372
%RSD	.4333987
#1	.3315707
#2	.3302047
#3	.3330780

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1103.612	33090.89	6488.360	974.0632	1640.083
Stddev	.690	349.62	39.869	11.6095	2.285
%RSD	.0625539	1.056537	.6144682	1.191861	.1393420
#1	1102.997	32944.75	6480.754	971.1731	1642.194
#2	1103.480	32838.06	6531.484	964.1718	1637.656
#3	1104.359	33489.87	6452.842	986.8447	1640.398

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-18 Acquired: 12/03/2024 0:25:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1099833	k -.011306	3.685805	-.000498	k .0083742	69.09031
Stddev	.0116803	.001299	.002508	.003844	.0037127	.03876
%RSD	10.62010	11.48618	.0680462	772.6688	44.33521	.0561044
#1	.1138284	-.010068	3.682971	.003690	.0077801	69.06307
#2	.1192564	k -.012657	3.687739	-.003866	k .0123482	69.13469
#3	.0968652	-.011193	3.686704	-.001317	.0049943	69.07317

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.757798	.0048233	.0264380	172.1086	s .1775600	.0830211
Stddev	.007560	.0001836	.0000752	.3212	.0117489	.0008247
%RSD	.2741290	3.806530	.2845515	.1866313	6.616867	.9933041
#1	2.760216	.0050309	.0264706	172.4075	.1656890	.0839462
#2	2.749325	.0047566	.0263520	171.7689	s .1891829	.0823630
#3	2.763853	.0046823	.0264915	172.1493	.1778080	.0827542

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.361937	158.6039	8.690333	37.67656	.1906778	s -.000866
Stddev	.002570	.3738	.008825	.04165	.0003690	.006379
%RSD	.1886949	.2356880	.1015495	.1105380	.1935040	736.3242
#1	1.363455	158.3341	8.690513	37.67959	.1910967	-.006409
#2	1.358969	159.0306	8.681418	37.63348	.1905357	s .006106
#3	1.363385	158.4471	8.699066	37.71661	.1904010	-.002295

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.431578	k .1914886	3.779949	9.640482	F 18.44108	k .0679682
Stddev	.347123	.0045482	.351127	.034285	.06921	.0029198
%RSD	24.24756	2.375200	9.289195	.3556330	.3753216	4.295820
#1	1.043793	.1874977	3.861283	9.667233	18.40372	.0671881
#2	1.537657	k .1964405	3.395292	9.652380	18.39858	k .0711988
#3	1.713284	.1905275	4.083271	9.601834	18.52095	.0655177

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-18 Acquired: 12/03/2024 0:25:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0077598	3.501917	6.369918	.2128028	1.056772	.0674177
Stddev	.0001703	.017100	.102666	.0035789	.001185	.0016284
%RSD	2.194711	.4883051	1.611734	1.681808	.1121323	2.415442
#1	.0075649	3.508264	6.430158	.2137174	1.056788	.0660554
#2	.0078346	3.482551	6.251375	.2088553	1.055579	.0692213
#3	.0078799	3.514937	6.428221	.2158356	1.057949	.0669763

Elem	Sr4077
Units	ppm
Avg	.3539369
Stddev	.0008473
%RSD	.2393865
#1	.3529740
#2	.3545683
#3	.3542684

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1125.348	^ *****	6602.539	1016.181	1645.207
Stddev	1.932	-----	23.104	80.228	1.485
%RSD	.1716389	-----	.3499296	7.895026	.0902744
#1	1123.120	33514.61	6583.603	995.354	1643.492
#2	1126.562	^ -----	6595.732	1104.769	1646.050
#3	1126.360	31768.10	6628.282	948.421	1646.079

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-19 Acquired: 12/03/2024 0:30:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1386760	-.006639	4.699990	-.009244	.0075082	85.03303
Stddev	.0061492	.000627	.118168	.008322	.0025276	.29559
%RSD	4.434240	9.450460	2.514209	90.02774	33.66487	.3476202
#1	.1356248	-.006588	4.712488	-.007827	.0054601	85.35547
#2	.1346490	-.006039	4.811413	-.001721	.0103331	84.77486
#3	.1457541	-.007291	4.576071	-.018184	.0067315	84.96876

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.050601	.0063632	.0260338	192.8019	.1864080	.1136812
Stddev	.004083	.0000458	.0006240	.1455	.0035989	.0032602
%RSD	.1338585	.7190025	2.397048	.0754578	1.930673	2.867829
#1	3.052488	.0063117	.0262250	192.6985	.1834027	.1132382
#2	3.045916	.0063789	.0265398	192.7388	.1903963	.1171402
#3	3.053400	.0063991	.0253365	192.9682	.1854252	.1106652

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.017820	195.1284	12.55775	41.86190	.2302669	-.011674
Stddev	.001634	.5645	.02043	.07005	.0058619	.000355
%RSD	.1604955	.2892881	.1627193	.1673473	2.545692	3.041086
#1	1.019614	195.7645	12.53611	41.92424	.2314740	-.011836
#2	1.017429	194.9336	12.57671	41.87536	.2354313	-.011267
#3	1.016418	194.6871	12.56042	41.78609	.2238954	-.011919

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.991586	.2340877	4.378762	13.25499	F 22.97868	.0905176
Stddev	.150770	.0053898	.038715	.02641	.55807	.0026107
%RSD	7.570326	2.302455	.8841629	.1992802	2.428657	2.884246
#1	2.128303	.2365878	4.349374	13.28453	23.14034	.0908809
#2	1.829885	.2279019	4.422630	13.23365	23.43809	.0877442
#3	2.016570	.2377735	4.364281	13.24678	22.35763	.0929277

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-19 Acquired: 12/03/2024 0:30:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0093473	4.267513	5.953349	.4126160	1.171432	.0911827
Stddev	.0007144	.105971	.021381	.0104573	.003016	.0009123
%RSD	7.643283	2.483192	.3591401	2.534396	.2574507	1.000543
#1	.0091694	4.274071	5.962809	.4147466	1.174689	.0906452
#2	.0101339	4.370053	5.968369	.4218440	1.168736	.0922361
#3	.0087386	4.158416	5.928870	.4012575	1.170870	.0906668

Elem	Sr4077
Units	ppm
Avg	.4320826
Stddev	.0003634
%RSD	.0841093
#1	.4323531
#2	.4322252
#3	.4316695

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1203.858	35414.52	7049.549	1051.025	1638.398
Stddev	16.193	278.57	18.055	6.224	32.740
%RSD	1.345078	.7865916	.2561157	.5922276	1.998317
#1	1199.500	35542.27	7029.408	1054.722	1633.917
#2	1190.290	35094.99	7054.956	1043.839	1608.129
#3	1221.784	35606.30	7064.283	1054.515	1673.148

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-01 Acquired: 12/03/2024 0:34:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0346716	-.004134	1.025206	-.001747	.0045559	42.36156	.6874732
Stddev	.0061006	.005591	.016374	.007808	.0017106	.50218	.0079054
%RSD	17.59531	135.2637	1.597096	446.8268	37.54740	1.185453	1.149927
#1	.0347500	-.005074	1.006846	.006058	.0064344	41.97263	.6824487
#2	.0285322	-.009194	1.030481	-.001742	.0041453	42.92849	.6965856
#3	.0407325	.001868	1.038293	-.009558	.0030879	42.18355	.6833852

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024481	.0082094	187.6277	.0915925	.0515497	.3457815	112.6351
Stddev	.0000711	.0003050	1.4886	.0007622	.0016402	.0042700	1.1787
%RSD	2.905394	3.715657	.7933586	.8321197	3.181715	1.234874	1.046447
#1	.0024559	.0078710	186.6564	.0907155	.0497225	.3472970	111.5169
#2	.0025150	.0082941	189.3415	.0919681	.0528947	.3490869	113.8662
#3	.0023734	.0084631	186.8853	.0920939	.0520318	.3409605	112.5223

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.884063	48.71117	.1544865	-.008323	1.726292	.1198263	1.798031
Stddev	.038331	.46340	.0028010	.000535	.126078	.0034073	.013685
%RSD	.7848125	.9513186	1.813070	6.430379	7.303391	2.843499	.7611236
#1	4.859294	48.22244	.1513115	-.008941	1.621485	.1162793	1.786353
#2	4.928215	49.14421	.1566079	-.007995	1.691190	.1201256	1.813090
#3	4.864681	48.76685	.1555400	-.008033	1.866201	.1230740	1.794649

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.148298	9.232324	.0400696	.0035020	3.599518	5.621620	.0316174
Stddev	.154339	.161324	.0019111	.0007254	.039814	.027331	.0002850
%RSD	2.997866	1.747380	4.769374	20.71481	1.106089	.4861837	.9012314
#1	5.030519	9.046044	.0409089	.0042710	3.555106	5.617084	.0314946
#2	5.323018	9.326010	.0414175	.0034052	3.632011	5.650935	.0314145
#3	5.091358	9.324917	.0378825	.0028299	3.611438	5.596840	.0319432

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-01 Acquired: 12/03/2024 0:34:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.117833	.0433227	.2751807
Stddev	.012816	.0009900	.0024858
%RSD	1.146493	2.285077	.9033473
#1	1.105770	.0443313	.2731662
#2	1.131288	.0423526	.2779587
#3	1.116440	.0432843	.2744171

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1095.110	32534.71	6367.362	968.1834	1650.605
Stddev	12.423	302.55	23.445	7.4117	26.325
%RSD	1.134407	.9299383	.3682128	.7655232	1.594876
#1	1109.105	32846.09	6369.438	974.4903	1681.002
#2	1090.838	32241.83	6342.948	960.0199	1635.187
#3	1085.386	32516.20	6389.700	970.0399	1635.627

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-02 Acquired: 12/03/2024 0:38:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0397504	-.004277	.8707902	-.004922	.0037027	46.11721
Stddev	.0107723	.004437	.0123433	.004812	.0009903	.15486
%RSD	27.09989	103.7257	1.417486	97.76590	26.74542	.3357889
#1	.0356186	-.007683	.8824312	-.006650	.0035617	46.22774
#2	.0519770	.000740	.8720916	-.008633	.0027905	45.94022
#3	.0316556	-.005889	.8578477	.000515	.0047560	46.18368

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7139891	.0025473	.0086910	216.6764	.0929315	.0569645
Stddev	.0011218	.0001382	.0001218	.0491	.0011673	.0005820
%RSD	.1571193	5.425543	1.401398	.0226380	1.256039	1.021769
#1	.7148266	.0024114	.0087401	216.6739	.0932307	.0576364
#2	.7127145	.0026877	.0087806	216.6286	.0939201	.0566426
#3	.7144260	.0025427	.0085524	216.7266	.0916438	.0566146

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2872699	112.2652	5.147501	50.17250	.1512738	-.008284
Stddev	.0005274	.2353	.004333	.12839	.0024336	.000218
%RSD	.1835958	.2096035	.0841733	.2558895	1.608762	2.634809
#1	.2874602	112.4268	5.152306	50.28932	.1536482	-.008032
#2	.2866738	111.9952	5.143890	50.03504	.1513883	-.008410
#3	.2876758	112.3735	5.146307	50.19315	.1487850	-.008409

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.617430	.1300425	1.455727	4.483266	F 10.07753	.0341035
Stddev	.298028	.0035138	.001428	.113141	.17948	.0027803
%RSD	18.42603	2.702032	.0980795	2.523622	1.780972	8.152494
#1	1.940587	.1334946	1.456287	4.586291	10.27315	.0319422
#2	1.353391	.1301628	1.454104	4.362182	10.03901	.0372400
#3	1.558313	.1264701	1.456791	4.501325	9.92045	.0331282

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-02 Acquired: 12/03/2024 0:38:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019173	2.547536	5.689489	.0319734	1.086484	.0507353
Stddev	.0005588	.048966	.007439	.0014229	.004704	.0017425
%RSD	29.14533	1.922095	.1307413	4.450150	.4329307	3.434582
#1	.0024565	2.601527	5.691454	.0309656	1.084742	.0491080
#2	.0019547	2.535080	5.681266	.0336010	1.082899	.0505239
#3	.0013407	2.506001	5.695748	.0313535	1.091810	.0525738

Elem	Sr4077
Units	ppm
Avg	.3341650
Stddev	.0009311
%RSD	.2786363
#1	.3352391
#2	.3335881
#3	.3336677

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1095.459	32812.63	6468.464	976.3710	1612.477
Stddev	8.861	134.66	14.569	1.9453	21.277
%RSD	.8088588	.4104022	.2252360	.1992426	1.319512
#1	1085.240	32681.06	6451.650	976.0750	1589.847
#2	1100.125	32806.64	6476.387	974.5906	1615.509
#3	1101.012	32950.19	6477.354	978.4474	1632.075

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCV076 Acquired: 12/03/2024 0:43:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV076 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.302503	5.109968	24.42609	4.916735	4.685676	393.3651
Stddev	.006845	.014674	.07395	.019152	.021364	4.9921
%RSD	.1290950	.2871689	.3027500	.3895338	.4559469	1.269065
#1	5.299227	5.123165	24.50525	4.937772	4.709062	395.9309
#2	5.297911	5.094165	24.41425	4.912125	4.667182	396.5525
#3	5.310371	5.112573	24.35878	4.900309	4.680784	387.6120

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.774930	.5167942	2.587987	396.8398	15.45162	2.463326
Stddev	.062457	.0016088	.007057	2.2811	.09565	.005520
%RSD	.6389504	.3113059	.2727019	.5748165	.6189982	.2240669
#1	9.783036	.5186507	2.596110	397.8772	15.56110	2.469320
#2	9.832939	.5159232	2.583361	398.4179	15.38428	2.462202
#3	9.708816	.5158087	2.584490	394.2244	15.40948	2.458454

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.63042	402.0204	14.42555	415.7420	2.431201	1.257277
Stddev	.09467	2.2643	.09780	2.1328	.007270	.010165
%RSD	.6470666	.5632356	.6779924	.5130198	.2990222	.8084977
#1	14.67485	403.9382	14.47839	417.5055	2.437269	1.268930
#2	14.69470	402.6005	14.48557	416.3490	2.433191	1.250233
#3	14.52171	399.5224	14.31269	413.3714	2.423144	1.252668

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	398.5150	2.484617	14.44309	150.1329	4.994894	F 4.436011
Stddev	2.3141	.015674	.21168	.8306	.026026	.014870
%RSD	.5806931	.6308565	1.465581	.5532132	.5210520	.3352018
#1	399.7065	2.488640	14.68685	150.3212	5.023105	4.450197
#2	399.9905	2.497888	14.30567	150.8533	4.989756	4.437296
#3	395.8478	2.467324	14.33675	149.2244	4.971820	4.420541

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCV076 Acquired: 12/03/2024 0:43:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV076 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.803364	4.934142	F 3.455857	4.950049	4.929488	4.780103
Stddev	.017160	.011813	.019832	.009536	.025277	.028288
%RSD	.3572479	.2394230	.5738652	.1926390	.5127809	.5917779
#1	4.823167	4.946307	3.472877	4.960982	4.946494	4.783270
#2	4.792871	4.922714	3.460615	4.943449	4.941529	4.806674
#3	4.794055	4.933405	3.434079	4.945716	4.900442	4.750366

Elem	Sr4077
Units	ppm
Avg	4.871384
Stddev	.010232
%RSD	.2100394
#1	4.882657
#2	4.862685
#3	4.868811

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	827.3836	26069.50	5476.604	680.0933	1366.449
Stddev	2.3597	158.54	20.419	9.5383	2.497
%RSD	.2851954	.6081261	.3728343	1.402495	.1827383
#1	824.7244	25888.14	5459.321	669.1191	1364.073
#2	828.1985	26181.72	5471.357	686.3891	1366.221
#3	829.2277	26138.65	5499.135	684.7718	1369.051

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCB076 Acquired: 12/03/2024 0:47:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB076 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039466	.0021075	-.002407	.0020662	.0028006	.0144428	.0016456
Stddev	.0052872	.0031429	.001923	.0037778	.0008373	.0069358	.0008904
%RSD	133.9689	149.1325	79.89741	182.8397	29.89803	48.02207	54.11039
#1	.0084857	.0053667	-.000197	.0008529	.0019662	.0210938	.0014592
#2	.0052129	-.000904	-.003703	-.000956	.0027948	.0072537	.0026144
#3	-.001859	.001860	-.003321	.006302	.0036408	.0149810	.0008631

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000321	-.000030	.0187564	.0017412	-.000086	-.000765	.0220249
Stddev	.0001376	.000197	.0096539	.0004711	.000283	.001424	.0143159
%RSD	429.0939	647.5600	51.47009	27.05421	328.5833	186.1856	64.99887
#1	-.000097	.000185	.0190287	.0014021	-.000400	-.002162	.0321797
#2	.000016	-.000201	.0282713	.0022791	.000148	.000685	.0282438
#3	.000177	-.000076	.0089692	.0015425	-.000006	-.000819	.0056512

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012040	-.021727	-.000119	.0010895	.1324171	.0032229	.0004833
Stddev	.0003110	.054068	.000362	.0002914	.0428860	.0011155	.0001838
%RSD	25.82964	248.8493	304.8454	26.74513	32.38706	34.61271	38.02385
#1	.0015631	-.084122	-.000517	.0010236	.1423928	.0038767	.0002724
#2	.0010295	.011342	.000190	.0014081	.0854224	.0038571	.0005680
#3	.0010196	.007599	-.000030	.0008367	.1694361	.0019348	.0006094

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.620960	-.000751	-.001301	-.000206	.0038476	-.000500	-.000487
Stddev	.168649	.002003	.001589	.000359	.0073218	.000165	.001006
%RSD	27.15939	266.7842	122.1886	174.6661	190.2941	32.95622	206.5335
#1	-.787050	.000218	-.000907	-.000616	.0068081	-.000454	-.001438
#2	-.625966	.000584	.000055	-.000054	.0092256	-.000682	.000566
#3	-.449864	-.003055	-.003049	.000053	-.004491	-.000362	-.000590

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCB076 Acquired: 12/03/2024 0:47:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB076 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0007102	-.011577	.0002689
Stddev	.0012032	.000775	.0000724
%RSD	169.4323	6.697812	26.94781
#1	-.000399	-.011899	.0002584
#2	.001989	-.010692	.0002022
#3	.000540	-.012140	.0003460

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1025.007	29927.62	5650.244	901.3272	1902.416
Stddev	2.412	70.32	47.743	1.9571	3.390
%RSD	.2353201	.2349779	.8449751	.2171369	.1782075
#1	1026.697	29875.23	5695.564	899.1613	1905.110
#2	1026.078	29900.07	5600.400	902.9687	1903.527
#3	1022.245	30007.54	5654.768	901.8517	1898.609

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-03 Acquired: 12/03/2024 0:52:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1328650	-.006685	1.121557	-.001613	.0051209	43.85088	.9502955
Stddev	.0114616	.007911	.004484	.006552	.0023617	2.06623	.0502092
%RSD	8.626499	118.3470	.3997594	406.1242	46.11824	4.711942	5.283531
#1	.1459914	-.011861	1.126566	-.009113	.0078257	46.23673	1.008153
#2	.1248386	-.010616	1.120187	.001274	.0040691	42.66866	.924583
#3	.1277650	.002422	1.117919	.003000	.0034679	42.64726	.918151

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026050	.0106212	469.3742	.0879998	.0754004	.2485012	136.0314
Stddev	.0001704	.0004337	23.9504	.0012920	.0005007	.0078403	5.9249
%RSD	6.539721	4.082882	5.102626	1.468131	.6641046	3.155042	4.355555
#1	.0024092	.0101304	496.9608	.0865214	.0748904	.2574913	142.8706
#2	.0026867	.0109526	457.2713	.0885659	.0758914	.2449304	132.4556
#3	.0027193	.0107806	453.8906	.0889120	.0754193	.2430819	132.7682

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.573495	185.0029	.1639765	-.002933	2.050321	.1229992	.9770610
Stddev	.388214	7.8800	.0011804	.000412	.327414	.0095345	.0070649
%RSD	5.125956	4.259410	.7198648	14.05509	15.96894	7.751651	.7230810
#1	8.019061	194.1017	.1627638	-.003118	2.410553	.1324957	.9698679
#2	7.393301	180.3922	.1640441	-.003220	1.969577	.1230747	.9773248
#3	7.308125	180.5149	.1651217	-.002460	1.770832	.1134272	.9839904

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.038080	8.695050	.0472203	.0012499	25.66791	6.162901	.0321035
Stddev	.477177	.023349	.0095058	.0003450	.03196	.237085	.0021847
%RSD	9.471410	.2685367	20.13084	27.59740	.1244980	3.846976	6.805071
#1	5.582318	8.670684	.0575847	.0012126	25.70176	6.435992	.0319348
#2	4.840476	8.697237	.0389083	.0009252	25.63827	6.042958	.0300081
#3	4.691447	8.717229	.0451678	.0016120	25.66371	6.009754	.0343676

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-03 Acquired: 12/03/2024 0:52:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.002243	.0512907	.3818823
Stddev	.049751	.0043652	.0189929
%RSD	4.964008	8.510705	4.973504
#1	1.059690	.0563164	.4037996
#2	.973852	.0484435	.3715991
#3	.973187	.0491121	.3702483

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1040.200	30975.27	6088.761	913.8158	1510.510
Stddev	2.119	27.83	223.011	4.4699	2.180
%RSD	.2036718	.0898415	3.662666	.4891449	.1443334
#1	1039.211	30975.99	5831.266	918.4413	1509.038
#2	1042.632	31002.74	6214.987	913.4864	1513.015
#3	1038.757	30947.09	6220.029	909.5198	1509.478

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-07 Acquired: 12/03/2024 0:56:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1303589	-.005611	3.562952	-.005857	.0051999	70.36103
Stddev	.0033948	.007373	.013786	.009046	.0032978	2.26632
%RSD	2.604161	131.4108	.3869206	154.4296	63.42092	3.220991
#1	.1266170	.001699	3.562630	-.016150	.0067515	72.49729
#2	.1312185	-.013046	3.549329	-.002251	.0014125	67.98389
#3	.1332412	-.005486	3.576895	.000828	.0074357	70.60192

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.300270	.0048756	.0182943	150.5925	.1536479	.0894073
Stddev	.076840	.0001782	.0001770	5.0507	.0038287	.0002243
%RSD	3.340464	3.655590	.9677536	3.353882	2.491844	.2508690
#1	2.373773	.0050637	.0181117	155.3738	.1579561	.0891509
#2	2.220480	.0047092	.0183062	145.3098	.1523528	.0895039
#3	2.306557	.0048537	.0184652	151.0938	.1506348	.0895670

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4934777	176.2050	13.97133	24.03692	.1646294	-.010582
Stddev	.0186046	5.6547	.46027	.83528	.0002746	.001195
%RSD	3.770098	3.209141	3.294360	3.475006	.1668010	11.29338
#1	.5100980	181.5634	14.39754	24.75145	.1646850	-.009653
#2	.4733797	170.2946	13.48326	23.11860	.1648719	-.010163
#3	.4969554	176.7568	14.03318	24.24071	.1643312	-.011930

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.968465	.1877404	1.984857	7.476966	F 14.47158	.0746446
Stddev	.256774	.0089467	.037635	.317070	.04399	.0054140
%RSD	13.04436	4.765446	1.896105	4.240623	.3039688	7.253010
#1	1.729079	.1939670	2.026787	7.721788	14.49046	.0783135
#2	1.936654	.1774881	1.973782	7.118801	14.42130	.0684266
#3	2.239662	.1917661	1.954002	7.590310	14.50298	.0771937

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-07 Acquired: 12/03/2024 0:56:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0037014	2.267075	5.336820	.2894811	1.235819	.0651446
Stddev	.0005044	.013226	.166831	.0036726	.040484	.0034908
%RSD	13.62687	.5833934	3.126036	1.268665	3.275908	5.358597
#1	.0035451	2.267959	5.507010	.2899642	1.274141	.0681627
#2	.0032937	2.279837	5.173565	.2855909	1.193473	.0613216
#3	.0042655	2.253429	5.329885	.2928882	1.239844	.0659494

Elem	Sr4077
Units	ppm
Avg	.4788400
Stddev	.0155956
%RSD	3.256944
#1	.4935441
#2	.4624844
#3	.4804915

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1144.006	33786.30	6816.442	1003.318	1657.744
Stddev	.342	664.45	173.372	15.504	3.573
%RSD	.0299164	1.966618	2.543444	1.545302	.2155227
#1	1144.179	33080.23	6648.407	987.084	1653.620
#2	1143.611	33879.34	6994.700	1004.898	1659.750
#3	1144.227	34399.32	6806.220	1017.971	1659.864

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-08 Acquired: 12/03/2024 1:01:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1109665	-.006960	2.609248	-.013967	.0026126	73.22200
Stddev	.0038632	.004013	.093211	.008317	.0013351	2.16266
%RSD	3.481396	57.65501	3.572342	59.54981	51.10233	2.953572
#1	.1120175	-.005200	2.704929	-.021654	.0028418	74.60288
#2	.1066866	-.004128	2.518720	-.005138	.0011777	74.33351
#3	.1141955	-.011552	2.604094	-.015108	.0038182	70.72962

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.728080	.0051598	.0211485	261.9147	.1340864	.1060992
Stddev	.052864	.0000697	.0012145	7.5258	.0007483	.0052240
%RSD	3.059088	1.349998	5.742583	2.873379	.5580514	4.923694
#1	1.750213	.0051916	.0223479	265.2151	.1348855	.1115001
#2	1.766280	.0052078	.0199195	267.2264	.1339712	.1010722
#3	1.667748	.0050799	.0211780	253.3026	.1334024	.1057253

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3983323	209.0135	16.88306	57.39991	.1932014	-.016226
Stddev	.0120499	5.7403	.49247	1.74483	.0078326	.000575
%RSD	3.025085	2.746398	2.916922	3.039783	4.054107	3.543413
#1	.4048186	213.1095	17.07872	58.71754	.2012224	-.016776
#2	.4057497	211.4788	17.24763	58.06107	.1855719	-.016271
#3	.3844287	202.4524	16.32283	55.42113	.1928098	-.015629

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.031163	.1953650	1.750983	9.179242	F 15.09557	.0661934
Stddev	.088921	.0104618	.020188	.337061	.57956	.0033646
%RSD	4.377855	5.355023	1.152971	3.671994	3.839298	5.083012
#1	1.965849	.2006423	1.772926	9.398573	15.71140	.0671783
#2	2.132432	.2021372	1.746828	9.348020	14.56081	.0689556
#3	1.995208	.1833156	1.733196	8.791133	15.01449	.0624462

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-08 Acquired: 12/03/2024 1:01:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040426	2.175354	6.100254	.2006918	1.216872	.0713502
Stddev	.0007132	.086916	.140862	.0069918	.037464	.0035987
%RSD	17.64182	3.995507	2.309112	3.483855	3.078749	5.043676
#1	.0033467	2.259713	6.200471	.2072711	1.239689	.0735825
#2	.0040093	2.086088	6.161095	.1933499	1.237294	.0732693
#3	.0047719	2.180260	5.939198	.2014543	1.173634	.0671987

Elem	Sr4077
Units	ppm
Avg	.4489239
Stddev	.0128777
%RSD	2.868567
#1	.4566484
#2	.4560654
#3	.4340578

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1196.728	35663.96	7151.201	1057.066	1584.079
Stddev	24.100	108.39	149.240	9.933	52.024
%RSD	2.013819	.3039204	2.086924	.9396682	3.284166
#1	1170.787	35539.57	7046.007	1045.648	1530.025
#2	1218.423	35738.18	7085.590	1063.711	1633.802
#3	1200.974	35714.12	7322.007	1061.840	1588.411

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-09 Acquired: 12/03/2024 1:05:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0680649	-.014256	1.573187	-.002422	.0063870	55.89869
Stddev	.0072272	.002088	.035860	.005078	.0030103	.13842
%RSD	10.61813	14.64866	2.279431	209.6208	47.13169	.2476266
#1	.0733380	-.014667	1.587100	-.004787	.0075402	56.05475
#2	.0710301	-.011992	1.532455	.003407	.0086502	55.79077
#3	.0598267	-.016108	1.600004	-.005886	.0029706	55.85055

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.059543	.0039950	.0133943	227.4110	.0902854	.0728234
Stddev	.002326	.0001246	.0006598	.1724	.0005508	.0014652
%RSD	.2195010	3.119421	4.925854	.0758135	.6100393	2.012012
#1	1.059882	.0041206	.0138501	227.3303	.0908455	.0726754
#2	1.061681	.0038714	.0126378	227.2938	.0902660	.0714378
#3	1.057067	.0039928	.0136952	227.6090	.0897445	.0743570

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2442279	156.2167	7.576408	40.31422	.1190764	-.015352
Stddev	.0015388	.4595	.007465	.18239	.0029324	.000491
%RSD	.6300550	.2941217	.0985334	.4524139	2.462613	3.195888
#1	.2450927	156.6682	7.570297	40.50942	.1200250	-.015764
#2	.2424513	155.7496	7.574198	40.14815	.1157871	-.014809
#3	.2451398	156.2324	7.584728	40.28509	.1214171	-.015483

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.297557	.1477300	1.177827	7.838887	F 17.65234	.0508699
Stddev	.218011	.0063305	.014626	.079610	.45803	.0015199
%RSD	9.488827	4.285170	1.241817	1.015578	2.594744	2.987894
#1	2.263136	.1525735	1.166479	7.930392	17.78754	.0526161
#2	2.098804	.1500496	1.194334	7.800742	17.14193	.0498447
#3	2.530731	.1405669	1.172668	7.785527	18.02756	.0501487

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-09 Acquired: 12/03/2024 1:05:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018284	1.513839	5.015397	.1097197	2.831976	.0836987
Stddev	.0003269	.035738	.017953	.0034169	.010051	.0009184
%RSD	17.88011	2.360755	.3579505	3.114232	.3549015	1.097240
#1	.0019745	1.511261	5.012358	.1111447	2.839375	.0846915
#2	.0014539	1.479460	4.999158	.1058209	2.820533	.0828796
#3	.0020568	1.550796	5.034675	.1121935	2.836019	.0835249

Elem	Sr4077
Units	ppm
Avg	.3116987
Stddev	.0002729
%RSD	.0875385
#1	.3120110
#2	.3115063
#3	.3115789

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1247.920	36679.21	7259.443	1087.430	1643.971
Stddev	17.470	331.56	18.369	15.204	35.801
%RSD	1.399909	.9039569	.2530321	1.398126	2.177698
#1	1237.308	36985.18	7258.517	1096.962	1630.614
#2	1268.083	36326.92	7278.257	1069.896	1684.530
#3	1238.369	36725.52	7241.555	1095.431	1616.770

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-10 Acquired: 12/03/2024 1:09:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1252102	-.009165	2.063843	-.012867	.0075962	71.54142
Stddev	.0026300	.003060	.054392	.002772	.0022002	.87828
%RSD	2.100470	33.38424	2.635475	21.54595	28.96408	1.227648
#1	.1224476	-.011181	2.028500	-.011882	.0100513	72.54717
#2	.1254992	-.010670	2.036552	-.015998	.0058028	71.15127
#3	.1276837	-.005645	2.126478	-.010722	.0069346	70.92580

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.517548	.0055958	.0204737	332.3823	.1597145	.1062985
Stddev	.028006	.0001250	.0009482	3.4903	.0018402	.0018975
%RSD	1.112432	2.234511	4.631430	1.050083	1.152179	1.785086
#1	2.548986	.0055197	.0196281	336.3848	.1592154	.1048186
#2	2.508393	.0055276	.0202942	330.7899	.1581754	.1056391
#3	2.495265	.0057401	.0214989	329.9722	.1617528	.1084377

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4142103	208.2868	19.35807	91.52446	.2228489	-.012826
Stddev	.0064447	2.8067	.16806	1.46434	.0063511	.000549
%RSD	1.555898	1.347519	.8681408	1.599943	2.849941	4.277079
#1	.4204835	211.5202	19.54907	93.20926	.2183588	-.012923
#2	.4076069	206.8623	19.29230	90.55808	.2200726	-.013320
#3	.4145405	206.4781	19.23286	90.80603	.2301155	-.012236

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.305896	.2075161	4.696976	13.87971	F 18.86539	.0904624
Stddev	.360355	.0039943	.030161	.26901	.49773	.0030907
%RSD	15.62754	1.924831	.6421349	1.938173	2.638322	3.416583
#1	2.168756	.2120339	4.714802	14.18999	18.54191	.0938426
#2	2.714686	.2044528	4.662152	13.71180	18.61572	.0877808
#3	2.034245	.2060616	4.713974	13.73734	19.43854	.0897637

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-10 Acquired: 12/03/2024 1:09:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0075620	6.118449	6.376278	.0975326	1.033404	.0770259
Stddev	.0002847	.170542	.045709	.0085384	.014261	.0015347
%RSD	3.764766	2.787348	.7168538	8.754436	1.379992	1.992406
#1	.0075464	5.991297	6.425926	.0954429	1.049800	.0786980
#2	.0072855	6.051798	6.335943	.0902331	1.026535	.0756816
#3	.0078542	6.312252	6.366964	.1069220	1.023878	.0766981

Elem	Sr4077
Units	ppm
Avg	.3708867
Stddev	.0043960
%RSD	1.185259
#1	.3759029
#2	.3690518
#3	.3677055

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1109.175	33574.29	6662.366	994.2765	1525.649
Stddev	18.651	162.55	55.682	6.3198	34.727
%RSD	1.681500	.4841560	.8357695	.6356226	2.276185
#1	1120.220	33456.43	6598.123	989.1803	1550.382
#2	1119.664	33759.73	6696.757	1001.348	1540.616
#3	1087.642	33506.72	6692.217	992.301	1485.949

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-11 Acquired: 12/03/2024 1:14:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1028713	-.012278	1.734549	-.011418	.0068726	65.96642
Stddev	.0104611	.003025	.004046	.002853	.0021494	1.13659
%RSD	10.16912	24.63989	.2332885	24.98622	31.27491	1.722989
#1	.0940704	-.011318	1.738480	-.014603	.0062298	65.35581
#2	.1001063	-.015667	1.734771	-.010556	.0051180	65.26563
#3	.1144371	-.009849	1.730396	-.009096	.0092701	67.27781

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.652108	.0053200	.0148237	302.4366	.1351099	.0836130
Stddev	.022001	.0001013	.0003668	3.9017	.0016379	.0006097
%RSD	1.331704	1.904928	2.474629	1.290096	1.212298	.7292150
#1	1.643357	.0053809	.0151519	300.6443	.1365484	.0842884
#2	1.635828	.0053761	.0144277	299.7531	.1333272	.0834473
#3	1.677138	.0052031	.0148916	306.9125	.1354541	.0831032

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3431885	179.0051	12.08616	82.83561	.1833531	-.010957
Stddev	.0071354	3.0583	.15589	1.48889	.0012561	.000253
%RSD	2.079138	1.708524	1.289809	1.797399	.6850789	2.305250
#1	.3363468	177.2735	12.02473	81.98138	.1841189	-.010669
#2	.3426335	177.2054	11.97034	81.97064	.1819034	-.011059
#3	.3505851	182.5363	12.26340	84.55482	.1840369	-.011142

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.991229	.1838867	3.673544	10.40535	F 12.61044	.0813809
Stddev	.111207	.0047452	.014506	.31403	.03183	.0018999
%RSD	5.584859	2.580526	.3948890	3.017929	.2524273	2.334587
#1	1.984385	.1784230	3.681165	10.24751	12.58020	.0793324
#2	2.105700	.1869767	3.656815	10.20155	12.60748	.0830850
#3	1.883602	.1862604	3.682650	10.76698	12.64365	.0817254

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-11 Acquired: 12/03/2024 1:14:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048037	4.804289	5.968530	.0799557	1.031206	.0650274
Stddev	.0005751	.018428	.081435	.0022246	.016582	.0018630
%RSD	11.97290	.3835702	1.364411	2.782305	1.608008	2.864889
#1	.0054440	4.799368	5.936571	.0814033	1.021867	.0632354
#2	.0046362	4.824677	5.907922	.0810697	1.021400	.0648927
#3	.0043309	4.788821	6.061097	.0773942	1.050352	.0669540

Elem	Sr4077
Units	ppm
Avg	.2998835
Stddev	.0039720
%RSD	1.324497
#1	.2975620
#2	.2976187
#3	.3044698

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1109.398	33028.71	6543.606	980.8646	1574.290
Stddev	1.603	127.92	85.847	2.9448	1.428
%RSD	.1445310	.3872967	1.311929	.3002251	.0907135
#1	1107.617	33050.38	6585.380	980.5656	1575.438
#2	1110.725	33144.41	6600.571	983.9475	1574.742
#3	1109.853	32891.34	6444.866	978.0807	1572.691

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-12 Acquired: 12/03/2024 1:18:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1491660	-.010040	2.520276	-.007550	.0056996	77.29342
Stddev	.0027868	.003612	.009167	.004498	.0040003	1.06734
%RSD	1.868237	35.97398	.3637268	59.58147	70.18554	1.380896
#1	.1523173	-.013223	2.526421	-.006998	.0083988	77.80459
#2	.1470266	-.006114	2.509739	-.012299	.0011037	76.06663
#3	.1481540	-.010784	2.524666	-.003353	.0075963	78.00906

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.576142	.0064637	.0195564	129.8593	.1678958	.1041532
Stddev	.036263	.0001770	.0001845	1.5445	.0118339	.0007180
%RSD	1.407647	2.737702	.9432195	1.189379	7.048359	.6893375
#1	2.598295	.0066032	.0193653	130.6503	.1787548	.1042922
#2	2.534293	.0062647	.0197334	128.0795	.1696498	.1033759
#3	2.595839	.0065233	.0195705	130.8482	.1552828	.1047915

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4386631	230.1751	16.69956	37.43629	.2365405	-.018904
Stddev	.0078499	2.7451	.21266	.44969	.0009185	.003763
%RSD	1.789497	1.192633	1.273459	1.201207	.3882893	19.90400
#1	.4397484	231.0171	16.82262	37.53521	.2373724	-.015449
#2	.4303270	227.1076	16.45399	36.94538	.2355549	-.018348
#3	.4459138	232.4006	16.82205	37.82828	.2366943	-.022913

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.594313	.2458445	3.126151	10.18380	F 14.81121	.0824276
Stddev	.249442	.0127064	.191859	.19711	.08438	.0012367
%RSD	9.614963	5.168469	6.137243	1.935556	.5697281	1.500326
#1	2.650057	.2398957	3.311903	10.27535	14.86986	.0823884
#2	2.811168	.2372036	3.137832	9.95756	14.71450	.0812109
#3	2.321715	.2604340	2.928717	10.31849	14.84927	.0836834

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-12 Acquired: 12/03/2024 1:18:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0075085	3.855162	5.906900	.1301660	1.399684	.0808437
Stddev	.0006369	.039353	.076853	.0022198	.016379	.0027897
%RSD	8.482003	1.020784	1.301077	1.705349	1.170161	3.450692
#1	.0082432	3.874095	5.986920	.1305325	1.409501	.0804030
#2	.0071703	3.809921	5.833663	.1277858	1.380776	.0783007
#3	.0071122	3.881470	5.900115	.1321797	1.408774	.0838276

Elem	Sr4077
Units	ppm
Avg	.3768400
Stddev	.0054753
%RSD	1.452937
#1	.3796221
#2	.3705323
#3	.3803656

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1175.087	34907.70	6899.187	1036.945	1648.420
Stddev	2.309	1695.74	69.202	55.126	6.822
%RSD	.1964773	4.857792	1.003039	5.316156	.4138397
#1	1172.601	33232.26	6863.661	984.712	1642.503
#2	1177.163	34867.78	6978.936	1031.556	1655.882
#3	1175.497	36623.04	6854.964	1094.568	1646.876

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-13 Acquired: 12/03/2024 1:22:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1819575	-.005237	2.323360	-.009632	.0070739	71.18330
Stddev	.0020681	.001016	.001721	.008598	.0021506	.50145
%RSD	1.136601	19.40777	.0740786	89.25972	30.40243	.7044542
#1	.1795708	-.004311	2.321422	-.019183	.0060143	70.89222
#2	.1830806	-.005076	2.323947	-.002511	.0056587	71.76233
#3	.1832210	-.006324	2.324711	-.007203	.0095487	70.89535

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.043583	.0066885	.0182559	112.1246	.1267407	.1157001
Stddev	.017609	.0001918	.0001508	.8956	.0005104	.0008127
%RSD	.5785470	2.867769	.8260034	.7987144	.4027382	.7024476
#1	3.034610	.0065321	.0181404	111.6640	.1273170	.1150844
#2	3.063871	.0066310	.0182008	113.1567	.1263454	.1166213
#3	3.032269	.0069025	.0184265	111.5531	.1265598	.1153945

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4608703	225.8729	24.27267	29.46083	.2197768	-.020254
Stddev	.0059698	1.7605	.18387	.14489	.0014684	.000406
%RSD	1.295330	.7794370	.7575335	.4918036	.6681507	2.003715
#1	.4603437	225.1833	24.15846	29.33340	.2214269	-.019909
#2	.4670860	227.8739	24.48478	29.61843	.2192896	-.020701
#3	.4551813	224.5616	24.17477	29.43065	.2186139	-.020151

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.692820	.2358401	2.067760	9.490804	F 16.27728	.0816289
Stddev	.314858	.0065408	.009646	.070971	.05321	.0010942
%RSD	11.69251	2.773402	.4664847	.7477895	.3268830	1.340443
#1	3.055029	.2341633	2.078594	9.475834	16.28415	.0825728
#2	2.538896	.2430560	2.060106	9.568066	16.32672	.0818843
#3	2.484533	.2303009	2.064579	9.428512	16.22097	.0804296

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-13 Acquired: 12/03/2024 1:22:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0098857	3.470848	6.585050	.0943780	1.034013	.0626039
Stddev	.0004532	.015304	.050296	.0011562	.006747	.0018399
%RSD	4.584015	.4409374	.7637912	1.225030	.6524665	2.938931
#1	.0100938	3.470306	6.561238	.0930987	1.029967	.0607263
#2	.0093658	3.486417	6.642830	.0946873	1.041801	.0644036
#3	.0101974	3.455823	6.551082	.0953481	1.030270	.0626817

Elem	Sr4077
Units	ppm
Avg	.2730515
Stddev	.0018665
%RSD	.6835814
#1	.2722353
#2	.2751872
#3	.2717322

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1211.317	36011.77	7025.236	1066.333	1664.071
Stddev	4.341	64.28	40.801	6.861	6.044
%RSD	.3583543	.1784913	.5807816	.6434580	.3632146
#1	1208.466	35937.90	7037.459	1058.515	1660.724
#2	1209.173	36042.39	6979.720	1071.354	1660.440
#3	1216.313	36055.01	7058.528	1069.131	1671.048

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-14 Acquired: 12/03/2024 1:27:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2363079	-.010275	1.607688	-.010850	.0077516	80.37342
Stddev	.0079255	.005910	.019296	.006549	.0004824	.23373
%RSD	3.353889	57.51689	1.200245	60.35839	6.223906	.2908094
#1	.2309623	-.007617	1.629730	-.018020	.0075537	80.60877
#2	.2325480	-.017048	1.599487	-.009344	.0083016	80.37015
#3	.2454136	-.006162	1.593847	-.005185	.0073996	80.14133

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.224709	.0068390	.0239775	172.2242	.1261694	.1528444
Stddev	.002796	.0002088	.0006077	.0960	.0003776	.0011649
%RSD	.0867030	3.053478	2.534503	.0557561	.2992485	.7621595
#1	3.226740	.0070801	.0245940	172.2362	.1258436	.1537066
#2	3.221520	.0067230	.0239595	172.1227	.1260815	.1533076
#3	3.225867	.0067139	.0233789	172.3136	.1265832	.1515192

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4484587	301.5070	27.69535	31.93286	.2436374	-.028457
Stddev	.0049343	1.1042	.03454	.10051	.0031619	.000311
%RSD	1.100279	.3662200	.1247090	.3147575	1.297795	1.093244
#1	.4440277	302.4943	27.65878	31.98470	.2472623	-.028814
#2	.4537761	301.7122	27.69985	31.81701	.2414472	-.028315
#3	.4475723	300.3147	27.72742	31.99687	.2422027	-.028242

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.361947	.2522377	1.495157	10.69307	F 22.83669	.0940598
Stddev	.052444	.0029081	.006125	.08284	.22587	.0030014
%RSD	1.559938	1.152901	.4096776	.7747325	.9890644	3.190902
#1	3.415118	.2490009	1.501404	10.78859	23.09749	.0953898
#2	3.360462	.2530820	1.494908	10.64080	22.70424	.0906233
#3	3.310261	.2546301	1.489161	10.64982	22.70834	.0961664

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-14 Acquired: 12/03/2024 1:27:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0092320	4.241526	5.930571	.0598641	.9105245	.0690010
Stddev	.0005191	.055910	.018816	.0019765	.0039602	.0014022
%RSD	5.622452	1.318160	.3172795	3.301596	.4349353	2.032120
#1	.0087654	4.305688	5.951388	.0576969	.9142149	.0706200
#2	.0091395	4.215636	5.914774	.0615672	.9110180	.0681743
#3	.0097911	4.203253	5.925549	.0603283	.9063408	.0682088

Elem	Sr4077
Units	ppm
Avg	.2849828
Stddev	.0008446
%RSD	.2963556
#1	.2848867
#2	.2858713
#3	.2841904

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1284.363	38418.90	7613.020	1139.108	1601.309
Stddev	9.130	21.67	33.274	5.052	17.004
%RSD	.7108824	.0564173	.4370663	.4435368	1.061893
#1	1274.530	38405.06	7576.804	1134.394	1581.675
#2	1285.987	38407.76	7620.017	1138.487	1611.034
#3	1292.573	38443.88	7642.239	1144.442	1611.219

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-15 Acquired: 12/03/2024 1:31:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1450821	-.009506	.4820495	-.012392	.0047536	58.44911
Stddev	.0057390	.001774	.0090820	.000573	.0045395	.21905
%RSD	3.955675	18.65756	1.884046	4.624939	95.49609	.3747711
#1	.1516771	-.010472	.4918627	-.012714	.0076449	58.66083
#2	.1412229	-.007459	.4803459	-.011731	.0070945	58.22340
#3	.1423464	-.010587	.4739399	-.012732	-.000479	58.46310

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.646115	.0046986	.0162737	164.8943	.0974842	.1156911
Stddev	.008151	.0001162	.0007992	.7398	.0006342	.0019688
%RSD	.3080421	2.473910	4.910944	.4486753	.6505922	1.701786
#1	2.653992	.0046029	.0165099	165.6006	.0975415	.1171305
#2	2.637715	.0048279	.0169282	164.1250	.0980879	.1164952
#3	2.646639	.0046648	.0153831	164.9574	.0968233	.1134475

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2321661	247.8673	27.04942	41.58255	.1786823	-.022573
Stddev	.0021409	.8942	.14804	.22655	.0030063	.000260
%RSD	.9221388	.3607459	.5473016	.5448245	1.682492	1.149850
#1	.2321495	248.8771	27.19521	41.80083	.1790890	-.022830
#2	.2300335	247.1757	26.89923	41.34855	.1814645	-.022579
#3	.2343152	247.5493	27.05381	41.59827	.1754933	-.022311

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.612959	.2215022	.8740791	7.644039	F 14.29620	.0825144
Stddev	.132257	.0013424	.0018680	.111659	.29456	.0009549
%RSD	5.061594	.6060216	.2137134	1.460727	2.060427	1.157231
#1	2.465054	.2221346	.8751954	7.630497	14.47868	.0832881
#2	2.653972	.2224115	.8751192	7.539769	14.45354	.0814472
#3	2.719851	.2199604	.8719225	7.761851	13.95638	.0828080

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-15 Acquired: 12/03/2024 1:31:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030340	2.030443	6.608325	.0547332	.6270478	.0502266
Stddev	.0001727	.051793	.025600	.0028563	.0033862	.0016877
%RSD	5.692583	2.550802	.3873973	5.218555	.5400143	3.360207
#1	.0030223	2.048759	6.637694	.0561190	.6302991	.0502730
#2	.0032122	2.070589	6.596554	.0566322	.6235413	.0485162
#3	.0028674	1.971981	6.590728	.0514484	.6273031	.0518907

Elem	Sr4077
Units	ppm
Avg	.2112909
Stddev	.0010876
%RSD	.5147459
#1	.2124552
#2	.2103011
#3	.2111164

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1220.787	36124.11	7090.235	1063.244	1649.751
Stddev	12.286	62.95	37.700	2.323	31.891
%RSD	1.006416	.1742489	.5317208	.2184902	1.933062
#1	1213.352	36075.01	7047.675	1060.788	1632.674
#2	1214.042	36195.07	7119.440	1063.537	1630.035
#3	1234.969	36102.25	7103.589	1065.406	1686.543

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-16 Acquired: 12/03/2024 1:36:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHL8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1380412	-.013230	4.083701	-.000747	.0089734	82.53401
Stddev	.0121397	.000581	.007946	.010714	.0035868	1.93257
%RSD	8.794231	4.388503	.1945903	1433.725	39.97137	2.341550
#1	.1310169	-.013588	4.091663	.003587	.0060454	84.47531
#2	.1520588	-.013542	4.083670	-.012950	.0129742	80.61028
#3	.1310477	-.012560	4.075770	.007121	.0079008	82.51643

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.072256	.0060976	.0223487	67.26786	.1833802	.1389233
Stddev	.047974	.0000957	.0001378	1.50248	.0020966	.0014650
%RSD	2.315084	1.569847	.6166248	2.233583	1.143323	1.054527
#1	2.123055	.0060620	.0222327	68.80502	.1825583	.1399322
#2	2.027722	.0062060	.0225010	65.80263	.1857633	.1372429
#3	2.065992	.0060248	.0223124	67.19594	.1818191	.1395946

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5159935	249.0069	13.73223	24.85552	.2556038	-.021377
Stddev	.0147926	5.7193	.29949	.50436	.0006344	.000428
%RSD	2.866810	2.296860	2.180930	2.029180	.2481783	2.001282
#1	.5308134	254.5720	14.03424	25.36120	.2563099	-.021749
#2	.5012284	243.1449	13.43532	24.35248	.2554196	-.020910
#3	.5159386	249.3039	13.72713	24.85287	.2550820	-.021473

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.928707	.2402708	3.166956	9.833396	F 15.28929	.0820381
Stddev	.419576	.0117929	.018289	.361243	.06514	.0027330
%RSD	21.75427	4.908149	.5774950	3.673636	.4260343	3.331358
#1	1.446245	.2480222	3.188073	10.14613	15.36450	.0841608
#2	2.208239	.2266993	3.156236	9.43798	15.25291	.0789544
#3	2.131637	.2460910	3.156559	9.91609	15.25048	.0829992

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-16 Acquired: 12/03/2024 1:36:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHL8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0407497	5.289073	7.042734	.1531014	1.649705	.0824879
Stddev	.0001241	.023985	.112536	.0039084	.041644	.0028678
%RSD	.3045232	.4534783	1.597898	2.552792	2.524308	3.476618
#1	.0408923	5.316767	7.158207	.1539857	1.689818	.0847453
#2	.0406910	5.275451	6.933386	.1488267	1.606683	.0792610
#3	.0406659	5.275002	7.036609	.1564919	1.652614	.0834575

Elem	Sr4077
Units	ppm
Avg	.2221476
Stddev	.0052431
%RSD	2.360166
#1	.2270715
#2	.2166350
#3	.2227363

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1180.196	35118.38	6780.736	1043.854	1690.443
Stddev	5.174	81.24	126.981	6.525	6.751
%RSD	.4384266	.2313189	1.872677	.6251292	.3993444
#1	1174.276	35050.74	6650.199	1036.321	1683.241
#2	1182.459	35095.90	6903.835	1047.484	1691.462
#3	1183.854	35208.48	6788.175	1047.758	1696.627

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-17 Acquired: 12/03/2024 1:40:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHL9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1625224	-.011334	4.673017	-.007425	.0046496	82.36802
Stddev	.0071468	.000663	.025145	.007671	.0042345	.69771
%RSD	4.397438	5.846959	.5380997	103.3114	91.07185	.8470679
#1	.1700425	-.010751	4.657278	.001264	-.000066	82.76530
#2	.1558191	-.011197	4.659755	-.013260	.005888	82.77636
#3	.1617056	-.012055	4.702017	-.010279	.008127	81.56239

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.055897	.0060733	.0218344	101.9959	.1882465	.1105601
Stddev	.016670	.0002006	.0001412	.6996	.0005765	.0012264
%RSD	.8108401	3.303446	.6466857	.6858994	.3062369	1.109278
#1	2.064902	.0061055	.0217115	102.1005	.1880692	.1099035
#2	2.066128	.0058585	.0219886	102.6373	.1888908	.1098018
#3	2.036661	.0062559	.0218030	101.2499	.1877795	.1119751

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5397484	195.8316	12.90215	41.36457	.2222133	-.015843
Stddev	.0023663	1.3773	.08605	.24935	.0008787	.000267
%RSD	.4384159	.7033023	.6669516	.6028037	.3954480	1.686820
#1	.5411428	196.5184	12.93942	41.41331	.2226708	-.015660
#2	.5410862	196.7304	12.96328	41.58595	.2212002	-.016150
#3	.5370162	194.2459	12.80375	41.09445	.2227688	-.015720

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.983515	.2312058	3.265359	8.535210	F 14.11747	.0635073
Stddev	.314365	.0003373	.015415	.040713	.04493	.0019186
%RSD	15.84887	.1458818	.4720757	.4769995	.3182493	3.021028
#1	2.339705	.2315793	3.282292	8.577187	14.13900	.0640271
#2	1.744826	.2311146	3.252142	8.532552	14.06583	.0613823
#3	1.866013	.2309234	3.261642	8.495892	14.14759	.0651123

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-17 Acquired: 12/03/2024 1:40:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHL9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0070433	3.593192	6.952276	.1432259	1.624841	.0864089
Stddev	.0006373	.003187	.020113	.0023816	.018207	.0018715
%RSD	9.048524	.0886938	.2893072	1.662812	1.120560	2.165806
#1	.0075397	3.589608	6.929185	.1415817	1.633858	.0852949
#2	.0072656	3.595708	6.961662	.1459571	1.636780	.0885695
#3	.0063246	3.594260	6.965980	.1421390	1.603885	.0853624

Elem	Sr4077
Units	ppm
Avg	.2287391
Stddev	.0020306
%RSD	.8877491
#1	.2299266
#2	.2298962
#3	.2263944

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1168.412	34804.94	6803.643	1028.893	1666.475
Stddev	1.498	97.78	29.349	5.312	3.491
%RSD	.1282203	.2809242	.4313677	.5163040	.2094831
#1	1167.265	34705.69	6817.827	1023.385	1667.725
#2	1167.865	34807.96	6769.896	1029.309	1669.169
#3	1170.107	34901.17	6823.205	1033.985	1662.531

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-18 Acquired: 12/03/2024 1:44:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2182807	-.009223	4.433864	-.013711	.0103302	80.80506
Stddev	.0088094	.005228	.025534	.004938	.0034768	4.81587
%RSD	4.035805	56.68374	.5758847	36.01203	33.65700	5.959863
#1	.2081928	-.005697	4.447661	-.009958	.0084489	83.86498
#2	.2244560	-.006743	4.404400	-.011871	.0143423	83.29633
#3	.2221934	-.015230	4.449532	-.019304	.0081993	75.25387

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.446416	.0062770	.0326680	93.60843	.1679551	.1235217
Stddev	.141993	.0001582	.0006770	5.48627	.0021067	.0006413
%RSD	5.804110	2.520931	2.072394	5.860875	1.254333	.5191708
#1	2.536604	.0062635	.0327001	97.09827	.1697720	.1242158
#2	2.519904	.0064415	.0319755	96.44226	.1656458	.1229512
#3	2.282741	.0061259	.0333284	87.28476	.1684476	.1233981

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5506475	241.9767	13.77304	25.94295	.2283114	-.017902
Stddev	.0299287	14.2400	.80431	1.37500	.0018096	.001169
%RSD	5.435178	5.884875	5.839768	5.300072	.7926007	6.527734
#1	.5695439	251.0967	14.25913	26.87161	.2298712	-.017823
#2	.5662577	249.2658	14.21535	26.59388	.2263274	-.019108
#3	.5161410	225.5678	12.84465	24.36336	.2287356	-.016775

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.231547	.2336283	3.672269	8.233457	F 15.22641	.0642085
Stddev	.084129	.0094810	.034002	.811306	.09676	.0055824
%RSD	3.770008	4.058148	.9259058	9.853771	.6354900	8.694192
#1	2.328619	.2373833	3.710183	8.800102	15.31341	.0628356
#2	2.186246	.2406566	3.662145	8.596200	15.12220	.0703493
#3	2.179774	.2228449	3.644479	7.304067	15.24363	.0594406

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-18 Acquired: 12/03/2024 1:44:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0087283	3.157705	6.054409	.1594811	1.480436	.0822279
Stddev	.0005426	.014370	.291254	.0048925	.083535	.0070335
%RSD	6.216099	.4550817	4.810610	3.067786	5.642585	8.553703
#1	.0086631	3.167135	6.243752	.1616530	1.533261	.0866906
#2	.0082214	3.141166	6.200446	.1538786	1.523918	.0858732
#3	.0093006	3.164813	5.719028	.1629116	1.384129	.0741200

Elem	Sr4077
Units	ppm
Avg	.3301150
Stddev	.0194724
%RSD	5.898662
#1	.3421428
#2	.3405532
#3	.3076490

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1180.625	34939.51	7066.939	1036.478	1680.004
Stddev	6.631	311.08	336.751	8.634	10.652
%RSD	.5616744	.8903417	4.765155	.8330509	.6340444
#1	1174.890	34581.98	6847.403	1026.900	1671.606
#2	1187.886	35088.32	6898.761	1038.871	1691.986
#3	1179.099	35148.24	7454.653	1043.664	1676.420

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-19 Acquired: 12/03/2024 1:49:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1872681	-.008607	2.506981	-.006375	.0090961	96.25042
Stddev	.0020015	.003180	.005925	.012022	.0020668	2.58853
%RSD	1.068815	36.94754	.2363375	188.5729	22.72193	2.689372
#1	.1892173	-.004938	2.513429	-.020100	.0113884	99.23350
#2	.1852180	-.010317	2.505738	.002288	.0073748	94.59629
#3	.1873690	-.010566	2.501777	-.001314	.0085252	94.92149

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.748073	.0065067	.0222485	84.17361	.1590687	.1337740
Stddev	.051656	.0001841	.0004399	2.36300	.0116976	.0004492
%RSD	2.955050	2.828997	1.977128	2.807291	7.353829	.3357867
#1	1.807616	.0066371	.0217566	86.89284	.1605550	.1341929
#2	1.715247	.0062961	.0226041	82.61875	.1466989	.1332996
#3	1.721355	.0065869	.0223849	83.00925	.1699522	.1338293

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4150767	245.7002	16.39235	25.72647	.2083180	-.022624
Stddev	.0088524	6.4914	.44028	.83760	.0005636	.003842
%RSD	2.132703	2.641987	2.685879	3.255810	.2705409	16.98387
#1	.4252985	253.1898	16.89885	26.69155	.2086472	-.022424
#2	.4099600	241.6964	16.10118	25.18879	.2086395	-.026563
#3	.4099716	242.2144	16.17703	25.29906	.2076672	-.018886

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.714159	.2665243	2.373620	8.687883	F 13.69766	.0626756
Stddev	.280756	.0088823	.145116	.362704	.01954	.0046150
%RSD	16.37864	3.332637	6.113688	4.174827	.1426778	7.363294
#1	1.429361	.2766518	2.400021	9.091724	13.69109	.0678613
#2	1.990690	.2600573	2.217117	8.582083	13.68224	.0611456
#3	1.722426	.2628637	2.503724	8.389843	13.71964	.0590199

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-19 Acquired: 12/03/2024 1:49:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0070307	2.408025	5.497000	.1472372	1.539590	.0794983
Stddev	.0001094	.011167	.152785	.0024839	.040225	.0039232
%RSD	1.556663	.4637556	2.779418	1.687022	2.612698	4.934998
#1	.0071516	2.395779	5.659687	.1499902	1.585984	.0840003
#2	.0070019	2.410650	5.356557	.1451637	1.514472	.0776844
#3	.0069385	2.417646	5.474755	.1465578	1.518312	.0768103

Elem	Sr4077
Units	ppm
Avg	.2702389
Stddev	.0077032
%RSD	2.850521
#1	.2790897
#2	.2650473
#3	.2665796

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1210.875	36381.02	6902.819	1079.882	1685.687
Stddev	.625	1880.73	158.809	54.282	.299
%RSD	.0515820	5.169541	2.300638	5.026627	.0177276
#1	1210.567	35916.41	6720.170	1068.334	1685.975
#2	1210.465	38450.51	7008.279	1139.008	1685.707
#3	1211.594	34776.14	6980.009	1032.303	1685.378

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-20 Acquired: 12/03/2024 1:53:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1536998	-.011380	2.812581	-.007366	.0048795	59.77473
Stddev	.0115542	.003903	.083012	.003160	.0020652	5.38641
%RSD	7.517359	34.29563	2.951460	42.90440	42.32375	9.011190
#1	.1474408	-.010450	2.731785	-.004540	.0028255	53.96104
#2	.1466255	-.008027	2.808314	-.010778	.0069557	64.59580
#3	.1670331	-.015664	2.897645	-.006780	.0048572	60.76734

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.515641	.0043129	.0132763	346.7660	.1327064	.0877229
Stddev	.132617	.0003177	.0007834	30.4706	.0013374	.0032567
%RSD	8.749910	7.365564	5.900450	8.787082	1.007793	3.712488
#1	1.372691	.0039477	.0135100	314.0601	.1342094	.0840826
#2	1.634668	.0045252	.0124027	374.3529	.1322621	.0887263
#3	1.539564	.0044659	.0139162	351.8850	.1316477	.0903598

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3643137	168.9699	13.73920	26.81096	.1343660	-.008547
Stddev	.0312472	15.0597	1.20461	2.45987	.0040896	.001552
%RSD	8.577001	8.912681	8.767720	9.174853	3.043649	18.16300
#1	.3311129	152.5975	12.44956	24.18580	.1297915	-.006855
#2	.3931479	182.2310	14.83537	29.06287	.1356381	-.009906
#3	.3686803	172.0811	13.93268	27.18421	.1376684	-.008881

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.833370	.1700307	1.828092	6.871126	F 10.98785	.0573438
Stddev	.194464	.0193639	.005284	.887748	.32200	.0073037
%RSD	10.60693	11.38848	.2890572	12.91997	2.930474	12.73675
#1	2.057887	.1504663	1.828848	5.961523	10.66277	.0493738
#2	1.724341	.1891877	1.832958	7.735271	10.99412	.0637171
#3	1.717881	.1704379	1.822471	6.916585	11.30667	.0589405

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-20 Acquired: 12/03/2024 1:53:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0037366	2.430438	6.398784	.1937175	1.313107	.0792044
Stddev	.0005209	.086502	.441653	.0048495	.115861	.0112128
%RSD	13.94131	3.559109	6.902136	2.503367	8.823400	14.15672
#1	.0033540	2.345776	5.920491	.1892002	1.186371	.0683215
#2	.0043298	2.426866	6.791176	.1931104	1.413586	.0907202
#3	.0035260	2.518670	6.484684	.1988420	1.339363	.0785716

Elem	Sr4077
Units	ppm
Avg	.7125433
Stddev	.0628790
%RSD	8.824588
#1	.6448203
#2	.7690756
#3	.7237340

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1102.478	33021.06	6652.076	978.0413	1573.933
Stddev	23.339	10.66	472.015	1.8627	43.226
%RSD	2.116929	.0322736	7.095754	.1904505	2.746382
#1	1125.145	33030.76	7171.383	979.2789	1615.916
#2	1103.770	33009.65	6249.110	975.8991	1576.323
#3	1078.521	33022.78	6535.736	978.9461	1529.562

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-21 Acquired: 12/03/2024 1:57:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1135493	-.007027	.9410355	-.007365	.0035687	86.88345
Stddev	.0095416	.004007	.0155551	.004740	.0031514	.34898
%RSD	8.403065	57.01542	1.652976	64.35942	88.30840	.4016676
#1	.1027843	-.002669	.9280128	-.011073	.0059194	86.48283
#2	.1209636	-.007860	.9582598	-.002024	.0047989	87.12138
#3	.1169001	-.010552	.9368339	-.008997	-.000012	87.04615

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.280901	.0058806	.0128060	40.85769	.1168447	.1114419
Stddev	.005539	.0001409	.0003236	.12733	.0006753	.0008324
%RSD	.4323977	2.396261	2.526751	.3116458	.5779559	.7469283
#1	1.274595	.0057202	.0126501	40.71157	.1167979	.1106912
#2	1.283127	.0059843	.0131780	40.91665	.1161940	.1123371
#3	1.284980	.0059374	.0125899	40.94485	.1175422	.1112974

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2386803	217.8899	17.00320	19.45450	.1510594	-.022965
Stddev	.0034250	.6444	.05757	.09773	.0020423	.000189
%RSD	1.434959	.2957365	.3385878	.5023615	1.351993	.8238888
#1	.2425139	217.2366	16.93972	19.34269	.1493796	-.022786
#2	.2359220	218.5250	17.01784	19.49715	.1533327	-.022944
#3	.2376050	217.9079	17.05204	19.52365	.1504658	-.023163

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.733692	.2297718	.8274815	6.094195	F 11.32513	.0504712
Stddev	.176392	.0054040	.0032372	.105048	.17197	.0028275
%RSD	10.17438	2.351883	.3912105	1.723742	1.518488	5.602257
#1	1.934921	.2300377	.8301513	5.975735	11.17936	.0528552
#2	1.660362	.2242397	.8238809	6.130826	11.51479	.0512112
#3	1.605793	.2350378	.8284125	6.176023	11.28124	.0473473

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-21 Acquired: 12/03/2024 1:57:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034126	1.581058	5.893025	.1767632	1.660769	.0631899
Stddev	.0005597	.030734	.004807	.0035906	.008757	.0011992
%RSD	16.40146	1.943895	.0815669	2.031296	.5272859	1.897828
#1	.0036396	1.550515	5.887564	.1742569	1.650774	.0618183
#2	.0038231	1.611980	5.894901	.1808766	1.667095	.0637103
#3	.0027750	1.580681	5.896612	.1751561	1.664436	.0640409

Elem	Sr4077
Units	ppm
Avg	.2018976
Stddev	.0007490
%RSD	.3709859
#1	.2010337
#2	.2023647
#3	.2022945

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1227.845	36335.12	6999.452	1083.434	1737.045
Stddev	9.549	61.98	10.678	3.153	20.913
%RSD	.7777201	.1705831	.1525523	.2909871	1.203947
#1	1237.432	36263.55	7008.957	1082.459	1755.712
#2	1218.334	36370.32	7001.501	1086.959	1714.444
#3	1227.768	36371.48	6987.898	1080.884	1740.978

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-22 Acquired: 12/03/2024 2:02:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	s .0739405	s .0032587	s 1.410641	k .0046594	k .0049755	72.60707
Stddev	.0758866	.0210056	1.087358	.0130931	.0045551	.37537
%RSD	102.6320	644.5944	77.08252	281.0025	91.54915	.5169911
#1	.1143598	-.011131	2.077186	.0019812	.0061740	72.39483
#2	.1210622	-.006456	1.998854	-.006888	.0088116	73.04049
#3	s -.013600	s .027363	s .155883	k .018885	k -.000059	72.38591

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.035810	k .0054682	s .0102116	406.2155	k .1546135	s .0682557
Stddev	.011674	.0005317	.0145396	2.5844	.0048261	.0541733
%RSD	.5734552	9.723040	142.3835	.6362083	3.121419	79.36815
#1	2.029200	.0056945	.0191864	404.8588	.1507263	.1014795
#2	2.049289	.0058493	.0180119	409.1957	.1600153	.0975445
#3	2.028939	k .0048608	s -.006564	404.5920	k .1530990	s .0057431

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k .4157253	198.9695	k 15.75274	107.2559	s .1438789	k -.008633
Stddev	.0058948	1.0928	.10602	.7055	.1129305	.001917
%RSD	1.417960	.5492162	.6730255	.6577962	78.48996	22.20976
#1	.4089449	198.6007	15.68971	106.9698	.2128127	-.010709
#2	.4185967	200.1990	15.87514	108.0595	.2052733	-.006929
#3	k .4196342	198.1088	k 15.69336	106.7383	s .0135507	k -.008261

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.451699	k .2025851	k 4.893425	14.14285	sF 13.56203	k .0955230
Stddev	.148922	.0017718	.189012	.15138	10.80563	.0019693
%RSD	6.074230	.8745977	3.862577	1.070394	79.67559	2.061611
#1	2.365214	.2045125	4.782732	14.06952	20.20221	.0974567
#2	2.623658	.2010272	5.111670	14.31693	19.39031	.0935199
#3	2.366225	k .2022156	k 4.785873	14.04209	s 1.09357	k .0955924

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-22 Acquired: 12/03/2024 2:02:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033282	s 4.452127	k 7.854262	s .0541962	k 1.013409	.0787806
Stddev	.0027715	3.577244	.131032	.0454871	.005169	.0023428
%RSD	83.27370	80.34911	1.668287	83.93030	.5100853	2.973880
#1	.0047982	6.678239	7.807154	.0832990	1.012954	.0762673
#2	.0050549	6.352374	8.002335	.0775110	1.018791	.0809041
#3	.0001314	s .325768	k 7.753298	s .0017787	k 1.008483	.0791702

Elem	Sr4077
Units	ppm
Avg	.4204046
Stddev	.0032192
%RSD	.7657471
#1	.4177863
#2	.4239989
#3	.4194286

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1807.248	32749.91	6737.514	972.5427	^ *****
Stddev	1163.333	1038.69	60.931	31.5231	-----
%RSD	64.37037	3.171583	.9043520	3.241308	-----
#1	1124.250	33343.28	6748.075	989.5833	1526.486
#2	1147.011	31550.56	6671.993	936.1670	1556.552
#3	3150.485	33355.90	6792.474	991.8776	^ -----

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-01 Acquired: 12/03/2024 2:06:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1033413	-.007094	2.788846	-.003138	.0123476	52.20818	1.276391
Stddev	.0020377	.002592	.024589	.004753	.0052828	.26875	.007062
%RSD	1.971815	36.54435	.8817005	151.4731	42.78425	.5147643	.5532869
#1	.1049324	-.008312	2.810228	.002331	.0149907	51.89805	1.268451
#2	.1040469	-.008853	2.761977	-.006269	.0157872	52.37298	1.281971
#3	.1010446	-.004117	2.794332	-.005474	.0062649	52.35349	1.278753

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040462	.0164297	112.3092	.1518202	.0758670	.6834355	141.1607
Stddev	.0002836	.0002822	.6492	.0028172	.0005889	.0066983	.7901
%RSD	7.008536	1.717605	.5780663	1.855629	.7762810	.9800965	.5597411
#1	.0043171	.0164339	111.5647	.1540767	.0765425	.6779530	140.2506
#2	.0040701	.0161455	112.7573	.1486627	.0754608	.6814518	141.5597
#3	.0037514	.0167098	112.6057	.1527212	.0755979	.6909015	141.6718

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.666616	32.74313	.1602732	-.011023	1.155354	.1529453	2.300774
Stddev	.053473	.31402	.0014182	.000894	.300330	.0013337	.036479
%RSD	.5531698	.9590531	.8848451	8.110168	25.99462	.8719847	1.585498
#1	9.607644	32.38064	.1604723	-.010433	1.289725	.1515876	2.336756
#2	9.711946	32.93228	.1587660	-.012051	1.365037	.1542535	2.263818
#3	9.680257	32.91647	.1615813	-.010584	.811299	.1529948	2.301748

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.581276	9.137696	.0564300	.0033058	2.443422	5.019033	.1556999
Stddev	.146758	.072988	.0022605	.0002460	.018732	.013098	.0042409
%RSD	1.935798	.7987552	4.005793	7.441155	.7666153	.2609681	2.723778
#1	7.412030	9.153009	.0574361	.0032110	2.457825	5.003922	.1517568
#2	7.658488	9.058267	.0580128	.0035851	2.422246	5.027136	.1551567
#3	7.673308	9.201812	.0538412	.0031213	2.450195	5.026041	.1601863

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-01 Acquired: 12/03/2024 2:06:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.005739	.0491639	.2072530
Stddev	.003126	.0002218	.0011742
%RSD	.3108003	.4511385	.5665642
#1	1.002136	.0489393	.2059015
#2	1.007718	.0491696	.2078346
#3	1.007364	.0493828	.2080230

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1126.992	33613.13	6537.781	1005.672	1684.827
Stddev	6.775	367.65	17.595	14.959	8.011
%RSD	.6011614	1.093765	.2691282	1.487481	.4754620
#1	1120.737	33246.99	6550.025	990.905	1680.020
#2	1134.189	33982.27	6517.618	1020.817	1694.074
#3	1126.050	33610.12	6545.701	1005.295	1680.386

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-05 Acquired: 12/03/2024 2:11:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1453208	-.004177	9.698123	-.013884	.0327832	67.66245
Stddev	.0039528	.002322	.078161	.008126	.0031733	1.69061
%RSD	2.720031	55.58477	.8059385	58.52570	9.679743	2.498589
#1	.1442411	-.006459	9.613992	-.017260	.0347812	66.57325
#2	.1420201	-.001817	9.768483	-.004615	.0291241	69.61005
#3	.1497012	-.004255	9.711893	-.019778	.0344443	66.80406

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.925302	.0059572	.0406507	201.7330	.2054745	.1086725
Stddev	.094760	.0001394	.0004391	4.7944	.0012675	.0006253
%RSD	2.414070	2.339469	1.080160	2.376613	.6168714	.5753799
#1	3.867210	.0058777	.0401486	198.8113	.2041923	.1079576
#2	4.034649	.0058758	.0408403	207.2662	.2067268	.1091176
#3	3.874046	.0061181	.0409630	199.1214	.2055043	.1089423

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.73722	247.2935	12.26098	34.94081	.2689988	-.014797
Stddev	.25100	5.7459	.27897	.94069	.0028848	.000696
%RSD	2.337705	2.323513	2.275303	2.692248	1.072434	4.704924
#1	10.58155	243.5362	12.09515	34.35928	.2658068	-.014511
#2	11.02678	253.9079	12.58306	36.02610	.2714198	-.015591
#3	10.60333	244.4364	12.10472	34.43705	.2697697	-.014290

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.650466	.2115679	8.141575	8.205581	F 15.52394	.0985107
Stddev	.155423	.0076675	.057202	.212214	.15432	.0032049
%RSD	5.863983	3.624122	.7025894	2.586216	.9940486	3.253391
#1	2.826527	.2060587	8.078119	8.003924	15.36721	.0964714
#2	2.532300	.2203248	8.189180	8.426974	15.67572	.1022048
#3	2.592571	.2083204	8.157426	8.185845	15.52890	.0968558

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-05 Acquired: 12/03/2024 2:11:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0073309	3.736989	5.642136	.4018851	1.309156	.0731532
Stddev	.0007663	.040788	.116372	.0072253	.030561	.0031036
%RSD	10.45295	1.091460	2.062556	1.797845	2.334443	4.242616
#1	.0074499	3.689903	5.543873	.3936410	1.289011	.0704481
#2	.0065121	3.761438	5.770645	.4048975	1.344321	.0765415
#3	.0080307	3.759626	5.611890	.4071166	1.294135	.0724699

Elem	Sr4077
Units	ppm
Avg	.5896203
Stddev	.0130287
%RSD	2.209673
#1	.5810514
#2	.6046135
#3	.5831960

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1119.746	34064.24	6496.291	1010.083	1629.022
Stddev	9.526	93.31	129.401	5.083	13.771
%RSD	.8507141	.2739234	1.991920	.5032437	.8453652
#1	1128.362	34144.63	6571.154	1013.889	1642.852
#2	1109.516	33961.92	6346.872	1004.310	1615.310
#3	1121.359	34086.16	6570.847	1012.050	1628.905

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-06 Acquired: 12/03/2024 2:15:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1865486	-.005426	13.91416	-.012652	.0504091	73.19032
Stddev	.0029699	.002384	.40866	.008438	.0038046	.49991
%RSD	1.592027	43.93636	2.937029	66.69301	7.547467	.6830336
#1	.1854869	-.004252	14.27963	-.018049	.0474035	73.76072
#2	.1842555	-.008170	13.98995	-.016978	.0546867	72.82829
#3	.1899035	-.003857	13.47291	-.002928	.0491370	72.98196

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.412691	.0071084	.0373168	167.0844	.2859113	.0915700
Stddev	.046064	.0001609	.0011700	1.2598	.0019461	.0030689
%RSD	.7183239	2.263495	3.135404	.7539679	.6806794	3.351372
#1	6.458843	.0070215	.0382813	168.2204	.2875962	.0945712
#2	6.366716	.0070097	.0376540	165.7295	.2837811	.0917011
#3	6.412515	.0072941	.0360152	167.3033	.2863565	.0884377

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.20295	235.3713	10.14049	22.63712	.2474800	-.008151
Stddev	.08858	1.3199	.10328	.18182	.0081124	.000206
%RSD	.7259098	.5607532	1.018501	.8032056	3.277980	2.526299
#1	12.29923	236.8386	10.23761	22.78714	.2547422	-.008062
#2	12.12490	234.2809	10.03199	22.43491	.2489729	-.008004
#3	12.18472	234.9945	10.15187	22.68931	.2387249	-.008386

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.364488	.2530646	10.96383	8.250035	F 15.81408	.1231794
Stddev	.508386	.0019678	.02050	.083328	.48348	.0028823
%RSD	15.11036	.7775813	.1869538	1.010036	3.057275	2.339911
#1	3.716835	.2553257	10.96360	8.343108	16.23985	.1250729
#2	3.594941	.2517393	10.98444	8.224634	15.91390	.1198623
#3	2.781688	.2521289	10.94345	8.182363	15.28848	.1246030

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-06 Acquired: 12/03/2024 2:15:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0098564	3.983172	5.636132	.5898318	1.296412	.0708953
Stddev	.0006976	.118835	.053312	.0165693	.010931	.0000685
%RSD	7.077416	2.983429	.9459034	2.809153	.8431446	.0966052
#1	.0104210	4.088618	5.678966	.5991145	1.309032	.0709374
#2	.0090765	4.006491	5.576424	.5996788	1.289921	.0708163
#3	.0100717	3.854405	5.653005	.5707020	1.290283	.0709323

Elem	Sr4077
Units	ppm
Avg	.8213553
Stddev	.0064751
%RSD	.7883370
#1	.8282772
#2	.8154466
#3	.8203420

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1101.490	32797.46	6436.060	970.7896	1677.940
Stddev	24.455	99.66	47.971	3.7549	45.676
%RSD	2.220211	.3038749	.7453528	.3867882	2.722144
#1	1082.593	32684.88	6391.647	968.6875	1637.908
#2	1092.766	32833.13	6486.935	968.5566	1668.218
#3	1129.111	32874.39	6429.599	975.1247	1727.694

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCV077 Acquired: 12/03/2024 2:19:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV077 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.288524	5.189174	24.43303	4.979370	4.745299	395.2752
Stddev	.047929	.042424	.22796	.064781	.062428	3.4115
%RSD	.9062773	.8175544	.9330033	1.300992	1.315586	.8630732
#1	5.306343	5.196781	24.44614	4.991560	4.747848	391.4275
#2	5.234238	5.143460	24.19880	4.909359	4.681635	397.9303
#3	5.324991	5.227279	24.65416	5.037190	4.806413	396.4680

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.718679	.5200511	2.588169	396.3578	14.85607	2.473566
Stddev	.066282	.0045065	.021894	2.1399	.81701	.025801
%RSD	.6820086	.8665574	.8459422	.5399024	5.499529	1.043075
#1	9.682516	.5200715	2.591105	395.0784	15.34895	2.474039
#2	9.795177	.5245474	2.564954	398.8283	15.30628	2.447532
#3	9.678343	.5155344	2.608446	395.1668	13.91299	2.499128

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.73196	402.7353	14.40409	418.6270	2.440035	1.200334
Stddev	.11912	3.9350	.08464	4.1513	.021789	.068776
%RSD	.8085874	.9770780	.5875809	.9916392	.8929944	5.729760
#1	14.64117	398.8965	14.37058	414.5275	2.440225	1.239515
#2	14.86684	406.7600	14.50035	422.8282	2.418151	1.240566
#3	14.68787	402.5495	14.34133	418.5254	2.461729	1.120920

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	400.1177	2.463089	13.67013	150.4962	5.121295	4.527090
Stddev	2.7726	.008910	.88355	1.4657	.037637	.040057
%RSD	.6929429	.3617319	6.463349	.9738976	.7349155	.8848256
#1	397.4312	2.463497	14.12941	149.6217	5.121433	4.508855
#2	402.9690	2.471787	14.22944	152.1883	5.083589	4.573020
#3	399.9529	2.453982	12.65153	149.6786	5.158863	4.499395

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCV077 Acquired: 12/03/2024 2:19:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV077 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.848960	4.956191	F 3.461749	4.962373	4.954133	4.793786
Stddev	.058955	.042819	.040863	.042493	.042364	.032414
%RSD	1.215835	.8639482	1.180408	.8563066	.8551162	.6761586
#1	4.863113	4.940417	3.469364	4.959517	4.916185	4.772869
#2	4.784216	4.923497	3.498269	4.921379	4.999840	4.831124
#3	4.899551	5.004659	3.417614	5.006222	4.946375	4.777364

Elem	Sr4077
Units	ppm
Avg	4.873509
Stddev	.040306
%RSD	.8270502
#1	4.836525
#2	4.916470
#3	4.867532

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	827.1764	27083.04	5478.128	719.6499	1372.145
Stddev	8.4682	1269.44	21.997	41.2425	11.404
%RSD	1.023750	4.687230	.4015386	5.730915	.8311299
#1	825.8271	26285.77	5500.250	697.0962	1373.104
#2	836.2383	26416.42	5456.258	694.6026	1383.039
#3	819.4639	28546.92	5477.875	767.2509	1360.291

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCB077 Acquired: 12/03/2024 2:24:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB077 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0078162	-.002108	-.002164	-.000575	.0028966	.0077448	.0011419
Stddev	.0009566	.002339	.001852	.008305	.0016909	.0072179	.0005816
%RSD	12.23905	110.9506	85.57146	1443.587	58.37591	93.19666	50.93141
#1	.0069190	.000592	-.003214	-.002747	.0009441	.0158238	.0013575
#2	.0077068	-.003429	-.003252	.008599	.0038762	.0054790	.0004833
#3	.0088228	-.003487	-.000026	-.007578	.0038695	.0019317	.0015848

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001071	-.000035	.0034183	.0007770	-.000048	.0015754	.0119350
Stddev	.0001003	.000030	.0051117	.0006892	.000252	.0009766	.0126505
%RSD	93.63656	85.80254	149.5381	88.70221	525.9634	61.99165	105.9946
#1	.0000032	-.000047	.0048986	.0000160	-.000026	.0023207	.0093788
#2	.0002034	-.000001	-.002270	.0013591	-.000310	.0004698	.0007578
#3	.0001148	-.000057	.007626	.0009558	.000192	.0019359	.0256683

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004995	-.010972	.0007124	.0004724	.0943017	-.001881	.0005404
Stddev	.0005216	.023448	.0004922	.0004489	.0793320	.005988	.0003009
%RSD	104.4310	213.7046	69.09988	95.02811	84.12580	318.3618	55.67878
#1	-.000080	-.022966	.0004282	.0004670	.1848500	-.003287	.0002046
#2	.000646	-.025997	.0004281	.0009241	.0610407	-.007041	.0006312
#3	.000932	.016047	.0012807	.0000263	.0370142	.004685	.0007854

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.555413	.0004205	-.001261	.0003081	.0058006	.0002688	-.000692
Stddev	.135775	.0029450	.000935	.0002967	.0004729	.0005510	.002648
%RSD	24.44568	700.4087	74.16526	96.29829	8.153383	204.9820	382.7717
#1	-.404096	-.002927	-.000194	.0003700	.0063462	.0008647	.001446
#2	-.595548	.002611	-.001650	.0005688	.0055493	.0001641	-.003655
#3	-.666596	.001577	-.001940	-.000015	.0055064	-.000222	.000133

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCB077 Acquired: 12/03/2024 2:24:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB077 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0006341	-.010102	.0001861
Stddev	.0013402	.001665	.0000689
%RSD	211.3360	16.47910	37.01185
#1	-.000067	-.008425	.0002631
#2	-.000210	-.011754	.0001649
#3	.002179	-.010128	.0001303

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1033.923	30222.62	5663.291	911.7366	1933.060
Stddev	2.340	159.67	6.221	1.9695	1.795
%RSD	.2262823	.5283112	.1098554	.2160145	.0928414
#1	1036.544	30076.31	5657.068	912.1662	1934.784
#2	1033.178	30198.62	5663.293	909.5877	1933.193
#3	1032.046	30392.93	5669.511	913.4558	1931.202

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-07 Acquired: 12/03/2024 2:28:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0712817	-.010806	1.240391	-.010621	.0083188	73.84288
Stddev	.0152852	.005009	.018923	.005882	.0028956	.13361
%RSD	21.44332	46.34986	1.525584	55.38086	34.80771	.1809426
#1	.0842539	-.015256	1.258514	-.017035	.0092271	73.69544
#2	.0544308	-.011781	1.220758	-.009351	.0050780	73.87726
#3	.0751604	-.005382	1.241902	-.005478	.0106513	73.95595

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.269663	.0058402	.0137626	444.0469	.1403056	.0814236
Stddev	.002507	.0000705	.0004850	.5520	.0011454	.0010052
%RSD	.1974182	1.206439	3.524129	.1243054	.8163454	1.234561
#1	1.266845	.0057721	.0140763	443.4219	.1412598	.0825625
#2	1.270502	.0059128	.0132039	444.4674	.1406216	.0806604
#3	1.271643	.0058357	.0140074	444.2516	.1390354	.0810477

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3050869	183.4505	6.232253	125.5260	.2480620	-.007495
Stddev	.0009586	.6296	.007431	.2429	.0041111	.000240
%RSD	.3142156	.3431817	.1192423	.1935095	1.657295	3.207487
#1	.3061155	182.7714	6.224156	125.3551	.2513955	-.007758
#2	.3049269	183.5653	6.233843	125.8041	.2434683	-.007287
#3	.3042184	184.0148	6.238761	125.4188	.2493223	-.007439

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.142533	.1766241	1.465992	12.38756	F 10.53008	.1168824
Stddev	.149916	.0052795	.006632	.11009	.19347	.0026926
%RSD	6.997123	2.989125	.4524133	.8887147	1.837345	2.303666
#1	2.304055	.1723615	1.458885	12.39262	10.72399	.1138925
#2	2.115694	.1825298	1.467072	12.49503	10.33705	.1191157
#3	2.007849	.1749810	1.472017	12.27503	10.52920	.1176391

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-07 Acquired: 12/03/2024 2:28:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0077070	7.263031	6.880885	.0416029	1.065717	.0988279
Stddev	.0002033	.119794	.022895	.0012976	.002430	.0008314
%RSD	2.638002	1.649369	.3327284	3.119086	.2280231	.8412199
#1	.0077389	7.377568	6.891560	.0411559	1.063135	.0993750
#2	.0074897	7.138594	6.854602	.0405879	1.066055	.0992376
#3	.0078925	7.272931	6.896492	.0430649	1.067960	.0978713

Elem	Sr4077
Units	ppm
Avg	.5791799
Stddev	.0012443
%RSD	.2148402
#1	.5777447
#2	.5798380
#3	.5799569

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1025.853	30923.40	6203.444	919.9173	1510.551
Stddev	14.106	65.58	19.498	1.8748	23.630
%RSD	1.375074	.2120681	.3143104	.2038054	1.564339
#1	1011.468	30874.54	6186.420	917.9134	1487.534
#2	1039.662	30897.73	6224.716	921.6288	1534.750
#3	1026.429	30997.93	6199.198	920.2096	1509.368

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-08 Acquired: 12/03/2024 2:33:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1183618	-.003573	3.677507	-.013196	.0146574	80.05200
Stddev	.0090392	.006751	.013736	.008634	.0024256	.25646
%RSD	7.636941	188.9432	.3735005	65.42767	16.54885	.3203698
#1	.1079779	.003932	3.683497	-.012237	.0126649	80.32798
#2	.1226384	-.005502	3.661794	-.022269	.0173584	80.00700
#3	.1244692	-.009149	3.687231	-.005082	.0139488	79.82102

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.466239	.0059931	.0213238	91.17312	.1699556	.1022712
Stddev	.005708	.0001802	.0003899	.21927	.0005638	.0009682
%RSD	.2314532	3.007265	1.828336	.2404970	.3317355	.9466768
#1	2.472712	.0057939	.0212830	91.42240	.1702610	.1018584
#2	2.461926	.0060406	.0209560	91.01008	.1693050	.1015779
#3	2.464079	.0061449	.0217325	91.08689	.1703008	.1033774

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.238954	235.6258	16.28140	18.82978	.1897291	-.019466
Stddev	.001728	.6472	.02970	.01842	.0012784	.000228
%RSD	.1395094	.2746597	.1824115	.0978217	.6737839	1.169245
#1	1.238462	236.3471	16.31537	18.84976	.1906608	-.019719
#2	1.237525	235.4346	16.26034	18.81348	.1882717	-.019278
#3	1.240876	235.0959	16.26849	18.82609	.1902549	-.019402

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.261537	.2278358	3.940032	5.956483	F 11.44009	.0735115
Stddev	.229650	.0097301	.014454	.006530	.03171	.0028795
%RSD	10.15461	4.270657	.3668455	.1096339	.2771828	3.917015
#1	2.026285	.2389321	3.955048	5.963494	11.42786	.0717950
#2	2.273185	.2207618	3.926215	5.955382	11.41631	.0719037
#3	2.485142	.2238133	3.938833	5.950574	11.47609	.0768358

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-08 Acquired: 12/03/2024 2:33:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0073527	1.844695	4.599732	.1753088	1.454091	.0614214
Stddev	.0005083	.006632	.022709	.0039560	.001610	.0002734
%RSD	6.912368	.3595225	.4937102	2.256608	.1107043	.4451622
#1	.0079396	1.852350	4.625050	.1760024	1.454584	.0612864
#2	.0070617	1.840694	4.592986	.1710519	1.455396	.0612417
#3	.0070568	1.841040	4.581159	.1788722	1.452292	.0617361

Elem	Sr4077
Units	ppm
Avg	.4202294
Stddev	.0007254
%RSD	.1726254
#1	.4209306
#2	.4194820
#3	.4202755

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1185.574	35238.57	6818.823	1052.932	1708.003
Stddev	2.913	61.27	31.780	.360	7.188
%RSD	.2457421	.1738822	.4660613	.0342345	.4208207
#1	1182.982	35286.20	6788.729	1052.783	1701.852
#2	1188.727	35169.45	6815.685	1052.671	1715.904
#3	1185.012	35260.07	6852.056	1053.344	1706.254

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-09 Acquired: 12/03/2024 2:37:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0870359	-.008838	1.185466	-.004036	.0083828	69.81412	.9544632
Stddev	.0092858	.004556	.025256	.006307	.0036998	2.54960	.0314161
%RSD	10.66894	51.54677	2.130466	156.2746	44.13580	3.651978	3.291492
#1	.0952986	-.005557	1.214226	.001700	.0101062	72.32513	.9846605
#2	.0769866	-.006917	1.166901	-.010791	.0109066	67.22761	.9219559
#3	.0888224	-.014039	1.175271	-.003017	.0041357	69.88962	.9567733

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049920	.0126818	34.09768	.1253585	.0938838	.3938667	164.8961
Stddev	.0003262	.0002665	1.09730	.0017258	.0026970	.0119922	6.0347
%RSD	6.535118	2.101192	3.218104	1.376668	2.872738	3.044730	3.659670
#1	.0053265	.0129228	35.11973	.1272505	.0969881	.4069001	170.9826
#2	.0046747	.0127269	32.93810	.1249544	.0925468	.3832990	158.9146
#3	.0049749	.0123956	34.23521	.1238707	.0921164	.3914011	164.7911

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.81544	16.76840	.1716340	-.020570	1.169999	.1765310	1.357178
Stddev	.32760	.63781	.0042008	.000492	.052520	.0059596	.015988
%RSD	3.029004	3.803622	2.447550	2.392519	4.488880	3.375936	1.178062
#1	11.12092	17.40036	.1764812	-.020996	1.130810	.1832138	1.375307
#2	10.46948	16.12490	.1693701	-.020031	1.229674	.1717676	1.345091
#3	10.85593	16.77995	.1690507	-.020682	1.149512	.1746115	1.351135

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.117776	7.577163	.0443474	.0055023	.7155810	4.703257	.0545298
Stddev	.389409	.196877	.0015874	.0002657	.0156772	.145789	.0025049
%RSD	9.456771	2.598299	3.579501	4.829194	2.190832	3.099740	4.593620
#1	4.478211	7.804476	.0461457	.0053626	.7312468	4.860238	.0555730
#2	3.704741	7.460823	.0437557	.0058087	.6998925	4.572116	.0516719
#3	4.170375	7.466189	.0431408	.0053356	.7156036	4.677418	.0563446

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-09 Acquired: 12/03/2024 2:37:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.358667	.0447509	.1809288
Stddev	.049358	.0048895	.0059586
%RSD	3.632846	10.92603	3.293325
#1	1.409390	.0500619	.1865198
#2	1.310797	.0404364	.1746605
#3	1.355813	.0437544	.1816062

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1261.480	37411.66	7416.068	1114.100	1734.230
Stddev	14.950	207.93	188.710	5.693	34.833
%RSD	1.185125	.5557875	2.544611	.5110081	2.008547
#1	1244.296	37174.15	7224.288	1107.536	1694.147
#2	1268.643	37500.00	7601.551	1117.083	1751.386
#3	1271.500	37560.83	7422.366	1117.682	1757.157

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-10 Acquired: 12/03/2024 2:41:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0478953	-.002076	.8455568	-.001332	.0070323	62.37291	.6062818
Stddev	.0090471	.004657	.0051009	.004724	.0017018	.12143	.0008318
%RSD	18.88940	224.3057	.6032579	354.7172	24.19996	.1946881	.1371998
#1	.0543032	.003202	.8443369	.003169	.0056562	62.48342	.6071940
#2	.0518365	-.003825	.8411765	-.006252	.0065054	62.39241	.6060859
#3	.0375461	-.005606	.8511570	-.000912	.0089353	62.24291	.6055654

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038720	.0075965	82.13605	.1082239	.0572884	.2163702	137.0186
Stddev	.0002145	.0001089	.05580	.0011465	.0007869	.0015337	.2791
%RSD	5.538599	1.433521	.0679384	1.059387	1.373604	.7088222	.2037125
#1	.0036253	.0076923	82.17667	.1093508	.0581879	.2146638	137.2470
#2	.0039766	.0074781	82.07243	.1082622	.0569500	.2176338	137.1013
#3	.0040140	.0076190	82.15907	.1070587	.0567272	.2168131	136.7074

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.435552	32.60908	.1363471	-.011688	1.489217	.1715231	.9574548
Stddev	.001265	.11169	.0001090	.000055	.298249	.0046470	.0045017
%RSD	.0285175	.3425039	.0799166	.4676704	20.02723	2.709262	.4701765
#1	4.436219	32.66271	.1364566	-.011706	1.778861	.1671700	.9526853
#2	4.436343	32.68384	.1362387	-.011627	1.505742	.1709825	.9616297
#3	4.434093	32.48069	.1363460	-.011732	1.183050	.1764167	.9580496

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.011017	5.953745	.0449554	.0022803	1.984271	4.923135	.0290284
Stddev	.075149	.016682	.0015092	.0005186	.009298	.019989	.0009545
%RSD	1.873574	.2801980	3.357149	22.74248	.4685690	.4060160	3.288165
#1	3.940425	5.940174	.0461332	.0026877	1.974734	4.905801	.0293410
#2	4.002611	5.948690	.0454787	.0016965	1.993309	4.918605	.0297873
#3	4.090016	5.972369	.0432541	.0024567	1.984769	4.945000	.0279567

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-10 Acquired: 12/03/2024 2:41:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.007319	.0584612	.1519361
Stddev	.003338	.0005332	.0001905
%RSD	.3314080	.9119909	.1254087
#1	1.009650	.0588829	.1521474
#2	1.008812	.0578619	.1518836
#3	1.003495	.0586387	.1517773

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1111.782	32823.09	6380.683	976.9545	1738.664
Stddev	.631	95.81	13.299	2.8658	4.007
%RSD	.0567789	.2918883	.2084320	.2933402	.2304734
#1	1111.194	32855.75	6384.872	979.7446	1742.465
#2	1112.449	32715.22	6391.383	974.0185	1739.049
#3	1111.703	32898.30	6365.793	977.1004	1734.478

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-11 Acquired: 12/03/2024 2:46:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0602936	-.003253	.5963580	-.003658	.0046476	82.16216	.5060728
Stddev	.0019728	.000790	.0134545	.007192	.0021804	.19892	.0014344
%RSD	3.271974	24.29482	2.256106	196.5767	46.91481	.2421061	.2834363
#1	.0618457	-.002345	.5821703	-.001448	.0037823	82.38245	.5051731
#2	.0580736	-.003625	.5979697	-.011696	.0071278	81.99567	.5077270
#3	.0609615	-.003788	.6089340	.002168	.0030326	82.10836	.5053184

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048639	.0071804	27.66417	.1003475	.0805928	.1557892	165.1780
Stddev	.0002161	.0002129	.08709	.0008684	.0017812	.0016257	.0977
%RSD	4.442123	2.964954	.3148145	.8653939	2.210152	1.043516	.0591426
#1	.0048635	.0069373	27.57884	.1013140	.0786905	.1575748	165.2890
#2	.0046480	.0072699	27.75292	.1000958	.0808668	.1553982	165.1403
#3	.0050802	.0073339	27.66074	.0996328	.0822212	.1543947	165.1048

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.471178	19.52788	.1315747	-.016436	2.433367	.1891502	.4035534
Stddev	.018697	.05041	.0031458	.000434	.408894	.0070550	.0009391
%RSD	.2207108	.2581280	2.390888	2.640328	16.80362	3.729849	.2327164
#1	8.451056	19.58532	.1281777	-.016663	2.276346	.1925341	.4027458
#2	8.488013	19.50726	.1321590	-.016710	2.897497	.1810407	.4045840
#3	8.474467	19.49104	.1343874	-.015936	2.126258	.1938758	.4033305

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.488571	2.600578	.0395631	.0040775	.4345587	4.661994	.0373661
Stddev	.133976	.055003	.0036954	.0004357	.0087423	.013828	.0020384
%RSD	5.383643	2.115021	9.340409	10.68556	2.011773	.2966121	5.455316
#1	2.334958	2.538184	.0354158	.0041226	.4258655	4.672142	.0396532
#2	2.549511	2.621502	.0407676	.0036210	.4433494	4.667596	.0367042
#3	2.581244	2.642049	.0425059	.0044889	.4344611	4.646244	.0357408

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-11 Acquired: 12/03/2024 2:46:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.521485	.0510971	.1281824
Stddev	.004962	.0009771	.0002505
%RSD	.3261307	1.912219	.1954472
#1	1.525891	.0514339	.1284640
#2	1.516110	.0499962	.1279843
#3	1.522454	.0518613	.1280988

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1160.878	34108.76	6537.537	1018.074	1788.126
Stddev	14.165	77.43	23.797	2.054	35.483
%RSD	1.220169	.2270145	.3640066	.2017736	1.984350
#1	1175.451	34198.15	6544.816	1020.097	1825.261
#2	1160.022	34065.64	6510.951	1015.990	1784.552
#3	1147.161	34062.48	6556.845	1018.135	1754.566

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-12 Acquired: 12/03/2024 2:50:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHP1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1084626	.0010181	1.516361	-.003768	.0079552	74.83796
Stddev	.0059202	.0038459	.013542	.006892	.0020659	.27475
%RSD	5.458290	377.7688	.8930373	182.9165	25.96903	.3671254
#1	.1072726	-.003413	1.530700	.002393	.0061013	74.61872
#2	.1032279	.003488	1.514590	-.002486	.0075821	74.74899
#3	.1148875	.002980	1.503791	-.011210	.0101822	75.14617

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.064688	.0054449	.0192592	46.34386	.3148175	.1096280
Stddev	.001642	.0001657	.0001471	.17766	.0134262	.0001992
%RSD	.1542193	3.043051	.7639528	.3833479	4.264744	.1816711
#1	1.064201	.0053906	.0193967	46.16472	.3303199	.1097497
#2	1.063346	.0056310	.0191040	46.34685	.3069272	.1097361
#3	1.066519	.0053132	.0192769	46.51999	.3072054	.1093982

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3637274	196.0150	16.38190	19.81955	.2673865	-.018078
Stddev	.0043240	.9977	.05846	.08056	.0017014	.002132
%RSD	1.188811	.5089863	.3568520	.4064714	.6363173	11.79485
#1	.3599580	194.9229	16.32749	19.77313	.2688026	-.015618
#2	.3684477	196.2434	16.37450	19.77295	.2678579	-.019220
#3	.3627763	196.8786	16.44370	19.91258	.2654991	-.019397

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.401947	.2179399	2.277204	10.16981	F 10.48061	.0798641
Stddev	.168292	.0015571	.076160	.10838	.08974	.0022763
%RSD	12.00413	.7144628	3.344449	1.065709	.8562451	2.850174
#1	1.238061	.2162127	2.364266	10.17706	10.56958	.0777131
#2	1.574322	.2183707	2.222926	10.05798	10.48213	.0796314
#3	1.393458	.2192362	2.244422	10.27438	10.39012	.0822477

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-12 Acquired: 12/03/2024 2:50:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHP1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0068365	3.151456	5.205623	.2084969	1.321249	.0608062
Stddev	.0004180	.016896	.004380	.0034412	.002603	.0008947
%RSD	6.114605	.5361360	.0841413	1.650489	.1970413	1.471422
#1	.0063975	3.170020	5.208152	.2122314	1.318393	.0598535
#2	.0068822	3.147373	5.200565	.2078051	1.321865	.0616287
#3	.0072297	3.136976	5.208152	.2054541	1.323490	.0609364

Elem	Sr4077
Units	ppm
Avg	.2343661
Stddev	.0006434
%RSD	.2745136
#1	.2336429
#2	.2345806
#3	.2348749

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1201.117	34930.34	6822.218	1045.304	1751.990
Stddev	7.616	1113.69	39.842	31.197	16.071
%RSD	.6341040	3.188323	.5840017	2.984453	.9173193
#1	1193.924	33645.23	6866.757	1009.650	1737.108
#2	1200.331	35531.98	6809.930	1067.582	1749.830
#3	1209.096	35613.81	6789.968	1058.681	1769.032

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-13 Acquired: 12/03/2024 2:55:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHP2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1009017	-.004992	1.518909	-.009589	.0042860	71.41917	1.025378
Stddev	.0031526	.000794	.009029	.007793	.0003929	.19058	.002316
%RSD	3.124476	15.90178	.5944090	81.26853	9.167342	.2668435	.2258539
#1	.1017741	-.005710	1.508539	-.017807	.0046308	71.46392	1.023848
#2	.0974046	-.005127	1.525024	-.002307	.0043690	71.58339	1.028043
#3	.1035262	-.004139	1.523163	-.008652	.0038582	71.21020	1.024245

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0051252	.0266727	45.07419	.1393825	.1039195	.3655918	191.6819
Stddev	.0001144	.0003375	.10377	.0020000	.0014223	.0003282	.5596
%RSD	2.231268	1.265418	.2302288	1.434903	1.368676	.0897654	.2919612
#1	.0050146	.0262902	44.99556	.1383025	.1022852	.3654550	192.0322
#2	.0052430	.0269287	45.19181	.1416903	.1045959	.3659662	191.9771
#3	.0051180	.0267992	45.03519	.1381546	.1048773	.3653542	191.0365

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.43963	22.15018	.2222406	-.017713	1.390170	.2066023	2.193677
Stddev	.03240	.08078	.0019696	.000469	.211232	.0035827	.037215
%RSD	.2098506	.3646862	.8862517	2.648929	15.19473	1.734086	1.696488
#1	15.40358	22.23485	.2200114	-.018044	1.187182	.2060222	2.168552
#2	15.46631	22.14174	.2229648	-.017176	1.374549	.2104397	2.236431
#3	15.44900	22.07395	.2237456	-.017919	1.608779	.2033451	2.176047

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.355764	8.730837	.0711249	.0065607	2.260638	5.129790	.2811547
Stddev	.074886	.069017	.0031243	.0010050	.015148	.019613	.0040671
%RSD	.8962244	.7904916	4.392673	15.31777	.6700570	.3823258	1.446558
#1	8.328120	8.653396	.0737195	.0056712	2.244440	5.109854	.2768696
#2	8.440543	8.753261	.0676568	.0063602	2.263023	5.149063	.2816330
#3	8.298630	8.785852	.0719982	.0076509	2.274452	5.130452	.2849614

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-13 Acquired: 12/03/2024 2:55:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHP2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.369220	.0548646	.2403907
Stddev	.004393	.0003597	.0006214
%RSD	.3208161	.6556312	.2585014
#1	1.372628	.0552792	.2409660
#2	1.370769	.0546798	.2404744
#3	1.364262	.0546349	.2397316

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1182.967	34864.53	6758.860	1043.261	1748.019
Stddev	5.455	359.46	7.323	14.416	11.430
%RSD	.4611483	1.031011	.1083467	1.381831	.6538906
#1	1187.380	35028.19	6752.575	1049.520	1760.714
#2	1184.652	34452.36	6766.902	1026.773	1744.800
#3	1176.867	35113.03	6757.104	1053.489	1738.544

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-14 Acquired: 12/03/2024 2:59:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHP3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1048534	-.000101	1.356055	-.010656	.0079593	75.99025	.9988617
Stddev	.0058281	.002607	.018638	.002714	.0019983	.27547	.0035563
%RSD	5.558295	2580.464	1.374411	25.46903	25.10668	.3625050	.3560333
#1	.1115046	-.000536	1.365294	-.007912	.0092902	76.28275	1.002489
#2	.1006405	.002697	1.334602	-.010718	.0089261	75.95222	.998715
#3	.1024152	-.002464	1.368268	-.013338	.0056614	75.73577	.995381

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0054263	.0179900	35.23112	.1290758	.1058824	.3233794	188.4881
Stddev	.0001241	.0003419	.13403	.0052980	.0016798	.0043431	.6693
%RSD	2.287447	1.900727	.3804216	4.104533	1.586514	1.343048	.3551122
#1	.0052839	.0181013	35.31594	.1247663	.1072244	.3221901	189.2567
#2	.0055115	.0176062	35.30081	.1349908	.1039985	.3281933	188.1744
#3	.0054834	.0182623	35.07660	.1274704	.1064243	.3197548	188.0333

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.95220	20.05967	.1887775	-.018544	1.390150	.2112241	1.890021
Stddev	.02631	.14969	.0025103	.001757	.095817	.0046362	.062439
%RSD	.1649499	.7462400	1.329750	9.476884	6.892581	2.194901	3.303611
#1	15.95448	20.18708	.1892082	-.019680	1.392066	.2150857	1.841420
#2	15.97731	20.09712	.1860797	-.016520	1.293389	.2060824	1.960441
#3	15.92483	19.89480	.1910445	-.019433	1.484995	.2125043	1.868200

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.451016	9.013175	.0618808	.0064536	1.640572	4.806576	.1840764
Stddev	.203883	.161146	.0032298	.0003559	.031868	.030464	.0023910
%RSD	2.736315	1.787890	5.219396	5.514344	1.942493	.6337910	1.298920
#1	7.686098	9.071517	.0649415	.0065849	1.666599	4.772226	.1840923
#2	7.344474	8.830984	.0621959	.0060508	1.605031	4.830316	.1816774
#3	7.322477	9.137023	.0585050	.0067252	1.650087	4.817186	.1864594

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-14 Acquired: 12/03/2024 2:59:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHP3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.443162	.0538955	.2596170
Stddev	.009736	.0019052	.0008550
%RSD	.6746100	3.535041	.3293480
#1	1.453578	.0554565	.2605912
#2	1.441617	.0544574	.2592692
#3	1.434291	.0517725	.2589907

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1205.241	35434.04	6818.100	1059.699	1763.162
Stddev	13.716	890.02	9.770	28.266	27.043
%RSD	1.137993	2.511752	.1433019	2.667337	1.533768
#1	1199.372	36038.85	6811.121	1076.654	1749.971
#2	1220.915	34412.07	6813.914	1027.069	1794.269
#3	1195.437	35851.22	6829.266	1075.374	1745.246

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-15 Acquired: 12/03/2024 3:03:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHP4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1131341	-.007046	.6616275	-.000957	.0043518	83.14177	.7223094
Stddev	.0072710	.005835	.0141109	.001365	.0005334	1.14267	.0086282
%RSD	6.426918	82.81678	2.132756	142.6749	12.25725	1.374358	1.194533
#1	.1172221	-.006013	.6630750	-.000557	.0047618	83.25039	.7230596
#2	.1174411	-.001796	.6468486	-.002477	.0045450	81.94867	.7133305
#3	.1047392	-.013328	.6749588	.000164	.0037487	84.22624	.7305380

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0059321	.0145945	18.76719	.1169249	.1248158	.2545912	213.4014
Stddev	.0001820	.0003587	.20976	.0016584	.0017293	.0049138	3.0256
%RSD	3.068424	2.457713	1.117673	1.418306	1.385462	1.930078	1.417807
#1	.0058085	.0149104	18.70675	.1182637	.1261904	.2558959	213.1826
#2	.0058466	.0142046	18.59428	.1150698	.1228742	.2491567	210.4911
#3	.0061411	.0146686	19.00053	.1174413	.1253829	.2587209	216.5305

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.56642	18.78356	.1877612	-.026813	1.344710	.2204950	.9790143
Stddev	.19504	.24962	.0029186	.000620	.166473	.0062075	.0144739
%RSD	1.252942	1.328947	1.554444	2.313994	12.37982	2.815242	1.478420
#1	15.55525	18.67467	.1893794	-.026113	1.321548	.2229269	.9793668
#2	15.37721	18.60688	.1843920	-.027296	1.191031	.2134398	.9643674
#3	15.76681	19.06913	.1895123	-.027029	1.521550	.2251183	.9933088

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.426576	6.678698	.0530628	.0053948	.8839916	4.523123	.0355202
Stddev	.285457	.093327	.0018466	.0007377	.0204302	.053884	.0026129
%RSD	4.441825	1.397384	3.479967	13.67362	2.311132	1.191312	7.356182
#1	6.439923	6.723317	.0550947	.0061868	.8715552	4.479563	.0328218
#2	6.134680	6.571437	.0514872	.0047272	.8728490	4.506427	.0380383
#3	6.705126	6.741340	.0526065	.0052704	.9075705	4.583379	.0357006

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-15 Acquired: 12/03/2024 3:03:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHP4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.533764	.0495741	.1703772
Stddev	.018971	.0012277	.0023057
%RSD	1.236870	2.476554	1.353309
#1	1.538674	.0488643	.1707094
#2	1.512821	.0488664	.1679233
#3	1.549797	.0509918	.1724987

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1282.209	38224.96	7308.928	1137.078	1752.206
Stddev	9.569	435.22	71.467	14.235	20.367
%RSD	.7462937	1.138564	.9778101	1.251861	1.162383
#1	1277.410	37882.10	7364.073	1131.599	1746.296
#2	1293.228	38714.58	7334.524	1153.238	1774.875
#3	1275.988	38078.19	7228.187	1126.397	1735.447

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-16 Acquired: 12/03/2024 3:08:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHP5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1042339	-.002105	.4758287	-.006623	.0032908	75.75432	.6234886
Stddev	.0058432	.004363	.0053567	.003684	.0019082	.47686	.0053998
%RSD	5.605838	207.2837	1.125763	55.62834	57.98636	.6294760	.8660576
#1	.1095798	.000227	.4817964	-.004052	.0011759	75.85869	.6246197
#2	.1051258	.000597	.4714363	-.010844	.0038128	75.23392	.6176128
#3	.0979960	-.007138	.4742533	-.004973	.0048837	76.17034	.6282332

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052495	.0130049	16.64010	.1121484	.1184585	.3172136	209.0823
Stddev	.0001917	.0000517	.12160	.0020957	.0002809	.0030402	1.2353
%RSD	3.650908	.3978003	.7307614	1.868714	.2370869	.9583907	.5908046
#1	.0054618	.0129684	16.66861	.1143004	.1181519	.3205728	209.2557
#2	.0050894	.0129822	16.50678	.1120308	.1187033	.3146511	207.7695
#3	.0051972	.0130641	16.74492	.1101139	.1185202	.3164171	210.2218

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.12189	19.77031	.1811281	-.026267	1.665965	.1995764	.8458435
Stddev	.15570	.10912	.0010797	.000807	.256534	.0021152	.0079932
%RSD	.9657404	.5519377	.5961075	3.070467	15.39853	1.059850	.9449994
#1	16.14740	19.68482	.1808160	-.025619	1.958958	.2016586	.8517031
#2	15.95502	19.73289	.1802387	-.026012	1.557227	.1974297	.8490894
#3	16.26326	19.89321	.1823295	-.027170	1.481709	.1996409	.8367379

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.349599	4.556711	.0526991	.0048517	.7564538	4.324586	.0596947
Stddev	.134130	.006103	.0011090	.0006032	.0050551	.015823	.0030967
%RSD	1.824995	.1339440	2.104461	12.43285	.6682598	.3658742	5.187574
#1	7.349351	4.550128	.0514318	.0049667	.7613985	4.330018	.0579358
#2	7.215593	4.557825	.0534919	.0053892	.7566678	4.306763	.0632703
#3	7.483853	4.562181	.0531736	.0041993	.7512952	4.336976	.0578780

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-16 Acquired: 12/03/2024 3:08:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHP5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.310178	.0533991	.1258102
Stddev	.012166	.0010876	.0010660
%RSD	.9285688	2.036643	.8472755
#1	1.314464	.0537029	.1258195
#2	1.296449	.0521919	.1247397
#3	1.319621	.0543024	.1268715

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1287.635	38363.87	7286.060	1143.908	1762.349
Stddev	3.339	630.68	36.817	13.927	5.022
%RSD	.2593396	1.643955	.5053140	1.217514	.2849664
#1	1284.388	37870.61	7264.363	1131.087	1758.286
#2	1291.060	38146.51	7328.570	1141.913	1767.964
#3	1287.455	39074.49	7265.246	1158.726	1760.797

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-17 Acquired: 12/03/2024 3:12:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHP6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1398861	.0037490	.5000491	-.011403	.0048662	75.45599	.7957739
Stddev	.0034469	.0062204	.0072298	.012572	.0003751	.73654	.0078735
%RSD	2.464100	165.9227	1.445822	110.2479	7.709390	.9761176	.9894113
#1	.1397908	-.001170	.4919222	-.023372	.0049248	75.82591	.8003557
#2	.1433797	.001676	.5057667	.001695	.0044652	75.93425	.8002836
#3	.1364878	.010741	.5024583	-.012532	.0052086	74.60781	.7866825

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0051101	.0131440	18.68342	.1035469	.1503168	.3413715	209.0871
Stddev	.0000614	.0002523	.19646	.0092442	.0017216	.0014899	2.3410
%RSD	1.202306	1.919907	1.051521	8.927527	1.145331	.4364306	1.119649
#1	.0050953	.0128564	18.78684	.1058233	.1483323	.3417317	210.1807
#2	.0050575	.0132470	18.80655	.0933772	.1514106	.3426482	210.6812
#3	.0051776	.0133286	18.45685	.1114402	.1512075	.3397346	206.3994

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.38382	16.54432	.1733124	-.026317	1.376428	.1900650	.7775782
Stddev	.31814	.20330	.0012063	.003487	.297560	.0049508	.0543886
%RSD	1.205803	1.228837	.6960301	13.25053	21.61827	2.604811	6.994610
#1	26.58006	16.61117	.1719245	-.025087	1.716603	.1871664	.7934974
#2	26.55464	16.70577	.1741083	-.030253	1.248201	.1957815	.7170063
#3	26.01676	16.31601	.1739045	-.023612	1.164479	.1872469	.8222309

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.909679	5.058231	.0576621	.0062939	.8095614	5.125914	.0554754
Stddev	.176043	.050285	.0019919	.0003292	.0074259	.036225	.0013256
%RSD	2.225668	.9941155	3.454416	5.230405	.9172759	.7066956	2.389611
#1	7.927808	5.001044	.0585923	.0059457	.8021499	5.167577	.0551736
#2	8.075956	5.095529	.0590187	.0066001	.8170016	5.101864	.0569258
#3	7.725273	5.078120	.0553752	.0063358	.8095328	5.108301	.0543266

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-17 Acquired: 12/03/2024 3:12:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHP6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.060745	.0470916	.1101768
Stddev	.010100	.0019915	.0012409
%RSD	.9521932	4.229044	1.126250
#1	1.066988	.0467121	.1108904
#2	1.066155	.0492455	.1108960
#3	1.049092	.0453171	.1087440

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1295.548	38912.66	7354.981	1161.778	1762.058
Stddev	5.842	2164.76	92.139	64.898	10.626
%RSD	.4509135	5.563136	1.252738	5.586052	.6030588
#1	1300.620	38051.71	7316.525	1138.822	1773.274
#2	1289.161	41375.44	7288.300	1235.033	1752.141
#3	1296.863	37310.82	7460.119	1111.478	1760.758

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-18 Acquired: 12/03/2024 3:17:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHP7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0912624	-.005000	7.978116	-.008237	.0074570	65.21351
Stddev	.0094639	.003966	.030714	.004711	.0026649	.21195
%RSD	10.36998	79.31546	.3849778	57.18864	35.73649	.3250136
#1	.1019844	-.004735	7.943433	-.010635	.0044082	65.27699
#2	.0877304	-.001173	7.989044	-.011266	.0093423	65.38647
#3	.0840725	-.009092	8.001872	-.002810	.0086205	64.97707

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.334334	.0056557	.0176129	131.7222	.1829949	.0786677
Stddev	.006061	.0000489	.0000756	.1249	.0009308	.0006098
%RSD	.2596664	.8651233	.4295242	.0948232	.5086677	.7751018
#1	2.340071	.0056685	.0175397	131.8606	.1835944	.0789746
#2	2.334936	.0056016	.0176908	131.6882	.1819226	.0790630
#3	2.327993	.0056969	.0176082	131.6178	.1834678	.0779655

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5129559	183.5496	7.409637	44.11481	.2205294	-.013961
Stddev	.0033759	.6634	.014761	.18794	.0002664	.000327
%RSD	.6581313	.3614331	.1992135	.4260291	.1207847	2.342742
#1	.5113558	183.5708	7.425613	43.90001	.2207956	-.013933
#2	.5168344	184.2021	7.396505	44.24898	.2205298	-.014301
#3	.5106775	182.8758	7.406793	44.19544	.2202629	-.013649

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.765943	.1899775	5.084092	7.000435	F 11.94321	.1303473
Stddev	.354680	.0035771	.023129	.063225	.02949	.0024038
%RSD	20.08445	1.882936	.4549293	.9031585	.2469240	1.844188
#1	2.170050	.1872355	5.082936	7.028440	11.91802	.1322670
#2	1.506259	.1940238	5.107777	7.044821	11.97565	.1276512
#3	1.621521	.1886731	5.061562	6.928044	11.93596	.1311237

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-18 Acquired: 12/03/2024 3:17:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHP7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0067450	5.064687	5.427455	.1480023	1.307481	.0649900
Stddev	.0002641	.021384	.021895	.0040534	.001687	.0012180
%RSD	3.915249	.4222194	.4034062	2.738745	.1290408	1.874168
#1	.0065421	5.040004	5.411086	.1500864	1.309304	.0663660
#2	.0066494	5.077609	5.452325	.1505896	1.305975	.0645542
#3	.0070436	5.076449	5.418953	.1433308	1.307163	.0640498

Elem	Sr4077
Units	ppm
Avg	.2646854
Stddev	.0003526
%RSD	.1332028
#1	.2649184
#2	.2648581
#3	.2642798

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1130.412	33684.80	6574.215	1003.546	1673.978
Stddev	.233	56.52	19.313	5.622	3.847
%RSD	.0206360	.1677762	.2937699	.5601846	.2298250
#1	1130.569	33621.90	6587.231	1000.773	1677.899
#2	1130.523	33731.31	6552.025	999.851	1673.826
#3	1130.144	33701.19	6583.389	1010.016	1670.209

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-19 Acquired: 12/03/2024 3:21:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHP8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0719341	-.002415	6.652305	-.006577	.0076011	64.38846
Stddev	.0071213	.006139	.050372	.006807	.0014605	.30463
%RSD	9.899691	254.1603	.7572121	103.4932	19.21495	.4731081
#1	.0687007	.000199	6.597421	-.013835	.0084090	64.43187
#2	.0670032	.001983	6.663069	-.005561	.0059151	64.66906
#3	.0800984	-.009429	6.696425	-.000335	.0084792	64.06446

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.981004	.0071492	.0142260	96.75419	.1354129	.0729150
Stddev	.003229	.0001995	.0001275	.30801	.0060208	.0005235
%RSD	.1630109	2.789994	.8964541	.3183472	4.446258	.7179094
#1	1.977790	.0073106	.0140927	96.48063	.1377215	.0723106
#2	1.984248	.0072108	.0142382	97.08781	.1399377	.0732100
#3	1.980975	.0069262	.0143469	96.69413	.1285794	.0732245

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4038045	179.8953	5.913639	33.87242	.2004819	-.015940
Stddev	.0014804	1.1772	.003503	.21479	.0026669	.001999
%RSD	.3666050	.6543798	.0592309	.6341084	1.330230	12.54010
#1	.4052545	179.6316	5.910319	33.78582	.1982167	-.015206
#2	.4038636	181.1820	5.913298	34.11699	.1998080	-.014412
#3	.4022955	178.8724	5.917300	33.71444	.2034211	-.018202

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.590143	.1865791	3.801507	6.924638	F 10.06480	.1409111
Stddev	.315664	.0077114	.164902	.149603	.08786	.0012229
%RSD	19.85132	4.133040	4.337794	2.160445	.8729680	.8678650
#1	1.520805	.1938217	3.881901	6.981120	9.96397	.1421529
#2	1.314912	.1784718	3.910793	7.037777	10.12491	.1397080
#3	1.934712	.1874440	3.611827	6.755017	10.10553	.1408724

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-19 Acquired: 12/03/2024 3:21:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHP8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0061451	3.845454	5.492574	.1351389	1.669939	.0565198
Stddev	.0003425	.020171	.084731	.0009243	.007732	.0007994
%RSD	5.574230	.5245485	1.542639	.6839422	.4630093	1.414405
#1	.0060493	3.829225	5.523556	.1341881	1.667649	.0571729
#2	.0065253	3.839100	5.557454	.1351944	1.678557	.0556283
#3	.0058606	3.868037	5.396713	.1360341	1.663610	.0567582

Elem	Sr4077
Units	ppm
Avg	.2651833
Stddev	.0005767
%RSD	.2174749
#1	.2652625
#2	.2657164
#3	.2645711

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1128.959	34324.82	6481.183	1023.515	1727.847
Stddev	5.907	1231.53	58.433	37.733	10.673
%RSD	.5231810	3.587857	.9015748	3.686643	.6177021
#1	1135.599	33681.79	6486.333	1005.485	1740.118
#2	1124.290	33547.92	6420.346	998.180	1722.702
#3	1126.989	35744.77	6536.870	1066.881	1720.721

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-20 Acquired: 12/03/2024 3:25:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHP9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0947708	-.006626	5.643308	-.009773	.0083554	61.80744	2.394906
Stddev	.0045482	.004018	.016046	.002708	.0006618	.20736	.004006
%RSD	4.799119	60.64417	.2843390	27.70539	7.921092	.3354996	.1672689
#1	.0910481	-.005040	5.646596	-.006791	.0087058	61.86495	2.394814
#2	.0934240	-.003643	5.625873	-.010451	.0087683	61.57739	2.390947
#3	.0998403	-.011195	5.657456	-.012077	.0075920	61.97998	2.398957

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050187	.0131091	193.8674	.1085224	.0822586	.3574175	171.7496
Stddev	.0001485	.0002216	.1929	.0013863	.0005893	.0049912	.2215
%RSD	2.958768	1.690495	.0995023	1.277454	.7163961	1.396473	.1289528
#1	.0050005	.0130373	193.6980	.1088747	.0827551	.3521506	171.8080
#2	.0051754	.0129323	193.8270	.1069939	.0816073	.3580243	171.5047
#3	.0048801	.0133577	194.0774	.1096986	.0824133	.3620775	171.9359

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.70770	35.48501	.1479302	-.012237	1.841411	.1796250	2.691031
Stddev	.01321	.08284	.0008035	.000533	.244566	.0060084	.027581
%RSD	.1128087	.2334524	.5431374	4.355620	13.28143	3.344965	1.024920
#1	11.69562	35.55174	.1488453	-.012040	1.573869	.1803428	2.710938
#2	11.72180	35.39229	.1473404	-.012840	2.053465	.1852422	2.659549
#3	11.70567	35.51100	.1476048	-.011830	1.896901	.1732899	2.702606

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.285118	8.501480	.0831204	.0040953	2.592818	7.047457	.0898105
Stddev	.079463	.035917	.0028589	.0009901	.019569	.018719	.0011548
%RSD	1.264299	.4224848	3.439519	24.17667	.7547537	.2656099	1.285786
#1	6.375057	8.511699	.0831079	.0047327	2.586739	7.057897	.0886079
#2	6.224416	8.461560	.0802678	.0029547	2.577009	7.058628	.0899130
#3	6.255880	8.531181	.0859856	.0045986	2.614705	7.025847	.0909106

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-20 Acquired: 12/03/2024 3:25:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHP9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.163201	.0614690	.3304666
Stddev	.004643	.0013790	.0005195
%RSD	.3991501	2.243398	.1572027
#1	1.164660	.0605918	.3304400
#2	1.158004	.0607567	.3299609
#3	1.166939	.0630585	.3309989

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1133.946	33691.73	6569.625	1000.475	1668.418
Stddev	3.340	187.65	31.213	8.101	6.912
%RSD	.2945818	.5569736	.4751174	.8097537	.4142719
#1	1132.875	33668.97	6568.744	993.056	1663.892
#2	1137.691	33889.72	6538.862	1009.119	1676.374
#3	1131.273	33516.49	6601.270	999.251	1664.988

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-21 Acquired: 12/03/2024 3:30:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0760547	-.008342	5.303015	-.002732	.0025244	57.00820	1.831892
Stddev	.0038044	.000734	.013909	.002965	.0029658	.48457	.014154
%RSD	5.002123	8.793730	.2622826	108.5551	117.4855	.8500091	.7726445
#1	.0796929	-.007513	5.311089	.000118	.0010011	57.19382	1.839257
#2	.0721035	-.008604	5.286955	-.002512	.0006298	57.37253	1.840846
#3	.0763678	-.008909	5.311001	-.005801	.0059423	56.45826	1.815575

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048625	.0111310	195.0068	.1155557	.0662226	.3636389	140.9527
Stddev	.0001692	.0002786	1.6460	.0057080	.0002087	.0053067	1.2876
%RSD	3.478781	2.502608	.8440612	4.939594	.3151286	1.459343	.9135237
#1	.0046775	.0111245	195.6901	.1095655	.0659817	.3671091	141.2351
#2	.0049007	.0114127	196.2010	.1209319	.0663403	.3662777	142.0757
#3	.0050093	.0108557	193.1292	.1161696	.0663459	.3575301	139.5473

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.858136	61.59778	.1443416	-.006949	1.502795	.1542127	2.735108
Stddev	.061324	.46926	.0007840	.002915	.069558	.0033008	.144552
%RSD	.7803893	.7618146	.5431610	41.95604	4.628588	2.140410	5.285072
#1	7.895452	61.80046	.1448527	-.009606	1.533615	.1559380	2.622649
#2	7.891596	61.93165	.1434389	-.003830	1.423151	.1562932	2.898156
#3	7.787360	61.06125	.1447331	-.007410	1.551618	.1504068	2.684519

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.843154	9.105398	.0750236	.0026753	2.629143	5.361584	.1032338
Stddev	.189879	.039657	.0016766	.0005760	.012335	.063507	.0034326
%RSD	3.249598	.4355298	2.234806	21.52905	.4691734	1.184485	3.325077
#1	5.951174	9.151177	.0767563	.0030366	2.642370	5.367507	.1050518
#2	5.954381	9.083471	.0734093	.0029783	2.617953	5.421921	.0992745
#3	5.623909	9.081548	.0749051	.0020111	2.627107	5.295322	.1053750

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-21 Acquired: 12/03/2024 3:30:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.030692	.0570556	.2320829
Stddev	.010200	.0014765	.0019392
%RSD	.9896354	2.587902	.8355704
#1	1.033616	.0587489	.2332477
#2	1.039111	.0560363	.2331568
#3	1.019349	.0563817	.2298443

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1127.902	32495.40	6533.561	969.8900	1653.991
Stddev	2.996	1459.76	43.149	42.5139	6.158
%RSD	.2656691	4.492200	.6604248	4.383369	.3723357
#1	1124.936	33621.30	6498.302	1004.563	1647.207
#2	1127.842	30846.10	6520.704	922.458	1659.230
#3	1130.928	33018.80	6581.678	982.649	1655.536

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-22 Acquired: 12/03/2024 3:34:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHR0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1134932	-.002521	1.669794	-.005235	.0074217	76.31562
Stddev	.0114391	.001874	.006101	.004362	.0017576	.59078
%RSD	10.07914	74.33627	.3653747	83.32667	23.68129	.7741326
#1	.1004410	-.000409	1.663153	-.010271	.0053934	76.79500
#2	.1217756	-.003169	1.671078	-.002647	.0083758	75.65561
#3	.1182629	-.003985	1.675151	-.002787	.0084959	76.49625

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.166317	.0058421	.0220972	53.00889	.1487929	.1247642
Stddev	.008261	.0000459	.0001052	.31225	.0023591	.0009613
%RSD	.7082799	.7865189	.4761889	.5890592	1.585511	.7704600
#1	1.172909	.0057891	.0219758	53.21777	.1493388	.1236829
#2	1.157050	.0058712	.0221609	52.64993	.1462086	.1250878
#3	1.168990	.0058659	.0221550	53.15897	.1508312	.1255218

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4153075	213.8359	18.49935	20.92084	.2393544	-.020706
Stddev	.0036810	1.4894	.12244	.07032	.0019683	.000511
%RSD	.8863378	.6965056	.6618772	.3361159	.8223372	2.466004
#1	.4174813	215.1516	18.60431	20.95375	.2375273	-.020705
#2	.4110573	212.2189	18.36483	20.84010	.2414387	-.021217
#3	.4173837	214.1372	18.52889	20.96867	.2390973	-.020196

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.671835	.2279409	2.361543	10.73033	F 12.14847	.0813261
Stddev	.213099	.0017473	.020168	.13280	.05420	.0030887
%RSD	12.74642	.7665523	.8540169	1.237639	.4461389	3.797857
#1	1.657859	.2299568	2.362427	10.87585	12.11480	.0845859
#2	1.891578	.2270031	2.340947	10.61569	12.21099	.0809491
#3	1.466068	.2268626	2.381254	10.69945	12.11962	.0784432

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-22 Acquired: 12/03/2024 3:34:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHR0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0074102	3.500870	4.937803	.1491891	1.429601	.0601516
Stddev	.0003364	.022456	.042544	.0008290	.014858	.0013429
%RSD	4.539288	.6414320	.8615981	.5556778	1.039296	2.232453
#1	.0071760	3.478071	4.951010	.1485246	1.439949	.0615900
#2	.0072590	3.522966	4.890222	.1501181	1.412576	.0599340
#3	.0077957	3.501571	4.972177	.1489247	1.436279	.0589309

Elem	Sr4077
Units	ppm
Avg	.2620731
Stddev	.0021260
%RSD	.8112131
#1	.2639571
#2	.2597681
#3	.2624939

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1227.048	36127.99	6993.099	1081.513	1754.949
Stddev	3.133	314.04	38.584	6.019	4.697
%RSD	.2552981	.8692556	.5517406	.5565722	.2676357
#1	1227.961	36090.11	6976.696	1080.216	1760.119
#2	1229.623	36459.26	7037.174	1088.075	1750.945
#3	1223.560	35834.60	6965.426	1076.247	1753.784

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4914-01 Acquired: 12/03/2024 3:38:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHF2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2328513	-.004217	5.603782	-.009393	.0067539	64.95725	1.726691
Stddev	.0102065	.006921	.031193	.009854	.0044259	.69447	.014115
%RSD	4.383256	164.1395	.5566343	104.9072	65.53058	1.069124	.8174392
#1	.2229156	-.011539	5.569301	-.000288	.0062040	65.68291	1.740670
#2	.2433086	.002218	5.630038	-.019856	.0114291	64.29886	1.712444
#3	.2323297	-.003329	5.612006	-.008036	.0026287	64.88998	1.726961

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045958	.0139200	121.7628	.3460746	.0810194	.4809417	155.1047
Stddev	.0003112	.0002162	1.0876	.0026297	.0004360	.0065229	1.6920
%RSD	6.771018	1.552898	.8932179	.7598725	.5381361	1.356277	1.090882
#1	.0047690	.0141532	122.7724	.3430815	.0805945	.4882162	156.9560
#2	.0042366	.0138805	120.6111	.3480145	.0809979	.4756134	153.6384
#3	.0047819	.0137263	121.9050	.3471277	.0814657	.4789955	154.7196

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.672308	32.37089	.1851169	-.012456	1.256171	.1831478	2.029332
Stddev	.080586	.46407	.0006843	.000399	.096930	.0021998	.007039
%RSD	.8331593	1.433617	.3696707	3.204438	7.716337	1.201095	.3468568
#1	9.749111	32.89519	.1848520	-.012756	1.146017	.1849861	2.024945
#2	9.588409	32.20464	.1858941	-.012003	1.294074	.1837468	2.037451
#3	9.679405	32.01284	.1846047	-.012610	1.328423	.1807106	2.025599

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.882480	8.822274	.0754968	.0047236	4.151090	5.190634	.0871124
Stddev	.155307	.038807	.0005280	.0008920	.027784	.037138	.0014462
%RSD	2.640163	.4398803	.6994078	18.88327	.6693276	.7154780	1.660179
#1	6.057039	8.780062	.0753453	.0057468	4.122203	5.233248	.0856983
#2	5.830797	8.856404	.0760840	.0041104	4.177622	5.173485	.0885887
#3	5.759604	8.830356	.0750610	.0043135	4.153445	5.165170	.0870503

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4914-01 Acquired: 12/03/2024 3:38:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHF2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.294241	.0595851	.2438270
Stddev	.013304	.0008006	.0025055
%RSD	1.027951	1.343539	1.027589
#1	1.308336	.0605086	.2464032
#2	1.281903	.0590895	.2413986
#3	1.292486	.0591571	.2436792

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1139.147	33814.68	6551.621	1008.541	1707.024
Stddev	2.200	45.77	57.685	.892	6.489
%RSD	.1931442	.1353527	.8804748	.0884443	.3801111
#1	1140.047	33830.64	6485.014	1008.120	1711.525
#2	1136.639	33763.06	6584.465	1007.937	1699.586
#3	1140.754	33850.33	6585.384	1009.566	1709.960

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4914-02 Acquired: 12/03/2024 3:43:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHF3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2199136	-.003138	5.912555	-.006223	.0111767	75.40338	1.777748
Stddev	.0032381	.003710	.026480	.008745	.0039160	.14003	.000143
%RSD	1.472431	118.2475	.4478602	140.5282	35.03672	.1857028	.0080486
#1	.2164646	-.006174	5.927696	-.004474	.0139724	75.49148	1.777641
#2	.2228885	.000998	5.881979	-.015709	.0067011	75.24191	1.777692
#3	.2203877	-.004237	5.927989	.001516	.0128566	75.47673	1.777911

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052594	.0155156	102.2095	.4894428	.0931141	.4330999	169.6083
Stddev	.0001839	.0001219	.1398	.0120017	.0007744	.0004684	.5220
%RSD	3.496233	.7857804	.1368089	2.452107	.8317209	.1081629	.3077400
#1	.0054421	.0154869	102.3297	.4913483	.0937459	.4332344	170.0258
#2	.0050744	.0154106	102.0560	.4766023	.0922501	.4325789	169.0231
#3	.0052619	.0156493	102.2429	.5003777	.0933462	.4334863	169.7760

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.94078	41.65988	.2892684	-.014378	1.570639	.2030657	2.182797
Stddev	.02115	.09524	.0019031	.001130	.024860	.0062962	.042989
%RSD	.1933219	.2286163	.6578990	7.855827	1.582801	3.100547	1.969450
#1	10.94011	41.74228	.2898981	-.013704	1.545251	.2027251	2.202895
#2	10.91998	41.55561	.2871302	-.015682	1.594936	.1969468	2.133440
#3	10.96226	41.68175	.2907768	-.013749	1.571730	.2095252	2.212056

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.585305	8.371072	.0725391	.0068852	3.914677	6.707872	.0867229
Stddev	.148107	.063199	.0009951	.0009583	.021793	.049293	.0017204
%RSD	2.651723	.7549741	1.371773	13.91897	.5567008	.7348457	1.983814
#1	5.636485	8.422252	.0736362	.0079549	3.936653	6.730883	.0886429
#2	5.701033	8.300431	.0722863	.0061047	3.893071	6.651282	.0853213
#3	5.418395	8.390534	.0716948	.0065961	3.914308	6.741451	.0862046

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4914-02 Acquired: 12/03/2024 3:43:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHF3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.470443	.0745123	.2214205
Stddev	.005745	.0005012	.0003682
%RSD	.3907307	.6725736	.1663032
#1	1.477017	.0742867	.2214163
#2	1.466385	.0750866	.2210544
#3	1.467926	.0741637	.2217908

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1171.855	34350.57	6684.152	1023.387	1721.894
Stddev	2.261	624.56	43.411	18.339	6.816
%RSD	.1929261	1.818183	.6494558	1.792034	.3958654
#1	1169.253	34075.86	6643.938	1011.660	1716.620
#2	1172.973	35065.40	6730.174	1044.522	1729.591
#3	1173.338	33910.46	6678.344	1013.980	1719.472

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4914-03 Acquired: 12/03/2024 3:47:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHF4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1729506	-.006209	12.88949	-.002694	.0105446	76.03790	3.273532
Stddev	.0040200	.003937	.24022	.006993	.0031470	.98620	.040561
%RSD	2.324356	63.41576	1.863665	259.5757	29.84505	1.296979	1.239072
#1	.1768609	-.010401	13.04827	-.010020	.0098482	75.09934	3.233267
#2	.1688293	-.005636	13.00707	-.001970	.0139814	75.94869	3.272946
#3	.1731615	-.002589	12.61313	.003909	.0078040	77.06567	3.314384

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0060954	.0226447	94.19765	.3664011	.1093840	.4632149	173.0041
Stddev	.0001547	.0005983	1.25596	.0039147	.0020422	.0036934	2.4201
%RSD	2.537656	2.641891	1.333329	1.068406	1.866960	.7973452	1.398876
#1	.0059175	.0231053	92.92441	.3621303	.1099581	.4601314	170.6431
#2	.0061979	.0228601	94.23294	.3698190	.1110776	.4622050	172.8899
#3	.0061708	.0219685	95.43560	.3672539	.1071162	.4673082	175.4793

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.95639	36.56059	.2471056	-.015616	1.612354	.2109888	3.667938
Stddev	.16050	.51391	.0049375	.000237	.185968	.0092778	.022861
%RSD	1.238787	1.405629	1.998128	1.516685	11.53392	4.397306	.6232667
#1	12.79136	36.08415	.2513223	-.015804	1.403705	.2036597	3.642567
#2	12.96585	36.49245	.2483204	-.015350	1.672713	.2078864	3.686936
#3	13.11195	37.10517	.2416741	-.015695	1.760645	.2214203	3.674310

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.855029	8.364823	.0590164	.0063888	3.074839	6.556446	.1446885
Stddev	.138952	.151438	.0011640	.0004461	.059765	.082034	.0022514
%RSD	2.373206	1.810417	1.972250	6.982586	1.943687	1.251192	1.556020
#1	5.717733	8.460769	.0579749	.0068163	3.110042	6.471149	.1448349
#2	5.851775	8.443458	.0588014	.0059262	3.108642	6.563416	.1468631
#3	5.995579	8.190243	.0602728	.0064239	3.005833	6.634772	.1423675

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4914-03 Acquired: 12/03/2024 3:47:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHF4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.422361	.0776851	.2344493
Stddev	.018788	.0011908	.0028301
%RSD	1.320935	1.532792	1.207133
#1	1.405429	.0763122	.2314714
#2	1.419080	.0784375	.2347726
#3	1.442574	.0783054	.2371039

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1197.289	35406.79	6874.190	1055.743	1719.753
Stddev	14.283	138.04	69.577	2.933	30.168
%RSD	1.192953	.3898795	1.012142	.2778307	1.754217
#1	1187.069	35565.89	6935.810	1058.578	1698.222
#2	1191.188	35335.74	6888.024	1055.930	1706.802
#3	1213.609	35318.75	6798.735	1052.721	1754.234

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4914-04 Acquired: 12/03/2024 3:52:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHF5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1370602	-.008298	5.685272	-.002987	.0065286	66.55691
Stddev	.0059231	.004103	.162836	.008701	.0010354	2.92644
%RSD	4.321514	49.44288	2.864171	291.2549	15.85902	4.396905
#1	.1437746	-.012242	5.868442	-.003211	.0075122	68.35281
#2	.1348304	-.008599	5.556917	-.011574	.0054483	68.13790
#3	.1325757	-.004053	5.630456	.005823	.0066251	63.18002

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.858200	.0054791	.0193930	186.6804	.1800902	.1040538
Stddev	.119750	.0002276	.0010010	8.0509	.0015346	.0029260
%RSD	4.189690	4.154581	5.161411	4.312690	.8521434	2.812029
#1	2.934840	.0053961	.0203362	191.6448	.1817989	.1074316
#2	2.919554	.0057365	.0183429	191.0051	.1796424	.1024291
#3	2.720207	.0053045	.0194999	177.3913	.1788293	.1023006

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5670712	153.5900	12.65894	41.36650	.2357866	-.010982
Stddev	.0246639	6.4967	.54706	1.74037	.0065123	.000614
%RSD	4.349350	4.229875	4.321568	4.207203	2.761959	5.593202
#1	.5843336	157.6243	12.99234	42.59040	.2431013	-.011040
#2	.5780567	157.0501	12.95690	42.13494	.2306187	-.011565
#3	.5388233	146.0957	12.02758	39.37417	.2336398	-.010341

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.793186	.1648081	3.357216	10.85519	F 14.60160	.0841441
Stddev	.334474	.0105859	.027775	.70406	.45152	.0056925
%RSD	18.65251	6.423195	.8273316	6.485964	3.092285	6.765145
#1	2.050978	.1754731	3.387825	11.34682	15.11589	.0885076
#2	1.913348	.1646481	3.350203	11.17012	14.27028	.0862196
#3	1.415231	.1543030	3.333619	10.04864	14.41864	.0777051

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4914-04 Acquired: 12/03/2024 3:52:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHF5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0062797	6.874081	7.283862	.0804026	1.207930	.0677135
Stddev	.0004371	.194960	.292966	.0021456	.049406	.0048883
%RSD	6.960900	2.836160	4.022119	2.668579	4.090130	7.219061
#1	.0067587	7.097091	7.471279	.0814138	1.234893	.0725281
#2	.0061777	6.735943	7.434050	.0779383	1.237988	.0678576
#3	.0059025	6.789209	6.946258	.0818558	1.150909	.0627547

Elem	Sr4077
Units	ppm
Avg	.4372617
Stddev	.0183615
%RSD	4.199209
#1	.4486249
#2	.4470818
#3	.4160783

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1149.651	34190.14	6895.874	1019.352	1643.017
Stddev	18.152	166.55	257.194	4.266	44.842
%RSD	1.578871	.4871320	3.729672	.4185484	2.729229
#1	1128.976	33998.28	6740.533	1014.484	1592.288
#2	1162.968	34297.53	6754.341	1021.128	1677.366
#3	1157.009	34274.60	7192.749	1022.444	1659.396

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCV078 Acquired: 12/03/2024 3:56:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV078 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.225055	5.194528	24.05877	4.974233	4.703216	399.4100
Stddev	.044415	.033376	.19491	.057636	.035001	5.1914
%RSD	.8500339	.6425242	.8101594	1.158701	.7442018	1.299765
#1	5.185726	5.160452	23.88397	4.923071	4.701754	400.3446
#2	5.216214	5.195974	24.02340	4.962953	4.668968	404.0705
#3	5.273226	5.227158	24.26895	5.036676	4.738925	393.8147

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.752515	.5394960	2.550104	401.7271	15.23461	2.439468
Stddev	.166613	.0087526	.021786	7.1768	1.06056	.018556
%RSD	1.708412	1.622374	.8543134	1.786494	6.961513	.7606719
#1	9.924643	.5437806	2.532564	409.2315	14.09918	2.424931
#2	9.740876	.5452808	2.543258	401.0196	16.19967	2.433106
#3	9.592027	.5294265	2.574491	394.9302	15.40499	2.460369

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.93922	414.2812	14.50187	398.5544	2.400779	1.220511
Stddev	.24849	7.6270	.24216	7.3225	.019313	.092168
%RSD	1.663371	1.841013	1.669857	1.837259	.8044428	7.551580
#1	15.18510	421.2704	14.76207	405.4143	2.384401	1.122213
#2	14.94437	415.4271	14.46045	399.4050	2.395860	1.304987
#3	14.68819	406.1461	14.28309	390.8437	2.422075	1.234332

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	409.2053	2.517098	14.03635	152.0767	5.121107	4.727417
Stddev	7.5841	.050365	1.21467	2.7375	.033433	.082682
%RSD	1.853374	2.000925	8.653777	1.800059	.6528485	1.748999
#1	415.8643	2.567898	12.79938	154.6626	5.086273	4.778703
#2	410.8015	2.516216	15.22743	152.3580	5.124112	4.771513
#3	400.9502	2.467179	14.08226	149.2094	5.152937	4.632034

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCV078 Acquired: 12/03/2024 3:56:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV078 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.833514	4.880567	F 3.576976	4.897211	5.033101	4.844990
Stddev	.032557	.049898	.064239	.035923	.095754	.079933
%RSD	.6735669	1.022375	1.795892	.7335427	1.902492	1.649804
#1	4.813205	4.844295	3.607558	4.860811	5.125254	4.920275
#2	4.816272	4.859935	3.620210	4.898185	5.039937	4.853591
#3	4.871066	4.937472	3.503160	4.932637	4.934111	4.761105

Elem	Sr4077
Units	ppm
Avg	4.916736
Stddev	.116881
%RSD	2.377206
#1	5.044453
#2	4.890660
#3	4.815096

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	836.3216	26730.37	5385.224	712.1225	1397.845
Stddev	4.6733	1592.26	101.300	54.4759	8.665
%RSD	.5587902	5.956735	1.881073	7.649790	.6199062
#1	840.6772	28456.90	5283.230	769.1962	1407.031
#2	836.9026	25319.74	5386.626	660.6822	1396.687
#3	831.3850	26414.46	5485.815	706.4892	1389.817

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCB078 Acquired: 12/03/2024 4:00:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB078 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022285	-.001578	-.001578	.0008362	.0003581	.0192799	.0021834
Stddev	.0092737	.003270	.001684	.0035626	.0026162	.0155328	.0004901
%RSD	416.1365	207.2498	106.6812	426.0697	730.5847	80.56468	22.44572
#1	-.000131	-.005331	-.002491	.0024678	.0017554	.0237265	.0020355
#2	-.005637	-.000064	-.002609	-.003250	-.002660	.0321044	.0027304
#3	.012454	.000661	.000365	.003291	.001979	.0020087	.0017843

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000891	-.000175	.0308155	.0010930	-.000170	-.000297	.0380108
Stddev	.0001042	.000138	.0115300	.0009651	.000242	.002151	.0104992
%RSD	116.8513	78.97897	37.41614	88.29739	142.1930	725.4181	27.62164
#1	.0001241	-.000100	.0175213	.0008440	.000057	.000714	.0449735
#2	-.000028	-.000090	.0368390	.0021582	-.000143	-.002767	.0431245
#3	.000171	-.000334	.0380861	.0002768	-.000424	.001163	.0259345

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016969	-.019293	.0003133	.0008500	.2769421	-.006380	.0002826
Stddev	.0001056	.047078	.0002288	.0010525	.5030186	.000964	.0005125
%RSD	6.220668	244.0092	73.02055	123.8120	181.6331	15.10808	181.3618
#1	.0017663	.028403	.0005354	-.000225	.2663717	-.007483	.0001049
#2	.0015755	-.065727	.0000783	.001879	.7851627	-.005956	.0008602
#3	.0017491	-.020557	.0003263	.000896	-.220708	-.005701	-.000117

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.683641	.0029247	-.002154	.0000970	.0061814	.0012055	-.001549
Stddev	.079390	.0011883	.001165	.0006202	.0028347	.0000196	.002188
%RSD	11.61281	40.62794	54.05513	639.5328	45.85880	1.627466	141.2670
#1	-.759603	.0023775	-.001221	-.000090	.0088339	.0011830	-.000238
#2	-.601218	.0042880	-.003459	.000789	.0031942	.0012139	-.000334
#3	-.690102	.0021087	-.001782	-.000408	.0065160	.0012195	-.004075

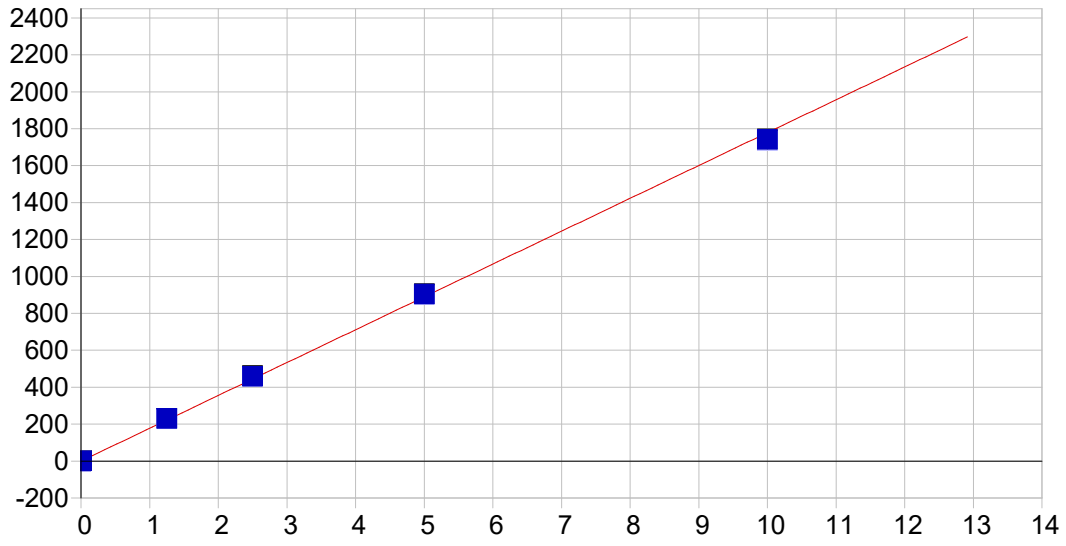
Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCB078 Acquired: 12/03/2024 4:00:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB078 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0007565	-.009094	.0003480
Stddev	.0012536	.000593	.0001934
%RSD	165.7062	6.522577	55.57618
#1	-.000310	-.008601	.0005708
#2	.002137	-.008928	.0002499
#3	.000443	-.009752	.0002233

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1034.854	30180.19	5634.731	914.9149	1941.316
Stddev	1.146	376.82	12.391	11.9740	5.138
%RSD	.1107154	1.248553	.2199075	1.308750	.2646738
#1	1034.168	30515.76	5637.104	925.6939	1941.246
#2	1034.218	29772.54	5621.325	902.0263	1936.213
#3	1036.177	30252.28	5645.764	917.0244	1946.489

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5



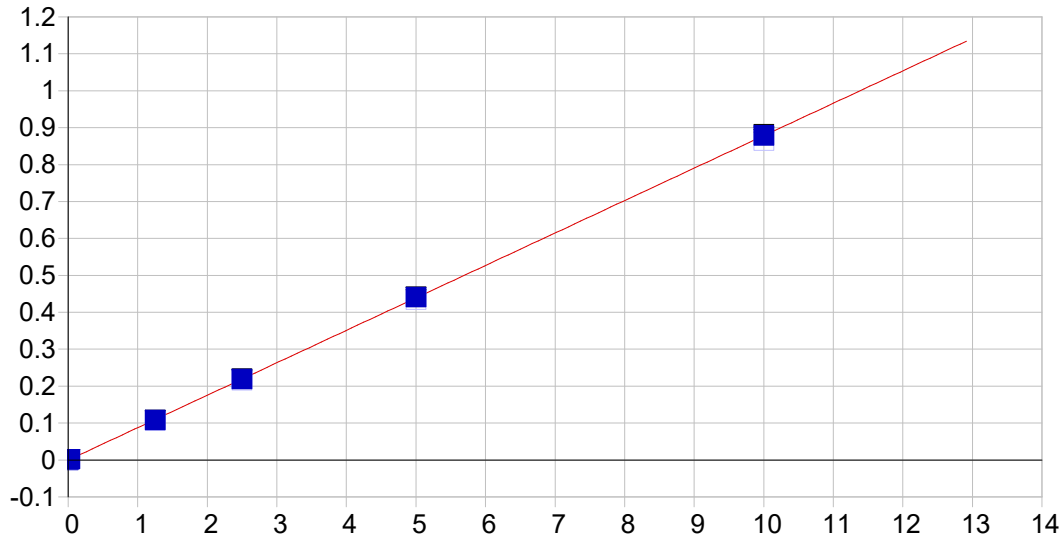
As 189.042 {478}

Date of Fit:	12/13/2024 12:00:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.433338	Re-Slope:	1.000000
A1 (Gain):	177.910618	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999711	Status:	OK.
Std Error of Est:	0.071441		
Predicted MDL:	0.004256		
Predicted MQL:	0.014187		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.43397	.404	1
S1	.01000	.01293	.003	29.3	1.8638	.759	1
S2	1.2500	1.2912	.041	3.30	228.35	.925	1
S3	2.5000	2.5830	.083	3.32	457.23	2.40	1
S4	5.0000	5.0830	.083	1.66	900.15	1.08	1
S5	10.000	9.7899	-.210	-2.10	1733.8	4.03	1

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5



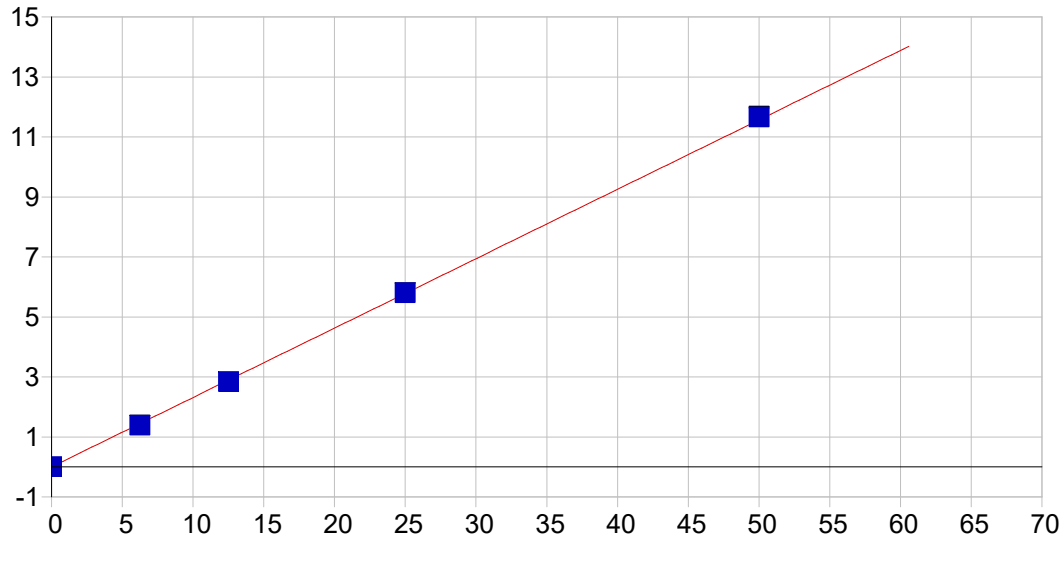
Tl 190.856 {477}

Date of Fit:	12/13/2024 12:00:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000296	Re-Slope:	1.000000
A1 (Gain):	0.087854	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999986	Status:	OK.
Std Error of Est:	0.000012		
Predicted MDL:	0.002471		
Predicted MQL:	0.008236		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00030	.000	1
S1	.02500	.02572	.001	2.86	.00188	.000	1
S2	1.2500	1.2286	-.021	-1.71	.10594	.001	1
S3	2.5000	2.4958	-.004	-.167	.21557	.001	1
S4	5.0000	5.0236	.024	.471	.43425	.000	1
S5	10.000	10.001	.001	.013	.86476	.003	1

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5



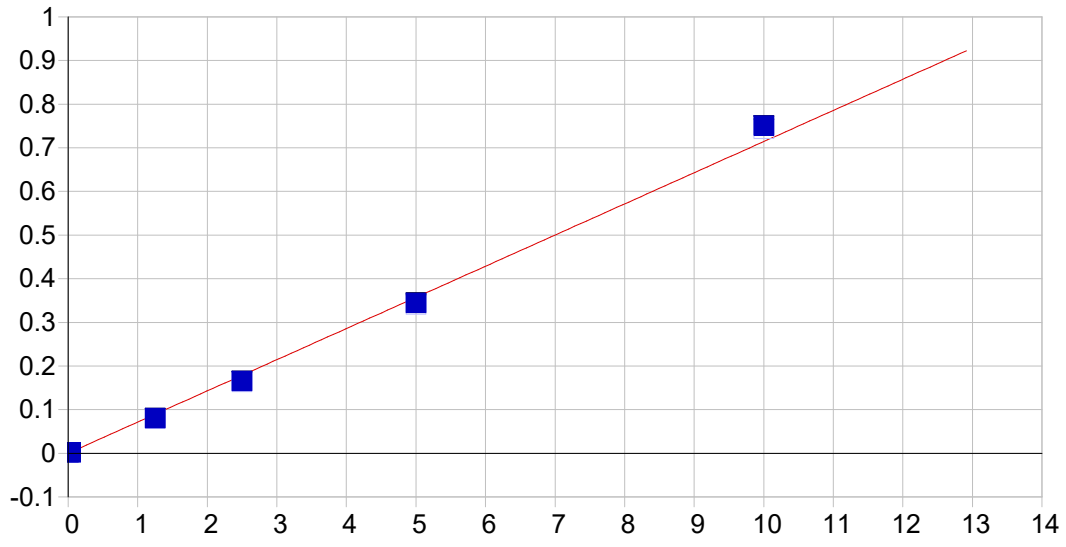
Pb 220.353 {453}

Date of Fit:	12/13/2024 12:00:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000222	Re-Slope:	1.000000
A1 (Gain):	0.231335	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999895	Status:	OK.
Std Error of Est:	0.000126		
Predicted MDL:	0.002135		
Predicted MQL:	0.007117		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00022	.000	1
S1	.01000	.00827	-.002	-17.3	.00212	.000	1
S2	6.2500	5.9837	-.266	-4.26	1.3831	.001	1
S3	12.500	12.269	-.231	-1.85	2.8357	.003	1
S4	25.000	25.081	.081	.324	5.7969	.005	1
S5	50.000	50.418	.418	.837	11.653	.026	1

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5



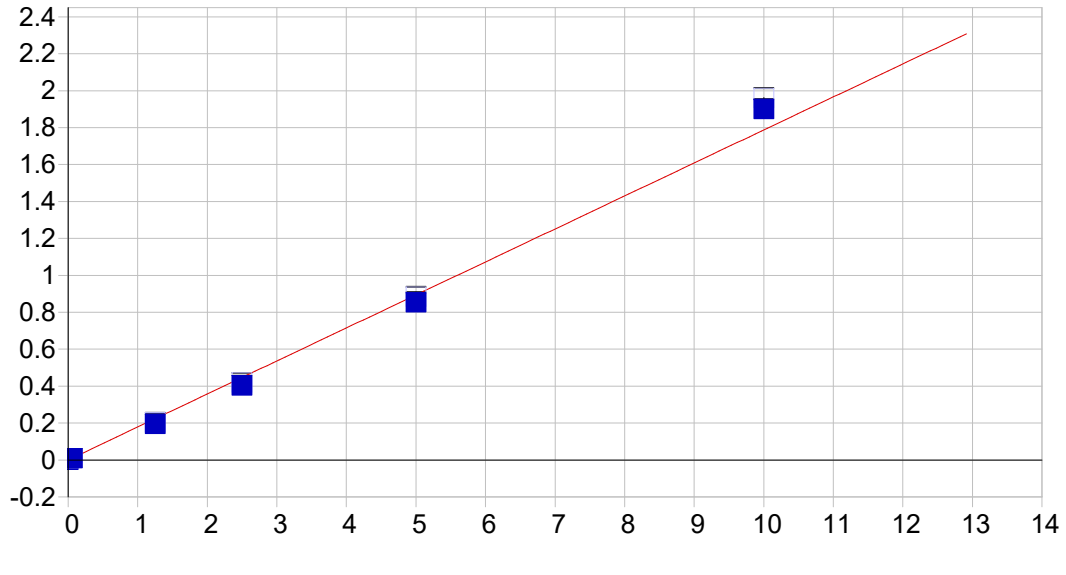
Se 196.090 {472}

Date of Fit:	12/13/2024 12:00:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000185	Re-Slope:	1.000000
A1 (Gain):	0.071410	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998311	Status:	OK.
Std Error of Est:	0.000129		
Predicted MDL:	0.004136		
Predicted MQL:	0.013785		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00019	.000	1
S1	.03500	.02623	-.009	-25.1	.00206	.000	1
S2	1.2500	1.1187	-.131	-10.5	.07913	.001	1
S3	2.5000	2.3108	-.189	-7.57	.16332	.001	1
S4	5.0000	4.8226	-.177	-3.55	.34082	.001	1
S5	10.000	10.507	.507	5.07	.74297	.000	1

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

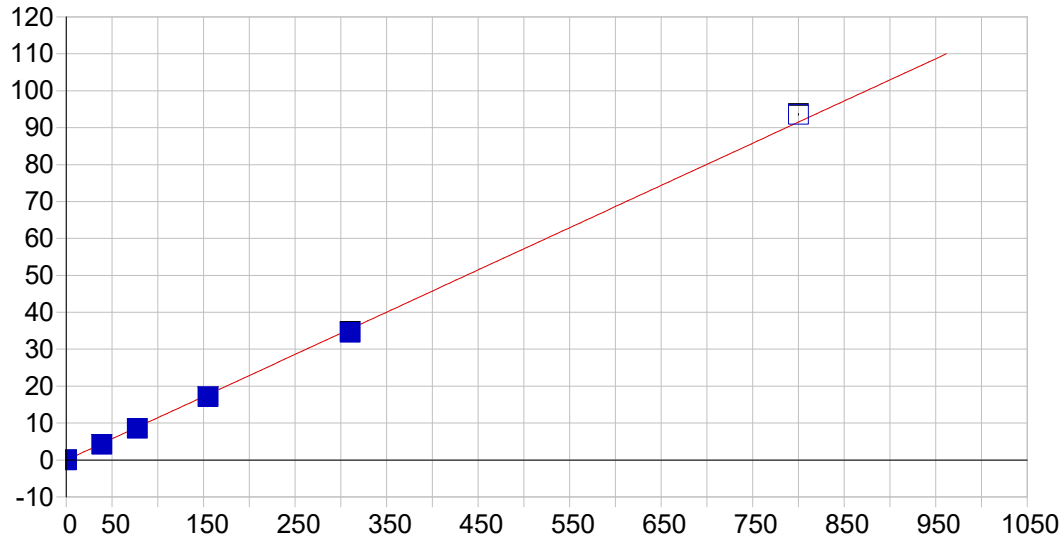


Sb 206.833 {463}

Date of Fit:	12/13/2024 12:00:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000261	Re-Slope:	1.000000
A1 (Gain):	0.178719	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.997660	Status:	OK.
Std Error of Est:	0.000520		
Predicted MDL:	0.002308		
Predicted MQL:	0.007695		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	.00026	.000	1
S1	.06000	.05200	-.008	-13.3	.00956	.000	1
S2	1.2500	1.0940	-.156	-12.5	.20324	.000	1
S3	2.5000	2.2563	-.244	-9.75	.41843	.001	1
S4	5.0000	4.7756	-.224	-4.49	.88362	.003	1
S5	10.000	10.632	.632	6.32	1.9601	.003	1



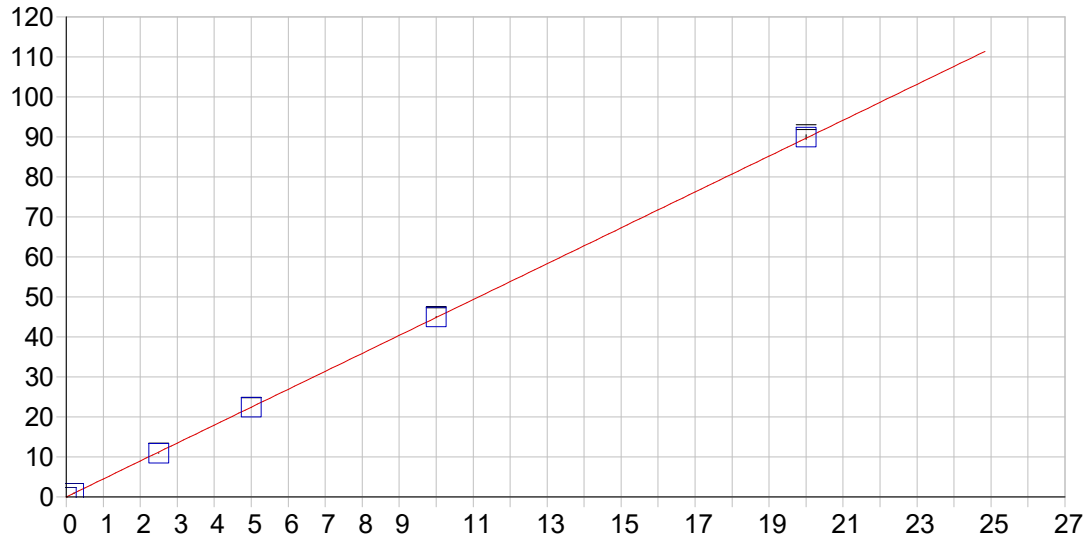
Al 396.152 { 85}

Date of Fit:	12/13/2024 12:00:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001247	Re-Slope:	1.000000
A1 (Gain):	0.114392	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999629	Status:	OK.
Std Error of Est:	0.001939		
Predicted MDL:	0.021525		
Predicted MQL:	0.071751		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00004	.000	.000	-.00124	.002	1
S1	.20000	.18492	-.015	-7.54	.01994	.002	1
S2	38.750	36.661	-2.09	-5.39	4.1973	.012	1
S3	77.500	74.643	-2.86	-3.69	8.5469	.020	1
S4	155.00	149.86	-5.14	-3.32	17.160	.059	1
S5	310.00	301.80	-8.20	-2.65	34.560	.208	1
S6	800.00	818.33	18.3	2.29	93.609	.214	1

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5



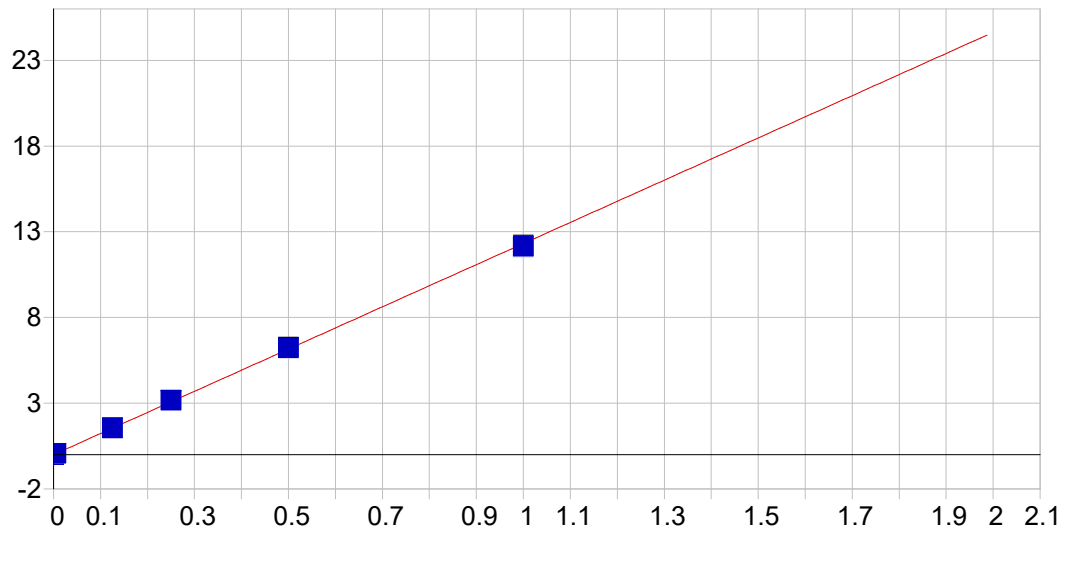
Ba 493.409 { 68}

Date of Fit:	12/13/2024 12:00:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.007200	Re-Slope:	1.000000
A1 (Gain):	4.483920	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999969	Status:	OK.
Std Error of Est:	0.003743		
Predicted MDL:	0.000989		
Predicted MQL:	0.003295		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00720	.003	1
S1	.20000	.20481	.005	2.40	.92554	.001	1
S2	2.5000	2.4296	-.070	-2.82	10.901	.036	1
S3	5.0000	4.9887	-.011	-.227	22.376	.063	1
S4	10.000	10.020	.020	.198	44.935	.146	1
S5	20.000	20.057	.057	.285	89.942	.585	1

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5



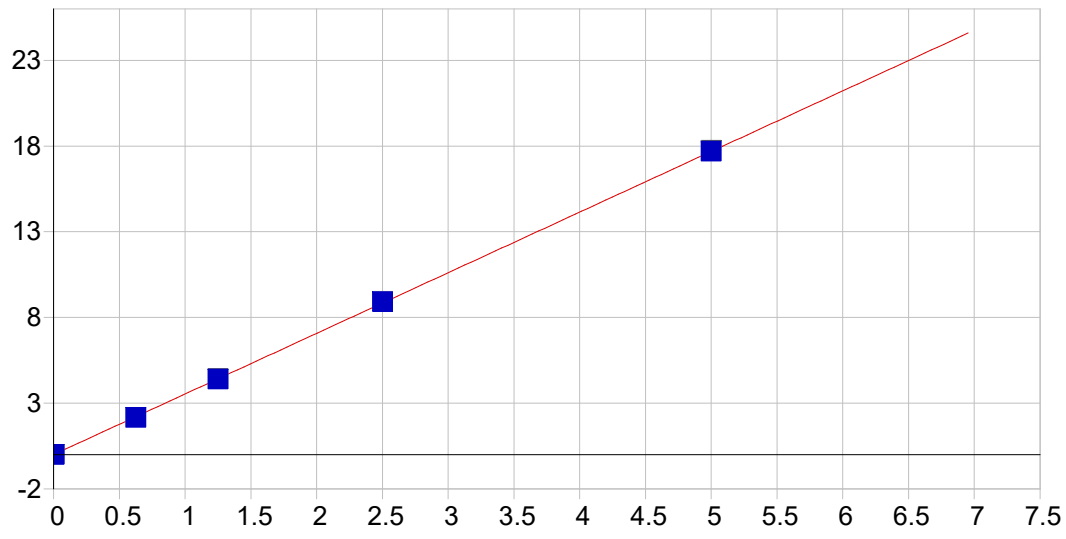
Be 234.861 {144}

Date of Fit:	12/13/2024 12:00:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001415	Re-Slope:	1.000000
A1 (Gain):	12.316497	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999874	Status:	OK.
Std Error of Est:	0.000732		
Predicted MDL:	0.000109		
Predicted MQL:	0.000363		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00142	.000	1
S1	.00500	.00524	.000	4.90	.06313	.000	1
S2	.12500	.12613	.001	.900	1.5449	.020	1
S3	.25000	.25693	.007	2.77	3.1489	.012	1
S4	.50000	.50562	.006	1.12	6.1978	.046	1
S5	1.0000	.98608	-.014	-1.39	12.087	.087	1

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5



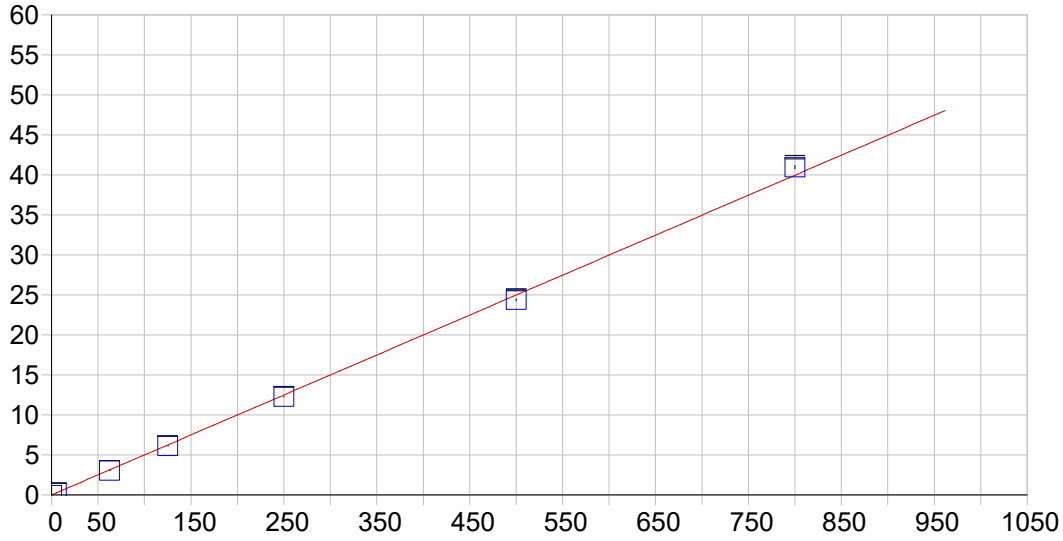
Cd 214.438 {457}

Date of Fit:	12/13/2024 12:00:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000174	Re-Slope:	1.000000
A1 (Gain):	3.536725	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999968	Status:	OK.
Std Error of Est:	0.000239		
Predicted MDL:	0.000093		
Predicted MQL:	0.000311		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00018	.000	1
S1	.00500	.00476	-.000	-4.82	.01707	.000	1
S2	.62500	.60928	-.016	-2.52	2.1584	.005	1
S3	1.2500	1.2437	-.006	-.503	4.4056	.005	1
S4	2.5000	2.5207	.021	.826	8.9286	.008	1
S5	5.0000	5.0016	.002	.032	17.717	.037	1

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5



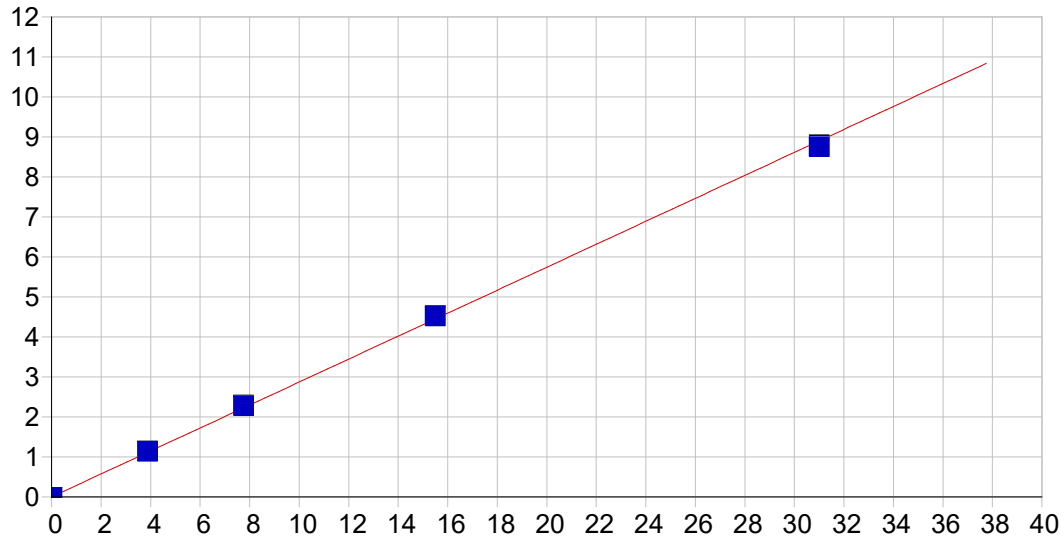
Ca 373.690 { 90}

Date of Fit:	12/13/2024 12:00:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.006986	Re-Slope:	1.000000
A1 (Gain):	0.049949	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999724	Status:	OK.
Std Error of Est:	0.004099		
Predicted MDL:	0.038572		
Predicted MQL:	0.128575		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00032	.000	.000	.00700	.001	1
S1	5.0000	5.0111	.011	.223	.25729	.004	1
S2	62.500	60.557	-1.94	-3.11	3.0318	.007	1
S3	125.00	122.62	-2.38	-1.90	6.1320	.003	1
S4	250.00	245.66	-4.34	-1.74	12.278	.025	1
S5	500.00	488.39	-11.6	-2.32	24.402	.125	1
S6	800.00	820.25	20.3	2.53	40.978	.226	1

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5



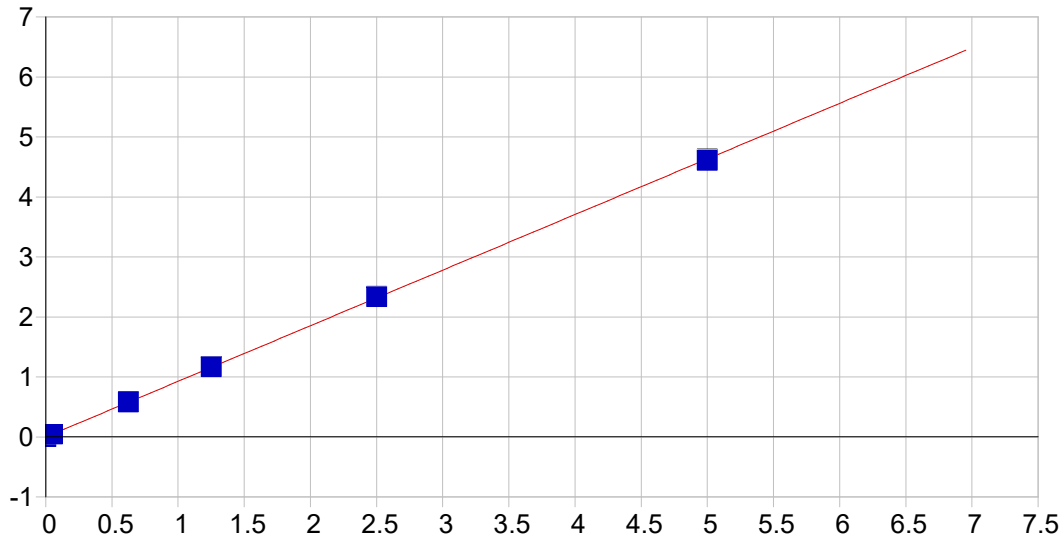
Cr 267.716 {126}

Date of Fit:	12/13/2024 12:00:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000325	Re-Slope:	1.000000
A1 (Gain):	0.287082	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999836	Status:	OK.
Std Error of Est:	0.000154		
Predicted MDL:	0.000786		
Predicted MQL:	0.002620		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00033	.000	1
S1	.01000	.00990	-.000	-.989	.00317	.000	1
S2	3.8750	3.9692	.094	2.43	1.1407	.004	1
S3	7.7500	7.9423	.192	2.48	2.2821	.011	1
S4	15.500	15.731	.231	1.49	4.5199	.011	1
S5	31.000	30.482	-.518	-1.67	8.7581	.044	1

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5



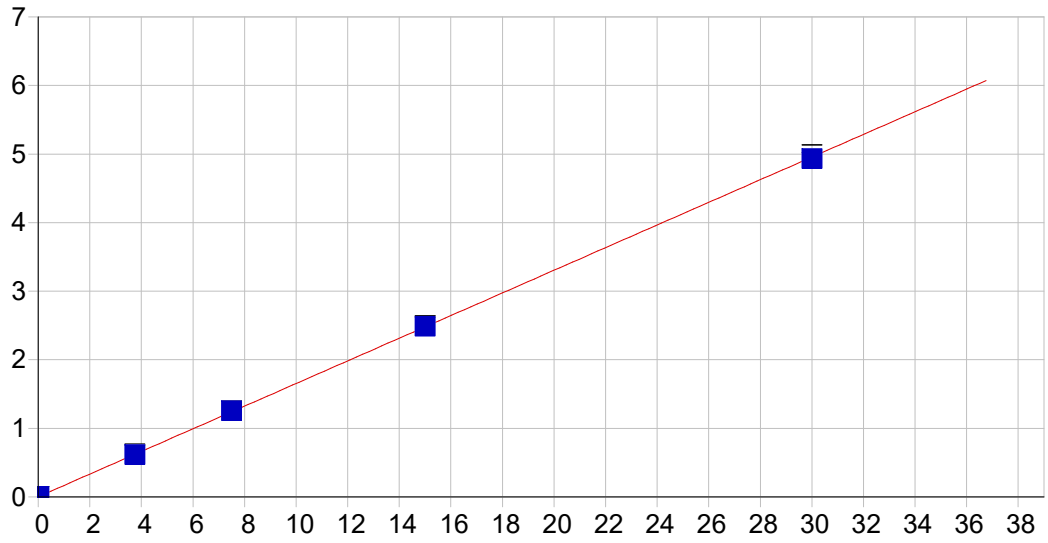
Co 228.616 {448}

Date of Fit:	12/13/2024 12:00:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000347	Re-Slope:	1.000000
A1 (Gain):	0.926704	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999981	Status:	OK.
Std Error of Est:	0.000151		
Predicted MDL:	0.000385		
Predicted MQL:	0.001285		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00035	.000	1
S1	.05000	.05076	.001	1.53	.04685	.001	1
S2	.62500	.62565	.001	.104	.58131	.001	1
S3	1.2500	1.2588	.009	.700	1.1699	.003	1
S4	2.5000	2.5177	.018	.706	2.3402	.002	1
S5	5.0000	4.9722	-.028	-.557	4.6223	.008	1

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5



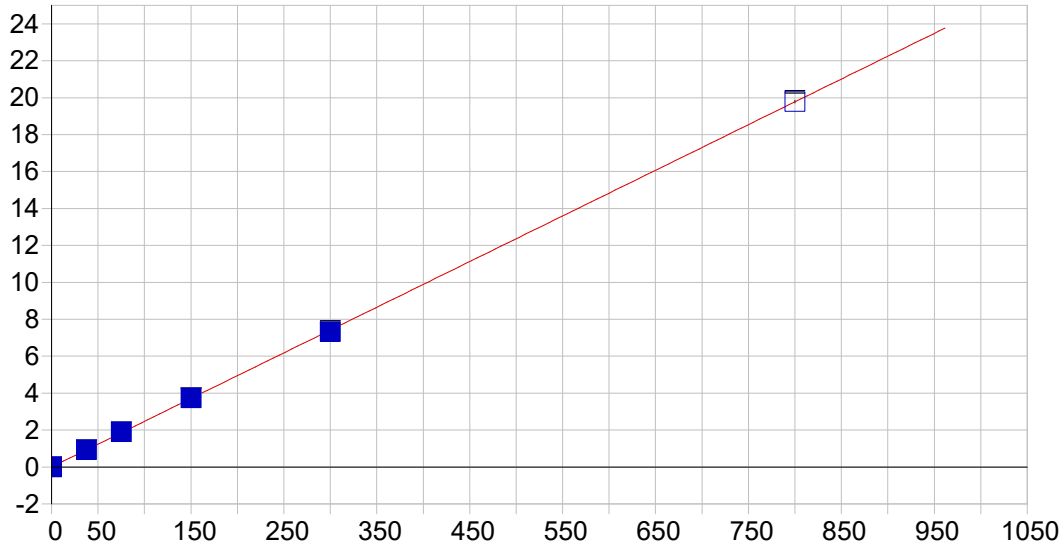
Cu 324.754 {104}

Date of Fit:	12/13/2024 12:00:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002480	Re-Slope:	1.000000
A1 (Gain):	0.165126	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999975	Status:	OK.
Std Error of Est:	0.000054		
Predicted MDL:	0.007437		
Predicted MQL:	0.024791		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00248	.001	1
S1	.02500	.02937	.004	17.5	.00733	.000	1
S2	3.7500	3.7284	-.022	-.577	.61806	.005	1
S3	7.5000	7.5899	.090	1.20	1.2556	.005	1
S4	15.000	15.062	.062	.411	2.4893	.009	1
S5	30.000	29.866	-.134	-.448	4.9335	.057	1

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5



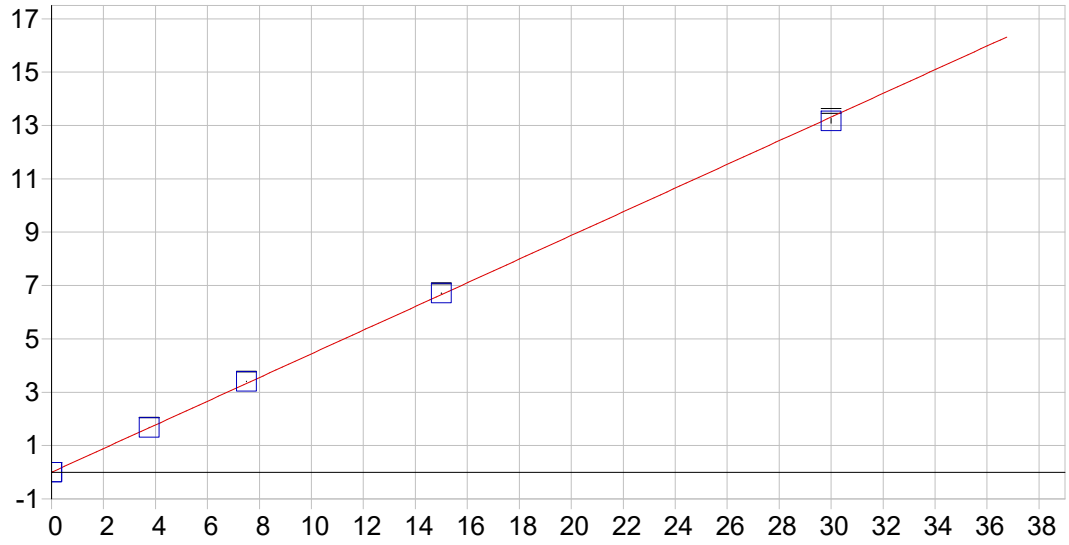
Fe 259.837 {130}

Date of Fit:	12/13/2024 12:00:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000175	Re-Slope:	1.000000
A1 (Gain):	0.024718	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999965	Status:	OK.
Std Error of Est:	0.000090		
Predicted MDL:	0.031201		
Predicted MQL:	0.104002		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00018	.001	1
S1	.10000	.08774	-.012	-12.3	.00234	.000	1
S2	37.500	37.618	.118	.316	.93022	.003	1
S3	75.000	76.578	1.58	2.10	1.8934	.010	1
S4	150.00	151.39	1.39	.924	3.7429	.012	1
S5	300.00	296.30	-3.70	-1.23	7.3256	.052	1
S6	800.00	800.63	.633	.079	19.790	.070	1

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5



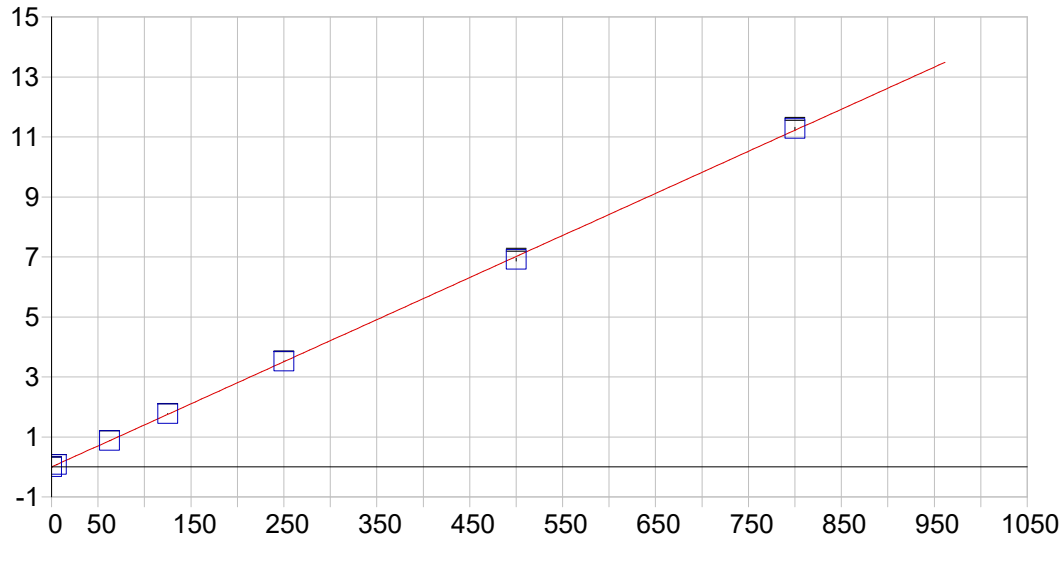
Mn 257.610 {131}

Date of Fit:	12/13/2024 12:00:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000333	Re-Slope:	1.000000
A1 (Gain):	0.443879	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999923	Status:	OK.
Std Error of Est:	0.000196		
Predicted MDL:	0.001440		
Predicted MQL:	0.004801		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00033	.000	1
S1	.01500	.01679	.002	11.9	.00712	.001	1
S2	3.7500	3.7840	.034	.906	1.6793	.005	1
S3	7.5000	7.6698	.170	2.26	3.4041	.013	1
S4	15.000	15.116	.116	.773	6.7093	.017	1
S5	30.000	29.678	-.322	-1.07	13.173	.088	1

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5



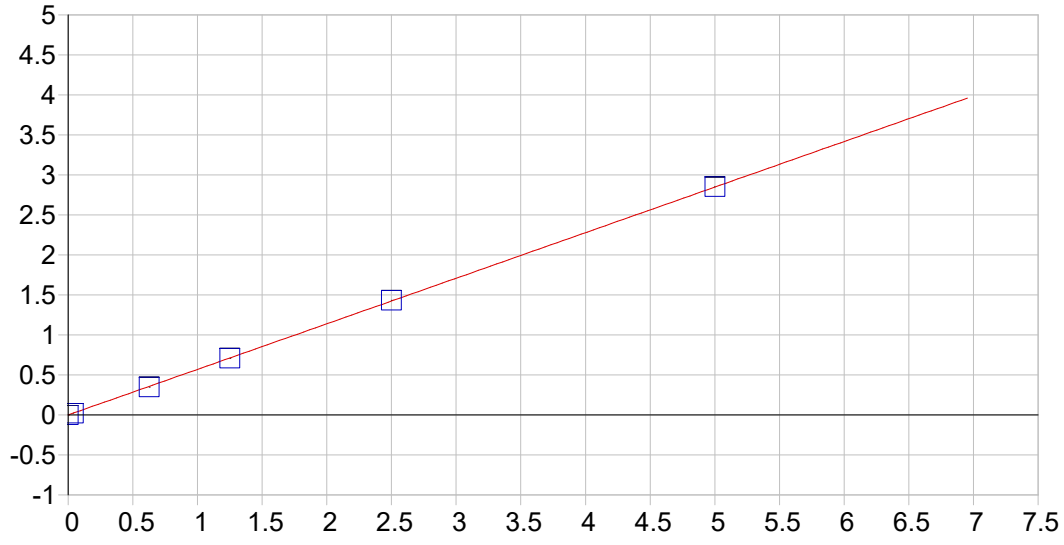
Mg 279.079 {121}

Date of Fit:	12/13/2024 12:00:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001611	Re-Slope:	1.000000
A1 (Gain):	0.014029	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999953	Status:	OK.
Std Error of Est:	0.000477		
Predicted MDL:	0.062027		
Predicted MQL:	0.206757		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00037	-.000	.000	-.00162	.000	1
S1	5.0000	5.3123	.312	6.25	.07291	.001	1
S2	62.500	62.706	.206	.330	.87808	.004	1
S3	125.00	126.76	1.76	1.40	1.7766	.005	1
S4	250.00	251.06	1.06	.424	3.5204	.008	1
S5	500.00	492.97	-7.03	-1.41	6.9142	.048	1
S6	800.00	803.69	3.69	.462	11.273	.050	1

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5



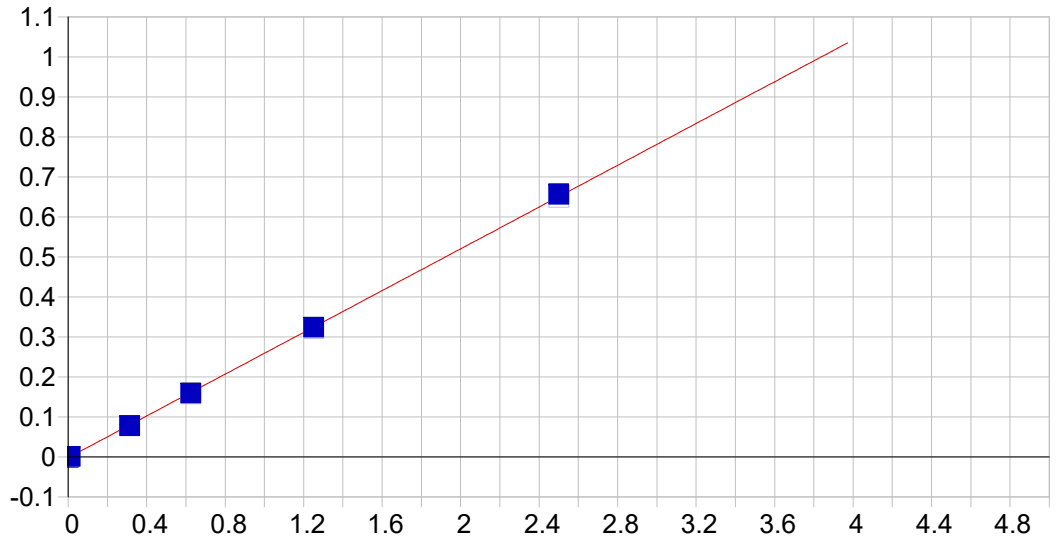
Ni 231.604 {446}

Date of Fit:	12/13/2024 12:00:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000258	Re-Slope:	1.000000
A1 (Gain):	0.569559	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999969	Status:	OK.
Std Error of Est:	0.000106		
Predicted MDL:	0.000655		
Predicted MQL:	0.002183		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00026	.000	1
S1	.04000	.03874	-.001	-3.16	.02181	.000	1
S2	.62500	.60939	-.016	-2.50	.34683	.001	1
S3	1.2500	1.2432	-.007	-.543	.70782	.002	1
S4	2.5000	2.5161	.016	.643	1.4328	.001	1
S5	5.0000	5.0076	.008	.152	2.8519	.004	1

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5



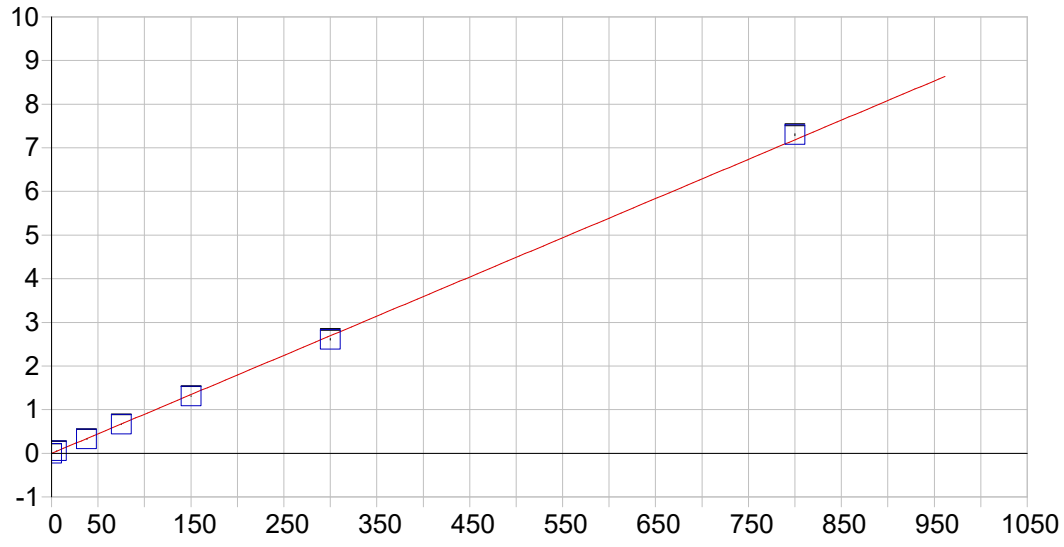
Ag 328.068 {103}

Date of Fit:	12/13/2024 12:00:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001984	Re-Slope:	1.000000
A1 (Gain):	0.261098	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999951	Status:	OK.
Std Error of Est:	0.000021		
Predicted MDL:	0.001200		
Predicted MQL:	0.004000		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00198	.000	1
S1	.01000	.00961	-.000	-3.87	.00052	.000	1
S2	.31250	.30498	-.008	-2.41	.07667	.000	1
S3	.62500	.61691	-.008	-1.29	.15713	.000	1
S4	1.2500	1.2472	-.003	-.226	.31973	.001	1
S5	2.5000	2.5188	.019	.753	.64784	.002	1

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5



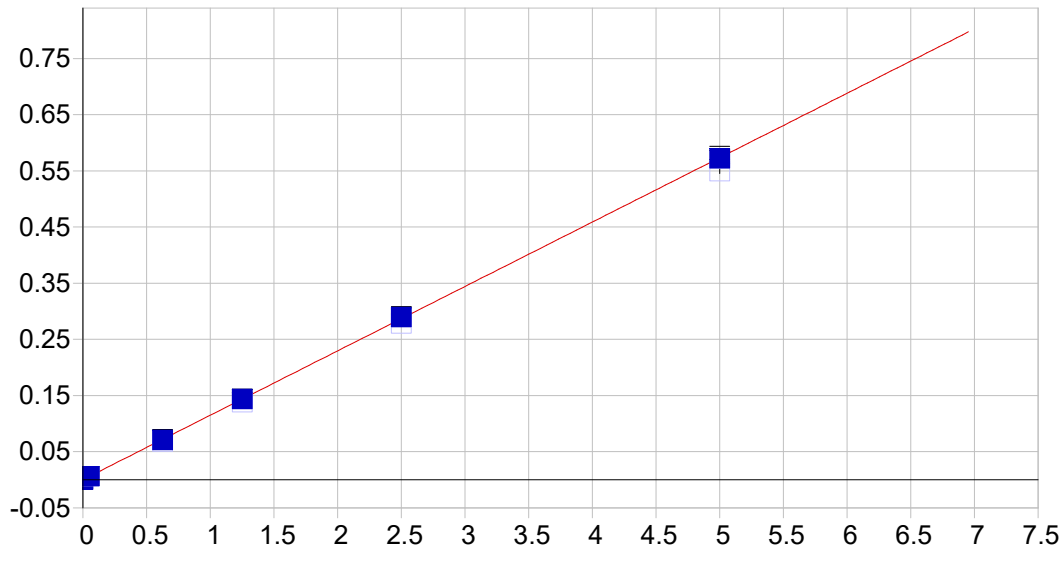
Na 818.326 { 41}

Date of Fit:	12/13/2024 12:00:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.003609	Re-Slope:	1.000000
A1 (Gain):	0.008986	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999643	Status:	OK.
Std Error of Est:	0.000743		
Predicted MDL:	0.608237		
Predicted MQL:	2.027456		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00102	-.001	.000	-.00362	.006	1
S1	5.0000	6.3542	1.35	27.1	.05349	.006	1
S2	37.500	36.853	-.647	-1.73	.32754	.003	1
S3	75.000	74.360	-.640	-.853	.66457	.006	1
S4	150.00	146.15	-3.85	-2.56	1.3097	.005	1
S5	300.00	290.77	-9.23	-3.08	2.6091	.019	1
S6	800.00	813.01	13.0	1.63	7.3019	.025	1

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5



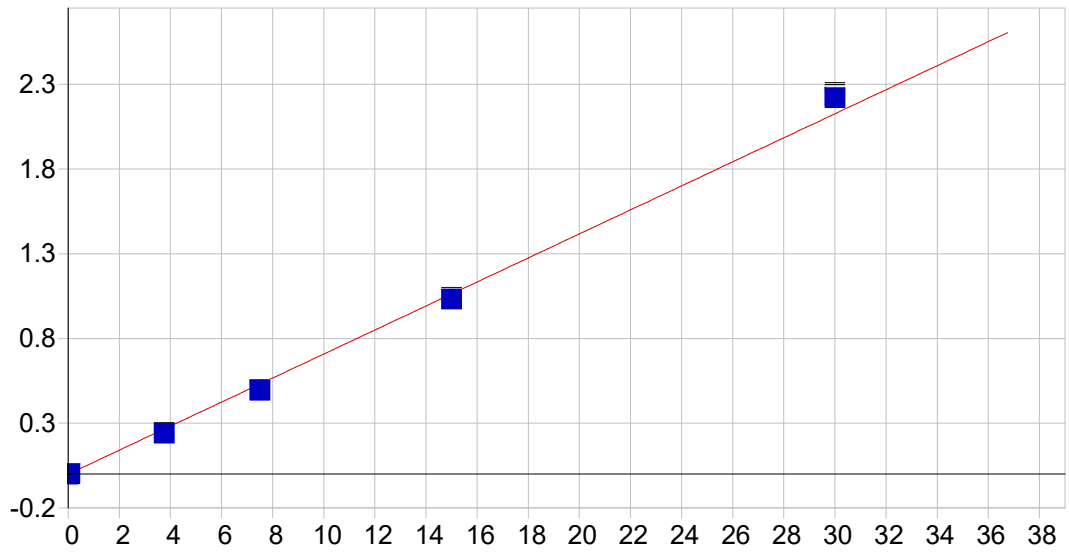
V 292.402 {115}

Date of Fit:	12/13/2024 12:00:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000310	Re-Slope:	1.000000
A1 (Gain):	0.114665	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999970	Status:	OK.
Std Error of Est:	0.000023		
Predicted MDL:	0.008378		
Predicted MQL:	0.027928		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00031	.001	1
S1	.05000	.05172	.002	3.45	.00622	.000	1
S2	.62500	.61283	-.012	-1.95	.06771	.001	1
S3	1.2500	1.2491	-.001	-.072	.13779	.000	1
S4	2.5000	2.5227	.023	.907	.27808	.001	1
S5	5.0000	4.9886	-.011	-.228	.54935	.004	1

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5



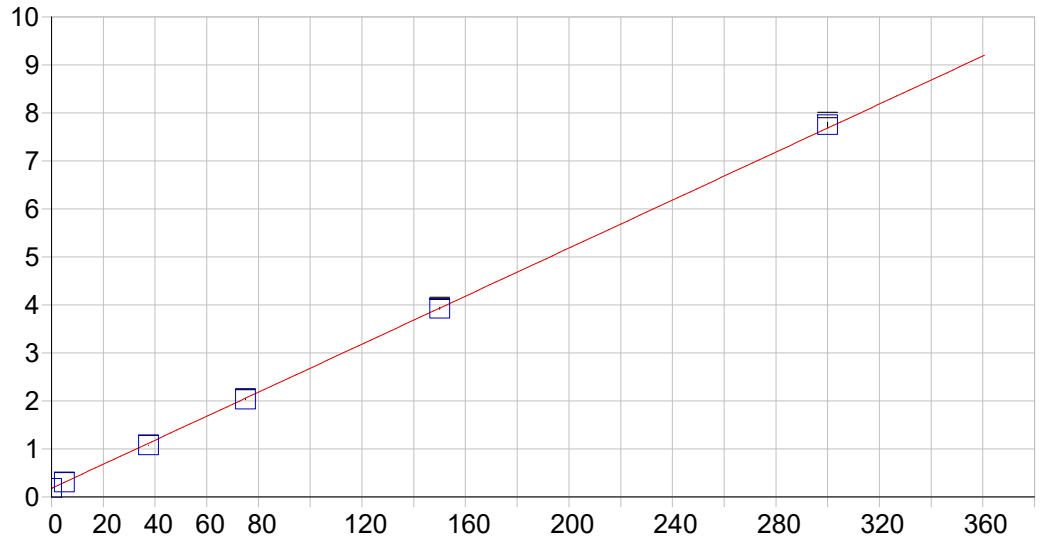
Zn 213.856 {158}

Date of Fit:	12/13/2024 12:00:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000973	Re-Slope:	1.000000
A1 (Gain):	0.070908	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998692	Status:	OK.
Std Error of Est:	0.000260		
Predicted MDL:	0.007531		
Predicted MQL:	0.025103		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	-.00097	.000	1
S1	.06000	.04974	-.010	-17.1	.00257	.001	1
S2	3.7500	3.3870	-.363	-9.68	.24049	.003	1
S3	7.5000	6.9657	-.534	-7.12	.49555	.003	1
S4	15.000	14.556	-.444	-2.96	1.0364	.006	1
S5	30.000	31.352	1.35	4.51	2.2325	.019	1

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5



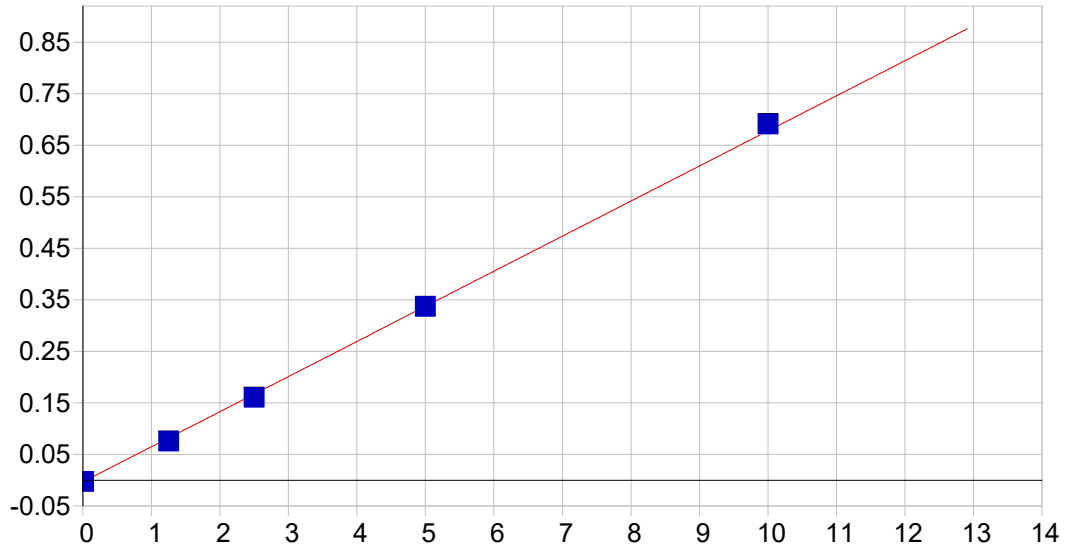
K 769.896 { 44}

Date of Fit:	12/13/2024 12:00:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.180518	Re-Slope:	1.000000
A1 (Gain):	0.025012	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999906	Status:	OK.
Std Error of Est:	0.000709		
Predicted MDL:	0.161071		
Predicted MQL:	0.536904		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00030	.000	.000	.18053	.003	1
S1	5.0000	4.9410	-.059	-1.18	.30410	.003	1
S2	37.500	35.841	-1.66	-4.42	1.0770	.006	1
S3	75.000	74.168	-.832	-1.11	2.0356	.011	1
S4	150.00	149.88	-.123	-.082	3.9292	.021	1
S5	300.00	302.67	2.67	.891	7.7509	.055	1

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5



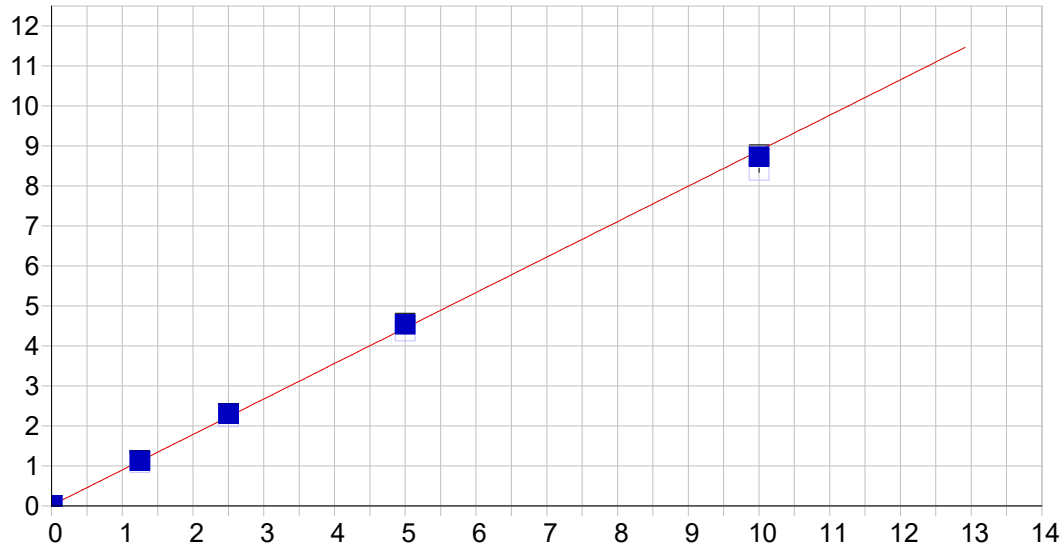
P 177.495 {490}

Date of Fit:	12/13/2024 12:00:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.003168	Re-Slope:	1.000000
A1 (Gain):	0.068100	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999585	Status:	OK.
Std Error of Est:	0.000033		
Predicted MDL:	0.002270		
Predicted MQL:	0.007568		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00317	.000	1
S1	.01000	.00685	-.003	-31.5	-.00270	.000	1
S2	1.2500	1.1546	-.095	-7.64	.07533	.000	1
S3	2.5000	2.4084	-.092	-3.66	.16060	.000	1
S4	5.0000	4.9925	-.007	-.149	.33633	.001	1
S5	10.000	10.198	.198	1.98	.69030	.001	1

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5



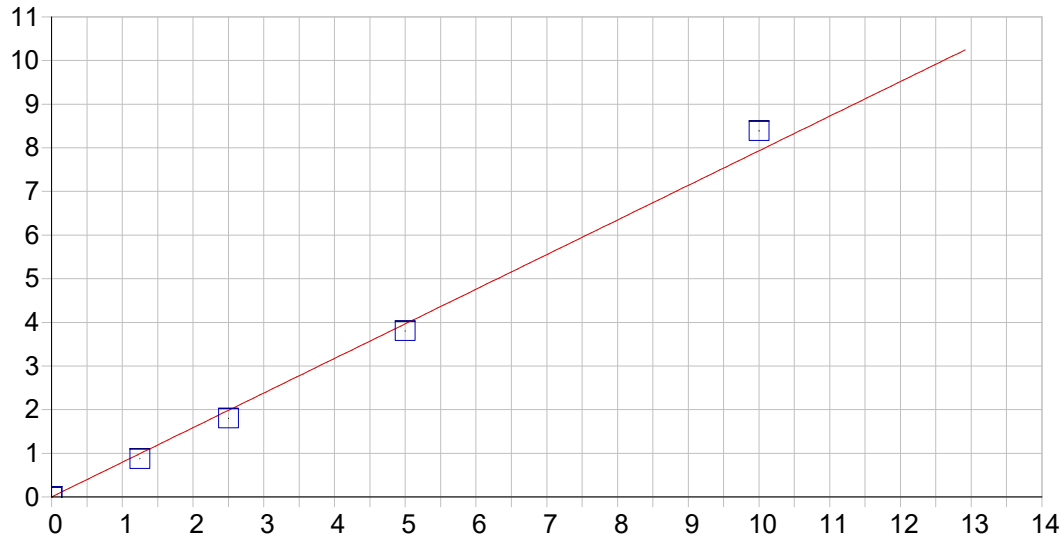
B 249.678 {135}

Date of Fit:	12/13/2024 12:00:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.012960	Re-Slope:	1.000000
A1 (Gain):	0.887014	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998999	Status:	OK.
Std Error of Est:	0.000641		
Predicted MDL:	0.001909		
Predicted MQL:	0.006363		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	.01297	.001	1
S1	.01000	-.00630	-.016	-163.	.00732	.001	1
S2	1.2500	1.2546	.005	.366	1.0836	.011	1
S3	2.5000	2.5879	.088	3.52	2.2241	.005	1
S4	5.0000	5.1002	.100	2.00	4.3682	.033	1
S5	10.000	9.8242	-.176	-1.76	8.3899	.052	1

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5



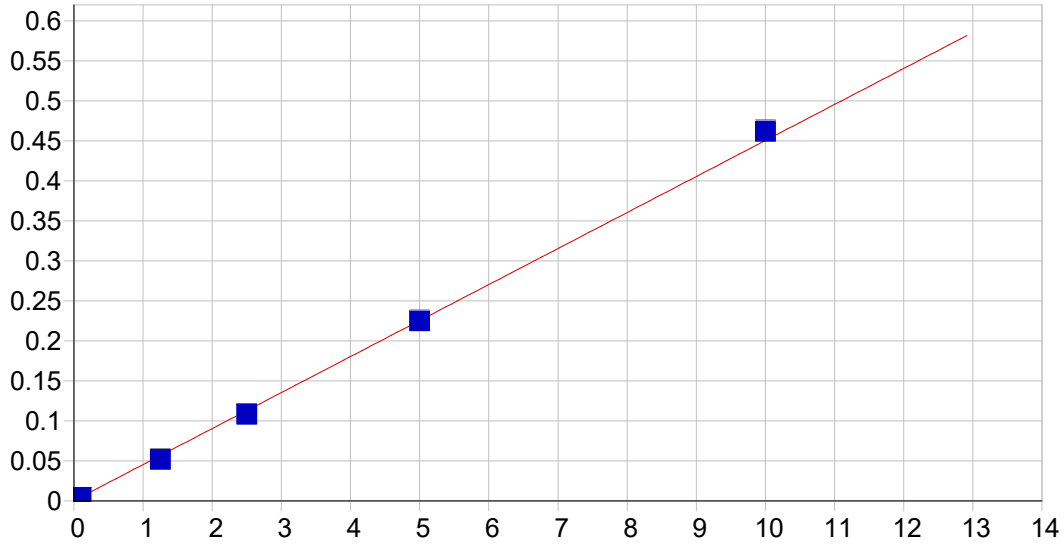
Mo 202.030 {467}

Date of Fit:	12/13/2024 12:00:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000404	Re-Slope:	1.000000
A1 (Gain):	0.793174	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.997876	Status:	OK.
Std Error of Est:	0.000868		
Predicted MDL:	0.000423		
Predicted MQL:	0.001409		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00041	.000	1
S1	.01000	.00901	-.001	-9.90	.00755	.000	1
S2	1.2500	1.1036	-.146	-11.7	.87575	.001	1
S3	2.5000	2.2713	-.229	-9.15	1.8019	.002	1
S4	5.0000	4.7971	-.203	-4.06	3.8053	.004	1
S5	10.000	10.579	.579	5.79	8.3914	.009	1

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5



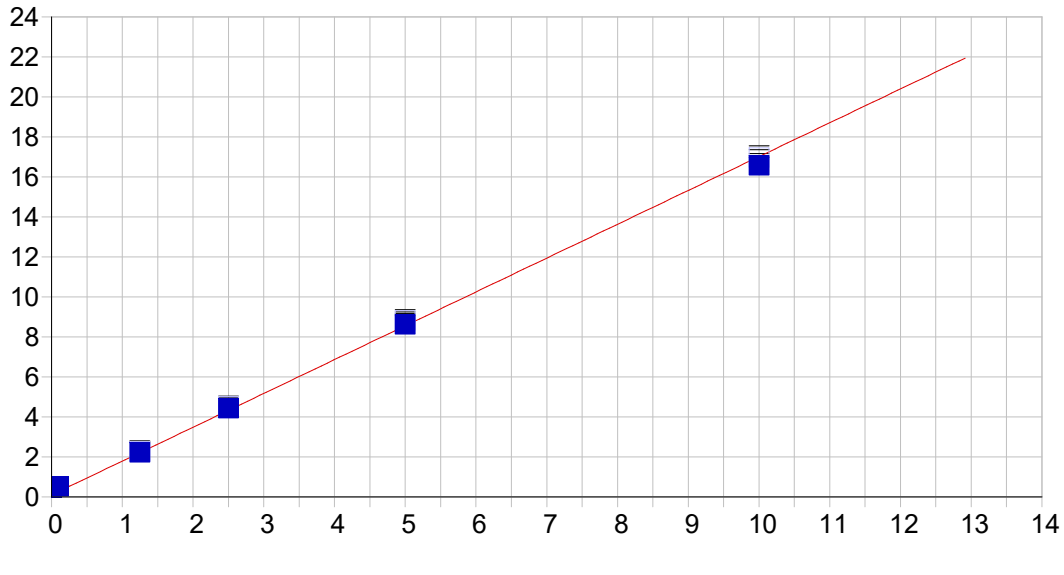
S 182.034 {485}

Date of Fit:	12/13/2024 12:00:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000466	Re-Slope:	1.000000
A1 (Gain):	0.045004	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999418	Status:	OK.
Std Error of Est:	0.000082		
Predicted MDL:	0.004015		
Predicted MQL:	0.013383		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	.00047	.000	1
S1	.10000	.08877	-.011	-11.2	.00446	.000	1
S2	1.2500	1.1388	-.111	-8.90	.05190	.000	1
S3	2.5000	2.3893	-.111	-4.43	.10835	.000	1
S4	5.0000	4.9880	-.012	-.240	.22567	.000	1
S5	10.000	10.245	.245	2.45	.46298	.001	1

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5



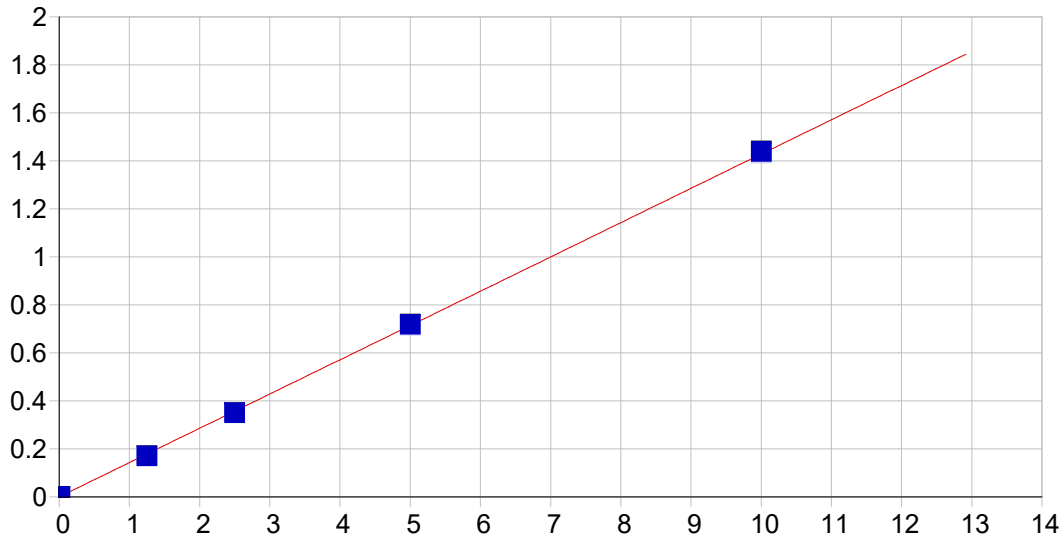
Si 251.611 {134}

Date of Fit:	12/13/2024 12:00:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.097402	Re-Slope:	1.000000
A1 (Gain):	1.691746	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.993900	Status:	OK.
Std Error of Est:	0.010201		
Predicted MDL:	0.000947		
Predicted MQL:	0.003157		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00015	-.000	.000	.09714	.001	1
S1	.10000	.25292	.153	153.	.52768	.003	1
S2	1.2500	1.2608	.011	.864	2.2784	.026	1
S3	2.5000	2.5613	.061	2.45	4.5264	.019	1
S4	5.0000	5.0360	.036	.720	8.8090	.062	1
S5	10.000	9.7403	-.260	-2.60	16.960	.102	1

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

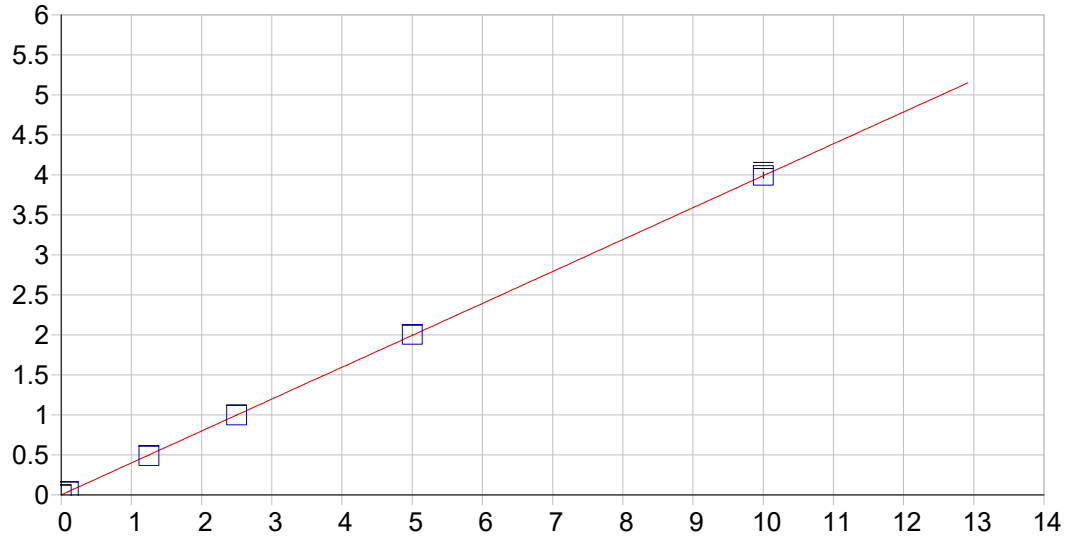


Sn 189.989 {478}

Date of Fit:	12/13/2024 12:00:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000178	Re-Slope:	1.000000
A1 (Gain):	0.142809	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999882	Status:	OK.
Std Error of Est:	0.000031		
Predicted MDL:	0.001161		
Predicted MQL:	0.003870		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00018	.000	1
S1	.00700	.00625	-.001	-10.7	.00103	.000	1
S2	1.2500	1.1906	-.059	-4.76	.16931	.000	1
S3	2.5000	2.4566	-.043	-1.74	.34922	.000	1
S4	5.0000	5.0293	.029	.585	.71483	.001	1
S5	10.000	10.074	.074	.743	1.4317	.003	1



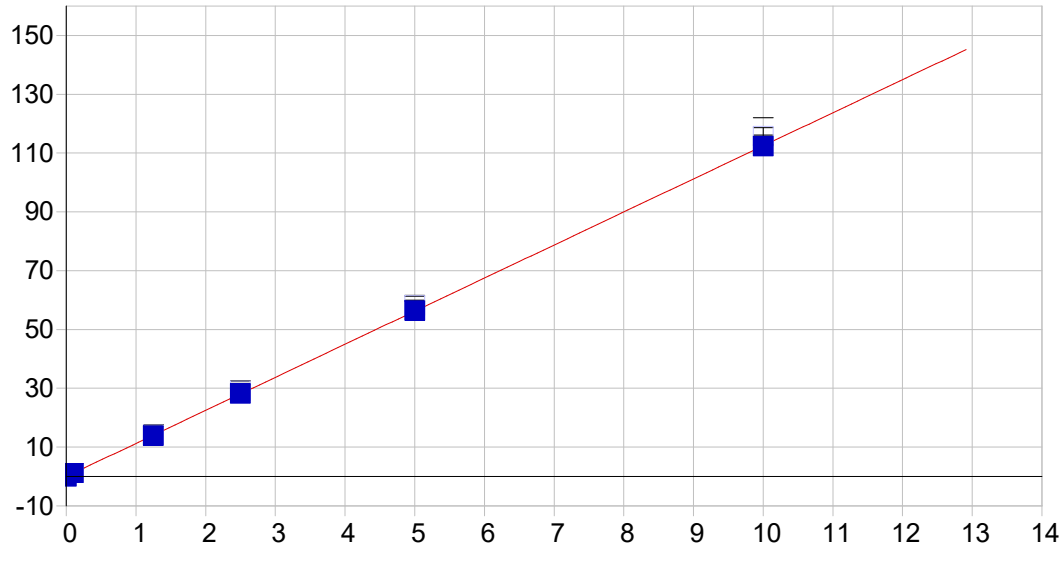
Ti 336.121 {100}

Date of Fit:	12/13/2024 12:00:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001097	Re-Slope:	1.000000
A1 (Gain):	0.398778	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999981	Status:	OK.
Std Error of Est:	0.000130		
Predicted MDL:	0.003541		
Predicted MQL:	0.011804		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00110	.001	1
S1	.10000	.09873	-.001	-1.27	.04047	.000	1
S2	1.2500	1.2223	-.028	-2.22	.48851	.002	1
S3	2.5000	2.4988	-.001	-.048	.99756	.002	1
S4	5.0000	5.0181	.018	.363	2.0022	.002	1
S5	10.000	10.012	.012	.121	3.9937	.038	1

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5



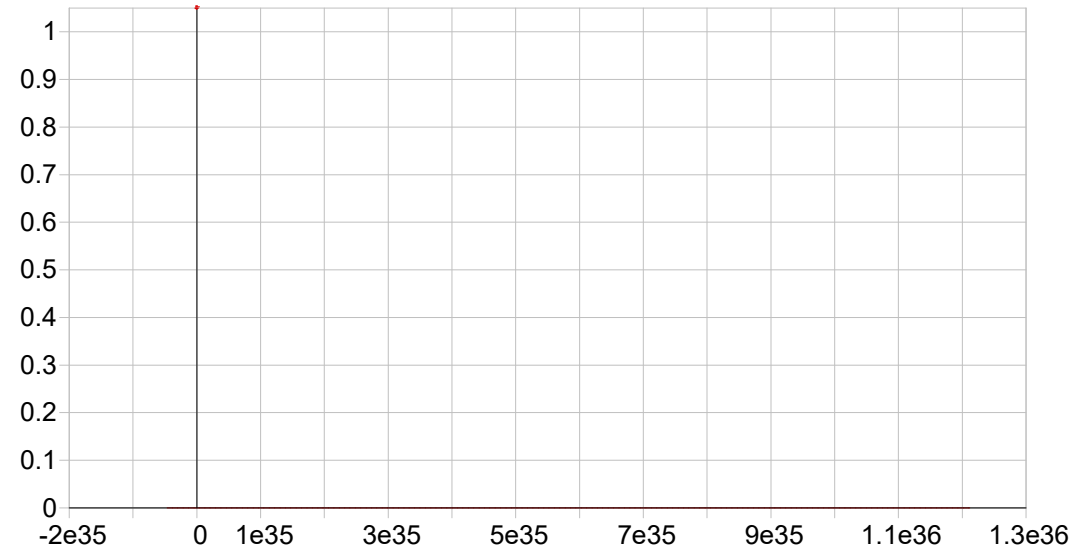
Sr 407.771 { 83}

Date of Fit:	12/13/2024 12:00:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.004133	Re-Slope:	1.000000
A1 (Gain):	11.247076	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999978	Status:	OK.
Std Error of Est:	0.004039		
Predicted MDL:	0.000211		
Predicted MQL:	0.000704		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00418	.002	1
S1	.10000	.10553	.006	5.53	1.1839	.001	1
S2	1.2500	1.2264	-.024	-1.89	14.211	.072	1
S3	2.5000	2.5102	.010	.407	29.071	.110	1
S4	5.0000	5.0171	.017	.341	58.110	.158	1
S5	10.000	9.9910	-.009	-.090	115.74	2.93	1

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

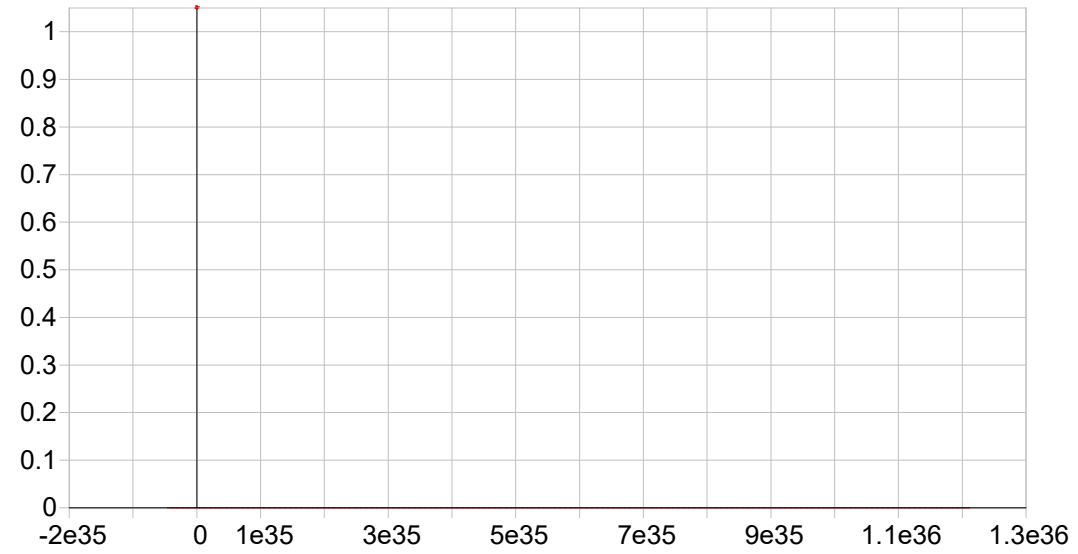


Y 224.306 {450}*

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 360.073 { 94}*

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

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

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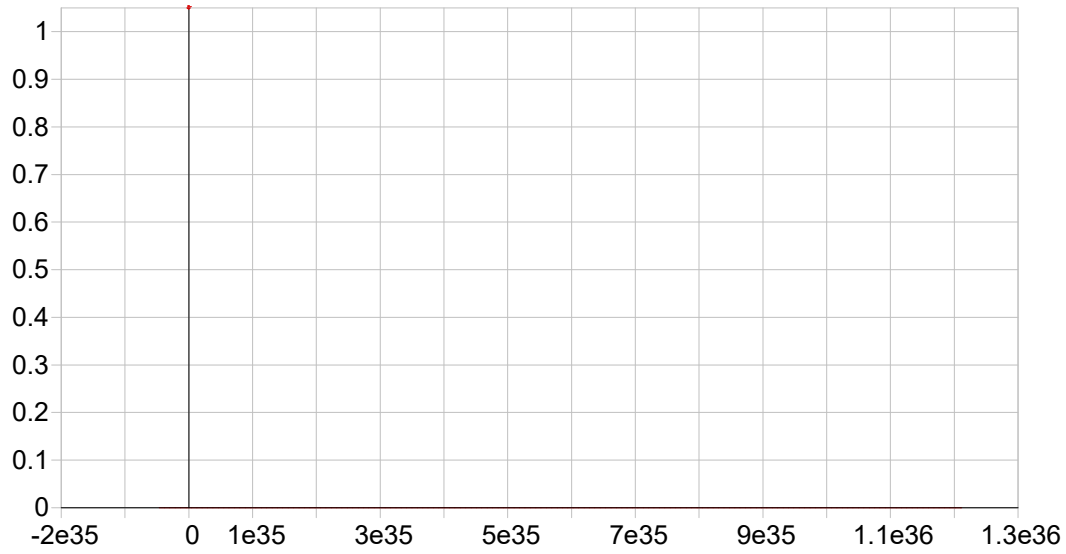
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000	Status:	Warning	Zero Gain	
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

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



Y 371.030 { 91}*

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

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

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

Reviewed By:Mohan
On:12/16/2024
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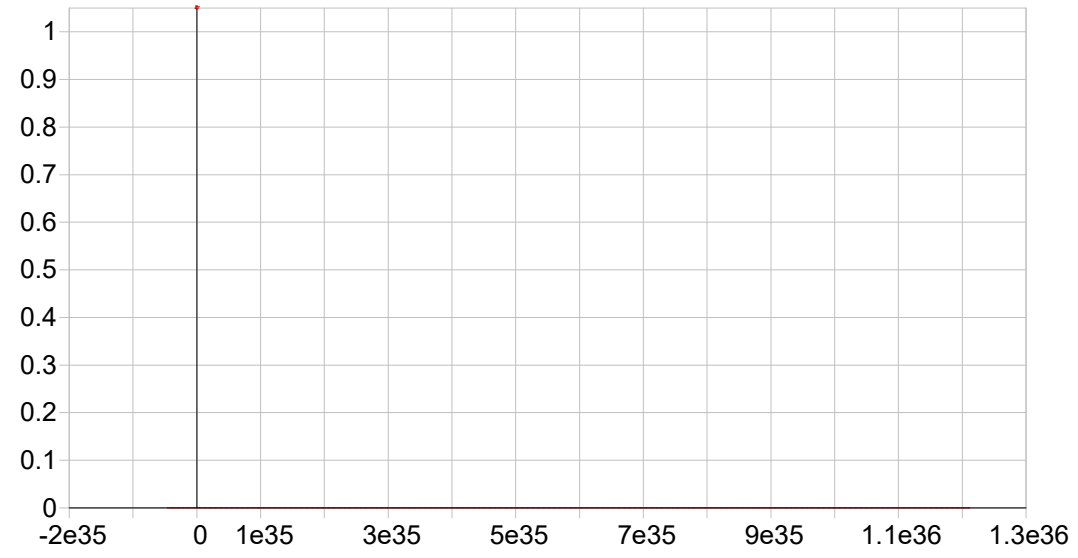
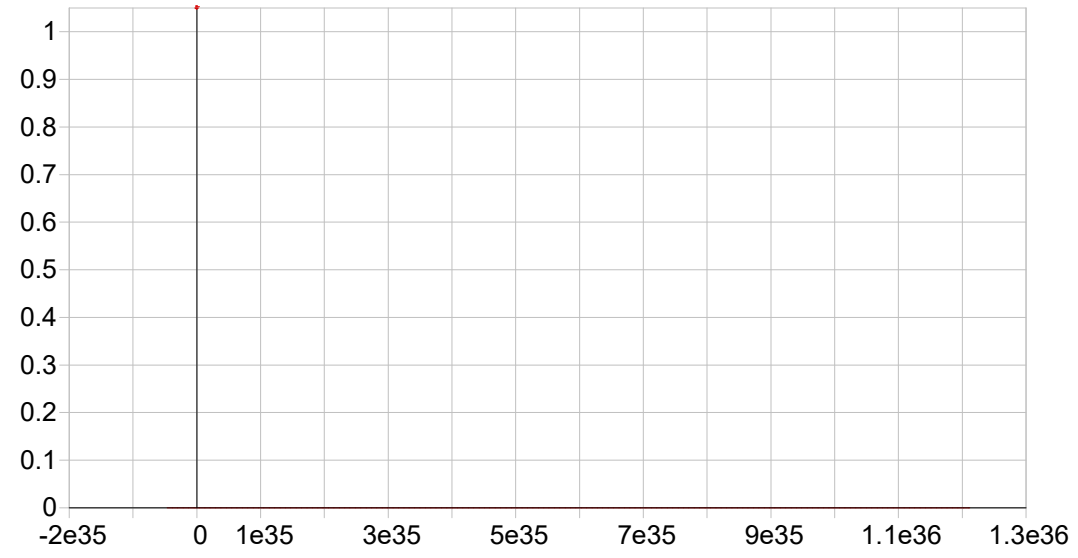


Y 224.306 {150}*

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:12/16/2024
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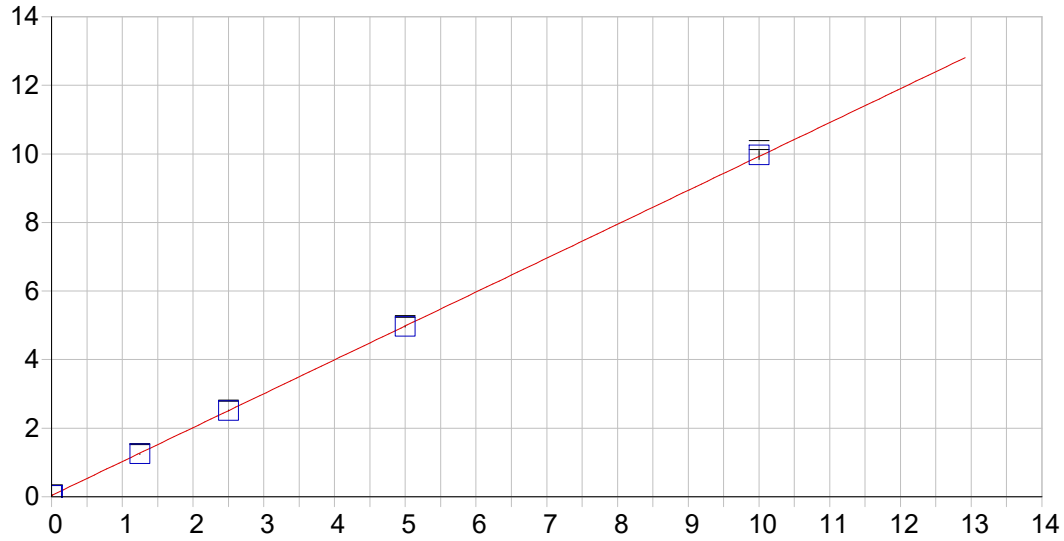
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000	Status:	Warning	Zero Gain	
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

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



Li 670.784 { 50}

Date of Fit:	12/13/2024 12:00:28	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.038365	Re-Slope:	1.000000
A1 (Gain):	0.988674	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999891	Status:	OK.
Std Error of Est:	0.000300		
Predicted MDL:	0.004887		
Predicted MQL:	0.016289		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.03837	.004	1
S5	10.000	10.046	.046	.461	9.9706	.130	1
S4	5.0000	4.9844	-.016	-.311	4.9663	.023	1
S3	2.5000	2.5040	.004	.161	2.5140	.017	1
S2	1.2500	1.2224	-.028	-2.21	1.2469	.013	1
S1	.01500	.00806	-.007	-46.3	.04633	.008	1

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: S0 Acquired: 12/13/2024 11:23:34 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) 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	-.43397	-.00030	.00022	.00019	.00026	-.00124	.00720	-.00142
Stddev	.40424	.00013	.00024	.00026	.00028	.00220	.00322	.00032
%RSD	93.150	43.123	106.22	141.32	106.12	177.40	44.662	22.460
#1	.02750	-.00019	.00049	.00049	.00014	-.00378	.00684	-.00106
#2	-.60390	-.00044	.00013	.00003	.00007	.00010	.00418	-.00155
#3	-.72551	-.00027	.00005	.00004	.00059	-.00004	.01058	-.00165

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	.00018	.00700	.00033	-.00035	.00248	.00018	-.00033	-.00162
Stddev	.00019	.00083	.00022	.00016	.00064	.00105	.00048	.00038
%RSD	109.90	11.908	68.783	45.181	25.959	600.29	143.70	23.374
#1	.00007	.00655	.00008	-.00031	.00305	-.00099	-.00083	-.00200
#2	.00040	.00796	.00051	-.00022	.00178	.00048	.00013	-.00161
#3	.00006	.00649	.00039	-.00052	.00261	.00104	-.00031	-.00124

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	-.00026	-.00198	-.00362	.00031	-.00097	.18053	-.00317	.01297
Stddev	.00024	.00015	.00635	.00062	.00006	.00338	.00004	.00118
%RSD	95.036	7.5467	175.40	201.81	6.5136	1.8739	1.2668	9.1227
#1	-.00049	-.00209	-.01089	.00023	-.00090	.18088	-.00313	.01274
#2	-.00000	-.00205	.00082	.00097	-.00101	.17698	-.00321	.01193
#3	-.00028	-.00181	-.00079	-.00027	-.00101	.18372	-.00316	.01426

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00041	.00047	.09714	.00018	.00110	-.00418	.03837
Stddev	.00024	.00023	.00126	.00012	.00109	.00171	.00403
%RSD	58.827	49.596	1.2973	68.795	99.497	40.822	10.503
#1	.00067	.00072	.09570	.00005	.00047	-.00603	.04249
#2	.00020	.00041	.09769	.00020	.00236	-.00384	.03444
#3	.00035	.00027	.09803	.00029	.00047	-.00267	.03818

Reviewed By:Mohan
On:12/16/2024
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Inst Id :P5

Sample Name: S0 Acquired: 12/13/2024 11:23:34 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) 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	2340.5	25508.	2246.9	1896.0	3122.3
Stddev	2.8	111.	9.8	13.8	4.8
%RSD	.12133	.43622	.43544	.72779	.15386
#1	2341.9	25468.	2237.5	1892.6	3118.8
#2	2337.2	25634.	2246.3	1911.2	3120.3
#3	2342.2	25423.	2257.0	1884.2	3127.8

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: S1 Acquired: 12/13/2024 11:27:42 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) 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	1.8638	.00188	.00212	.00206	.00956	.01994	.92554	.06313
Stddev	.7591	.00013	.00045	.00021	.00013	.00164	.00103	.00035
%RSD	40.732	6.8021	21.227	10.012	1.3781	8.2474	.11172	.54762
#1	2.3730	.00182	.00259	.00221	.00953	.01895	.92637	.06273
#2	.99123	.00203	.00208	.00213	.00944	.02184	.92438	.06330
#3	2.2270	.00180	.00169	.00182	.00970	.01904	.92587	.06335

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	.01707	.25729	.00317	.04685	.00733	.00234	.00712	.07291
Stddev	.00043	.00369	.00011	.00058	.00022	.00039	.00092	.00064
%RSD	2.5206	1.4353	3.4269	1.2357	3.0149	16.670	12.863	.87090
#1	.01740	.26120	.00305	.04683	.00714	.00273	.00773	.07343
#2	.01658	.25680	.00320	.04628	.00757	.00236	.00607	.07311
#3	.01723	.25386	.00326	.04743	.00727	.00195	.00756	.07221

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	.02181	.00052	.05349	.00622	.00257	.30410	-.00270	.00732
Stddev	.00025	.00026	.00569	.00046	.00050	.00269	.00002	.00118
%RSD	1.1547	49.103	10.630	7.3759	19.483	.88356	.76845	16.078
#1	.02179	.00066	.05503	.00608	.00283	.30719	-.00268	.00629
#2	.02156	.00069	.04719	.00674	.00288	.30231	-.00270	.00861
#3	.02206	.00023	.05824	.00585	.00199	.30280	-.00272	.00707

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00755	.00446	.52768	.00103	.04047	1.1839	.04633
Stddev	.00025	.00007	.00252	.00002	.00033	.0011	.00818
%RSD	3.3454	1.5997	.47842	2.1934	.82307	.09245	17.648
#1	.00774	.00454	.52551	.00105	.04083	1.1852	.04018
#2	.00765	.00442	.53045	.00101	.04017	1.1835	.04320
#3	.00726	.00442	.52707	.00102	.04040	1.1832	.05561

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: S1 Acquired: 12/13/2024 11:27:42 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) 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	2341.2	25656.	2235.1	1895.6	3134.7
Stddev	3.3	21.	7.5	2.3	3.6
%RSD	.14186	.08102	.33669	.12277	.11638
#1	2345.1	25680.	2243.6	1897.3	3138.8
#2	2339.5	25645.	2229.3	1892.9	3133.3
#3	2339.2	25642.	2232.5	1896.5	3132.0

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: S2 Acquired: 12/13/2024 11:31:49 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) 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	228.35	.10594	1.3831	.07913	.20324	4.1973	10.901	1.5449
Stddev	.92	.00075	.0010	.00056	.00011	.0116	.036	.0196
%RSD	.40489	.70424	.07111	.70187	.05517	.27586	.33316	1.2678
#1	227.40	.10533	1.3821	.07885	.20327	4.1865	10.860	1.5238
#2	228.42	.10572	1.3832	.07878	.20334	4.1959	10.926	1.5625
#3	229.24	.10678	1.3841	.07977	.20312	4.2095	10.918	1.5485

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	2.1584	3.0318	1.1407	.58131	.61806	.93022	1.6793	.87808
Stddev	.0049	.0072	.0037	.00108	.00537	.00252	.0053	.00448
%RSD	.22574	.23581	.32821	.18551	.86920	.27042	.31739	.51054
#1	2.1540	3.0258	1.1364	.58022	.61307	.92732	1.6735	.87465
#2	2.1576	3.0299	1.1422	.58135	.61736	.93157	1.6805	.87643
#3	2.1636	3.0397	1.1434	.58237	.62375	.93178	1.6839	.88315

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	.34683	.07667	.32754	.06771	.24049	1.0770	.07533	1.0836
Stddev	.00064	.00037	.00259	.00122	.00334	.0063	.00017	.0113
%RSD	.18417	.47757	.78952	1.7969	1.3896	.58565	.21914	1.0460
#1	.34609	.07640	.32456	.06630	.24135	1.0713	.07518	1.0709
#2	.34713	.07652	.32925	.06842	.23680	1.0759	.07532	1.0927
#3	.34726	.07708	.32879	.06840	.24332	1.0838	.07551	1.0873

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.87575	.05190	2.2784	.16931	.48851	14.211	1.2469
Stddev	.00100	.00046	.0260	.00031	.00190	.072	.0134
%RSD	.11364	.89132	1.1415	.18562	.38810	.50801	1.0764
#1	.87489	.05166	2.2488	.16895	.48697	14.131	1.2320
#2	.87684	.05160	2.2976	.16955	.48794	14.230	1.2510
#3	.87552	.05243	2.2888	.16942	.49063	14.271	1.2578

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: S2 Acquired: 12/13/2024 11:31:49 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) 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	2245.8	24945.	2250.6	1808.4	2873.7
Stddev	4.1	83.	17.5	9.2	3.1
%RSD	.18385	.33181	.77981	.50938	.10943
#1	2245.5	24926.	2270.8	1806.3	2873.0
#2	2241.8	25035.	2242.0	1818.4	2871.0
#3	2250.0	24873.	2239.0	1800.4	2877.2

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: S3 Acquired: 12/13/2024 11:35:39 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) 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	457.23	.21557	2.8357	.16332	.41843	8.5469	22.376	3.1489
Stddev	2.40	.00083	.0030	.00057	.00089	.0202	.063	.0122
%RSD	.52556	.38398	.10630	.35174	.21215	.23671	.28275	.38746
#1	455.34	.21506	2.8384	.16397	.41943	8.5326	22.376	3.1543
#2	456.42	.21653	2.8361	.16287	.41814	8.5700	22.439	3.1575
#3	459.94	.21513	2.8324	.16313	.41773	8.5380	22.313	3.1349

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	4.4056	6.1320	2.2821	1.1699	1.2556	1.8934	3.4041	1.7766
Stddev	.0051	.0032	.0107	.0027	.0046	.0095	.0134	.0051
%RSD	.11518	.05216	.46848	.23150	.36840	.50316	.39341	.28603
#1	4.4112	6.1354	2.2945	1.1726	1.2548	1.8870	3.3956	1.7721
#2	4.4042	6.1291	2.2759	1.1699	1.2606	1.9044	3.4196	1.7821
#3	4.4014	6.1314	2.2760	1.1672	1.2515	1.8889	3.3972	1.7757

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	.70782	.15713	.66457	.13779	.49555	2.0356	.16060	2.2241
Stddev	.00177	.00021	.00596	.00047	.00269	.0108	.00026	.0048
%RSD	.25019	.13526	.89723	.33942	.54215	.52884	.16315	.21476
#1	.70967	.15732	.66414	.13746	.49401	2.0267	.16031	2.2283
#2	.70765	.15717	.67074	.13759	.49865	2.0476	.16082	2.2252
#3	.70615	.15690	.65883	.13833	.49400	2.0325	.16067	2.2189

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.8019	.10835	4.5264	.34922	.99756	29.071	2.5140
Stddev	.0025	.00030	.0186	.00022	.00219	.110	.0173
%RSD	.13698	.27624	.41125	.06294	.21943	.37684	.68821
#1	1.8043	.10844	4.5420	.34910	.99601	29.007	2.5104
#2	1.8020	.10860	4.5315	.34947	1.0001	29.198	2.5329
#3	1.7994	.10802	4.5058	.34908	.99661	29.009	2.4988

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: S3 Acquired: 12/13/2024 11:35:39 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) 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	2155.6	24683.	2210.6	1746.6	2757.7
Stddev	7.1	74.	8.8	2.8	8.8
%RSD	.32905	.29802	.39638	.15911	.32061
#1	2152.8	24604.	2205.3	1743.8	2755.2
#2	2150.3	24695.	2205.7	1746.5	2750.3
#3	2163.6	24749.	2220.7	1749.4	2767.5

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: S4 Acquired: 12/13/2024 11:39:25 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) 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	900.15	.43425	5.7969	.34082	.88362	17.160	44.935	6.1978
Stddev	1.08	.00045	.0052	.00081	.00265	.059	.146	.0459
%RSD	.11993	.10399	.09002	.23808	.30040	.34292	.32425	.74085
#1	898.91	.43463	5.8028	.34137	.88357	17.093	44.784	6.1490
#2	900.86	.43375	5.7950	.33989	.88100	17.188	44.947	6.2401
#3	900.68	.43436	5.7929	.34119	.88630	17.200	45.075	6.2043

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	8.9286	12.278	4.5199	2.3402	2.4893	3.7429	6.7093	3.5204
Stddev	.0078	.025	.0113	.0020	.0093	.0123	.0172	.0079
%RSD	.08707	.20465	.24950	.08707	.37531	.32808	.25663	.22451
#1	8.9366	12.249	4.5083	2.3426	2.4801	3.7294	6.6911	3.5137
#2	8.9211	12.295	4.5308	2.3390	2.4889	3.7459	6.7116	3.5184
#3	8.9281	12.289	4.5207	2.3391	2.4988	3.7534	6.7253	3.5292

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	1.4328	.31973	1.3097	.27808	1.0364	3.9292	.33633	4.3682
Stddev	.0007	.00062	.0050	.00125	.0060	.0209	.00070	.0331
%RSD	.04850	.19404	.37764	.44933	.57582	.53199	.20735	.75865
#1	1.4335	.32030	1.3042	.27681	1.0425	3.9109	.33607	4.3311
#2	1.4327	.31907	1.3110	.27812	1.0360	3.9248	.33712	4.3948
#3	1.4321	.31983	1.3139	.27931	1.0306	3.9520	.33579	4.3789

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.8053	.22567	8.8090	.71483	2.0022	58.110	4.9663
Stddev	.0040	.00027	.0622	.00115	.0016	.158	.0227
%RSD	.10446	.11749	.70567	.16080	.08028	.27258	.45665
#1	3.8085	.22557	8.7407	.71601	2.0010	57.982	4.9418
#2	3.8009	.22547	8.8621	.71371	2.0016	58.062	4.9706
#3	3.8066	.22597	8.8243	.71477	2.0040	58.287	4.9866

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: S4 Acquired: 12/13/2024 11:39:25 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) 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	1989.2	24158.	2201.5	1637.9	2609.8
Stddev	6.9	37.	9.2	6.1	6.5
%RSD	.34486	.15464	.41986	.37481	.24774
#1	1982.6	24116.	2211.6	1632.7	2602.6
#2	1996.3	24168.	2193.4	1636.4	2615.0
#3	1988.8	24189.	2199.6	1644.7	2611.8

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: S5 Acquired: 12/13/2024 11:43:10 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) 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	1733.8	.86476	11.653	.74297	1.9601	34.560	89.942	12.087
Stddev	4.0	.00327	.026	.00042	.0027	.208	.585	.087
%RSD	.23261	.37769	.21982	.05684	.13915	.60115	.65042	.71605
#1	1737.6	.86418	11.648	.74315	1.9633	34.724	90.432	12.147
#2	1729.6	.86182	11.630	.74249	1.9587	34.326	89.294	11.988
#3	1734.3	.86827	11.681	.74328	1.9584	34.630	90.098	12.127

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	17.717	24.402	8.7581	4.6223	4.9335	7.3256	13.173	6.9142
Stddev	.037	.125	.0436	.0082	.0568	.0521	.088	.0482
%RSD	.21145	.51424	.49777	.17726	1.1508	.71175	.66667	.69698
#1	17.721	24.480	8.7221	4.6301	4.9822	7.3760	13.242	6.9533
#2	17.677	24.257	8.8066	4.6231	4.8711	7.2719	13.074	6.8603
#3	17.752	24.469	8.7457	4.6138	4.9473	7.3290	13.203	6.9290

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	2.8519	.64784	2.6091	.54935	2.2325	7.7509	.69030	8.3899
Stddev	.0044	.00180	.0194	.00376	.0186	.0547	.00097	.0522
%RSD	.15454	.27792	.74361	.68497	.83404	.70592	.14053	.62272
#1	2.8569	.64829	2.6295	.55082	2.2330	7.7986	.69067	8.4229
#2	2.8496	.64937	2.5909	.54508	2.2509	7.6912	.68919	8.3296
#3	2.8490	.64586	2.6070	.55216	2.2137	7.7630	.69102	8.4170

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8.3914	.46298	16.960	1.4317	3.9937	115.74	9.9706
Stddev	.0085	.00080	.102	.0028	.0375	2.93	.1296
%RSD	.10171	.17222	.60415	.19670	.93934	2.5276	1.2999
#1	8.3992	.46383	17.031	1.4318	4.0274	118.17	10.088
#2	8.3823	.46224	16.842	1.4289	3.9532	112.49	9.8316
#3	8.3927	.46289	17.006	1.4345	4.0004	116.55	9.9922

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: S5 Acquired: 12/13/2024 11:43:10 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) 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	1711.5	23454.	2186.6	1469.5	2440.6
Stddev	.6	23.	19.1	9.8	2.1
%RSD	.03538	.09939	.87465	.66978	.08505
#1	1712.2	23459.	2173.7	1475.4	2443.0
#2	1711.1	23428.	2208.5	1458.2	2439.9
#3	1711.3	23474.	2177.5	1475.1	2439.0

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: S6 Acquired: 12/13/2024 11:47:02 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) 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	93.609	40.978	19.790	11.273	7.3019
Stddev	.214	.226	.070	.050	.0250
%RSD	.22876	.55054	.35551	.44171	.34300
#1	93.421	40.999	19.796	11.274	7.2945
#2	93.842	41.192	19.857	11.323	7.3297
#3	93.564	40.743	19.717	11.223	7.2813

Int. Std.	Y_3710
Units	Cts/S
Avg	2099.0
Stddev	10.2
%RSD	.48419
#1	2110.3
#2	2090.6
#3	2096.1

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: ICV002 Acquired: 12/13/2024 12:40:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) 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	1.094649	1.039634	.9749123	.9423884	.9155053	2.364064
Stddev	.005427	.007896	.0017426	.0034728	.0006991	.010469
%RSD	.4957406	.7595287	.1787481	.3685139	.0763655	.4428426
#1	1.089232	1.039823	.9732777	.9422262	.9149745	2.362978
#2	1.094629	1.031645	.9767459	.9389996	.9152441	2.375034
#3	1.100085	1.047434	.9747135	.9459396	.9162975	2.354180

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5256808	.5246798	.4970665	10.23992	.5556413	.5015232
Stddev	.0006623	.0011910	.0005209	.10942	.0029357	.0009687
%RSD	.1259900	.2270052	.1047949	1.068548	.5283373	.1931497
#1	.5262516	.5246595	.4967457	10.27995	.5589170	.5004166
#2	.5249546	.5258810	.4967864	10.11612	.5532481	.5022177
#3	.5258362	.5234991	.4976676	10.32368	.5547590	.5019354

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5117796	10.50067	.5406480	6.233443	.5111628	.2574343
Stddev	.0014640	.06673	.0015937	.009754	.0009115	.0002833
%RSD	.2860513	.6354913	.2947728	.1564791	.1783218	.1100611
#1	.5117722	10.55802	.5407585	6.242243	.5114037	.2572022
#2	.5103193	10.42743	.5390019	6.235133	.5101550	.2577500
#3	.5132472	10.51655	.5421835	6.222955	.5119297	.2573507

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.57204	.5148573	1.099773	9.487001	F -.001533	F -.013319
Stddev	.36533	.0033918	.002258	.178182	.002111	.001356
%RSD	3.455632	.6587790	.2052799	1.878172	137.6809	10.18415
#1	10.43603	.5172128	1.100630	9.689811	.000381	-.014882
#2	10.98587	.5109698	1.097213	9.355596	-.001183	-.012617
#3	10.29423	.5163891	1.101477	9.415595	-.003796	-.012457

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: ICV002 Acquired: 12/13/2024 12:40:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV002 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.000322	F .0086468	F -.039133	F -.000445	F -.002165	F -.009339
Stddev	.000059	.0015968	.000695	.000780	.004817	.000183
%RSD	18.28091	18.46702	1.776069	175.2398	222.4634	1.961470
#1	-.000271	.0068380	-.039912	-.000182	-.005163	-.009155
#2	-.000308	.0092415	-.038909	-.001322	-.004725	-.009339
#3	-.000386	.0098609	-.038578	.000170	.003391	-.009522

Elem	Li6707
Units	ppm
Avg	F -.006253
Stddev	.004123
%RSD	65.94738
#1	-.005215
#2	-.002747
#3	-.010796

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2369.353	26096.78	2315.240	1917.725	3171.046
Stddev	3.416	122.51	2.309	14.102	5.878
%RSD	.1441847	.4694291	.0997453	.7353251	.1853531
#1	2366.179	26008.00	2312.914	1909.143	3164.579
#2	2372.969	26236.54	2317.532	1933.999	3176.062
#3	2368.911	26045.78	2315.273	1910.031	3172.498

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: ICB002 Acquired: 12/13/2024 13:14:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) 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	.0025312	-.000989	-.002357	.0000133	.0021548	.0106393	.0011165
Stddev	.0016104	.001894	.000546	.0029279	.0019956	.0035871	.0009997
%RSD	63.62407	191.4352	23.15931	22015.28	92.61316	33.71583	89.54045
#1	.0036582	.000635	-.001795	.0006542	.0009566	.0065320	.0022172
#2	.0006867	-.003069	-.002390	.0025677	.0010492	.0122290	.0008677
#3	.0032486	-.000533	-.002885	-.003182	.0044585	.0131568	.0002647

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000297	.0000273	.0524202	-.000618	.0001079	.0019600	-.002651
Stddev	.0000761	.0000241	.0518368	.000696	.0002186	.0019445	.032656
%RSD	255.9147	88.27384	98.88713	112.6103	202.6627	99.20986	1232.010
#1	.0001175	.0000107	.0604802	-.000033	.0000109	.0011854	-.029278
#2	-.000016	.0000163	-.002975	-.000434	.0003582	.0041725	.033786
#3	-.000012	.0000550	.099755	-.001387	-.000045	.0005222	-.012459

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001376	.0674244	-.000815	.0006437	1.265602	-.010526	.0027720
Stddev	.0003858	.0373653	.000441	.0011016	.697567	.008053	.0047678
%RSD	280.2816	55.41812	54.13014	171.1212	55.11741	76.50012	171.9994
#1	.0005288	.0370409	-.000316	.0016718	.461190	-.003192	-.002365
#2	-.000243	.0560869	-.001154	.0007784	1.631878	-.019144	.003626
#3	.000127	.1091454	-.000975	-.000519	1.703738	-.009244	.007055

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3705117	-.002009	-.012484	.0000461	-.000807	-.039623	-.000390
Stddev	.2425584	.000966	.001750	.0003746	.003832	.001107	.001156
%RSD	65.46579	48.10860	14.02140	812.1557	474.6298	2.794167	296.4080
#1	.1719614	-.003045	-.014267	.0004780	.003061	-.040319	-.001606
#2	.6408655	-.001132	-.010768	-.000150	-.004602	-.038346	.000696
#3	.2987082	-.001849	-.012418	-.000189	-.000880	-.040203	-.000260

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: ICB002 Acquired: 12/13/2024 13:14:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB002 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.002476	-.000108	-.010521
Stddev	.001696	.000414	.001112
%RSD	68.50440	384.6732	10.56989
#1	-.000548	.000099	-.011508
#2	-.003740	-.000584	-.010739
#3	-.003140	.000163	-.009316

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2366.379	25909.99	2228.443	1903.365	3207.271
Stddev	2.031	234.88	65.915	19.962	1.723
%RSD	.0858097	.9065283	2.957889	1.048765	.0537366
#1	2365.681	25646.62	2277.686	1883.763	3208.112
#2	2364.790	26097.76	2153.561	1923.668	3205.288
#3	2368.667	25985.60	2254.082	1902.664	3208.412

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: ICSA002 Acquired: 12/13/2024 13:18:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) 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	.0033037	.0168856	.0006046	-.021777	.0144171	235.9905
Stddev	.0058586	.0012703	.0033355	.001839	.0023126	.2148
%RSD	177.3325	7.523115	551.7332	8.446673	16.04095	.0910332
#1	.0100673	.0182028	-.002963	-.020469	.0162418	236.0478
#2	-.000195	.0167858	.003645	-.020982	.0151934	235.7529
#3	.000039	.0156681	.001132	-.023881	.0118162	236.1709

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0089166	.0014900	.0010214	241.9880	.0508922	.0302403
Stddev	.0006947	.0000980	.0000702	.2860	.0009110	.0003588
%RSD	7.790645	6.577361	6.876672	.1181677	1.790061	1.186630
#1	.0097160	.0015585	.0010909	242.3175	.0510201	.0305715
#2	.0085749	.0015336	.0010229	241.8410	.0517325	.0298591
#3	.0084590	.0013777	.0009505	241.8053	.0499240	.0302902

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.013717	100.6993	.0105133	254.5722	.0078310	-.009913
Stddev	.001516	.2339	.0016552	.3898	.0010613	.000935
%RSD	11.05126	.2323096	15.74394	.1531266	13.55297	9.434849
#1	-.013986	100.6205	.0091834	254.5950	.0078713	-.009574
#2	-.015081	100.5149	.0099893	254.1716	.0067501	-.010971
#3	-.012085	100.9624	.0123670	254.9502	.0088716	-.009195

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.506252	.0041326	-.025667	-1.03779	.0022272	F -.030707
Stddev	.877109	.0115058	.004786	.05700	.0002017	.000246
%RSD	58.23123	278.4157	18.64500	5.492051	9.058050	.8013045
#1	.703117	.0044059	-.020254	-1.09955	.0021374	-.030844
#2	2.442188	-.007507	-.029337	-.98721	.0024582	-.030423
#3	1.373449	.015499	-.027411	-1.02662	.0020859	-.030854

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: ICSA002 Acquired: 12/13/2024 13:18:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA002 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006024	.0094679	-.045553	F .0087311	-.005424	.0040660
Stddev	.0004246	.0025367	.000068	.0006243	.001594	.0001660
%RSD	70.48892	26.79239	.1502750	7.150683	29.38296	4.082788
#1	.0002198	.0113395	-.045500	.0092801	-.006919	.0039790
#2	.0010592	.0065808	-.045528	.0080520	-.005605	.0042574
#3	.0005280	.0104835	-.045630	.0088612	-.003747	.0039616

Elem	Li6707
Units	ppm
Avg	-.008610
Stddev	.000735
%RSD	8.534696
#1	-.008035
#2	-.008358
#3	-.009438

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2266.747	24728.19	2262.140	1824.676	2809.381
Stddev	5.006	52.01	7.038	11.423	4.805
%RSD	.2208310	.2103323	.3111017	.6260340	.1710174
#1	2270.148	24668.93	2269.194	1813.711	2814.842
#2	2260.999	24749.33	2255.119	1836.508	2805.803
#3	2269.095	24766.30	2262.108	1823.810	2807.498

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: ICSAB002 Acquired: 12/13/2024 13:22:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) 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	.1048030	.1218471	.0499588	.0211340	.5307868	235.2262
Stddev	.0068593	.0048616	.0036921	.0073664	.0026413	.5365
%RSD	6.544913	3.989895	7.390305	34.85579	.4976246	.2280901
#1	.1082097	.1258073	.0505612	.0128108	.5338361	234.8814
#2	.0969073	.1164213	.0533127	.0268147	.5293189	234.9528
#3	.1092920	.1233126	.0460025	.0237765	.5292055	235.8443

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5295335	.5153808	.9745996	242.8592	.5810026	.5043351
Stddev	.0016342	.0010065	.0048774	.9100	.0003464	.0030255
%RSD	.3086063	.1953030	.5004521	.3747084	.0596178	.5999041
#1	.5283776	.5142189	.9802229	242.8272	.5813742	.5078036
#2	.5288198	.5159853	.9720579	241.9656	.5806887	.5022388
#3	.5314031	.5159383	.9715180	243.7848	.5809450	.5029629

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4655042	100.6357	.5266891	253.0537	.9802044	.1837031
Stddev	.0025364	.1107	.0034153	.1292	.0037464	.0012281
%RSD	.5448801	.1099973	.6484452	.0510478	.3822072	.6685246
#1	.4646781	100.5891	.5231945	253.1249	.9844787	.1837107
#2	.4634837	100.5558	.5268536	252.9045	.9786448	.1849273
#3	.4683506	100.7620	.5300191	253.1315	.9774897	.1824712

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.671346	.5263606	.8956275	-1.83497	.0005936	F -.030927
Stddev	.230854	.0049825	.0074238	.05419	.0025674	.003513
%RSD	13.81245	.9465868	.8288910	2.952919	432.5017	11.35913
#1	1.427727	.5311844	.8917228	-1.83851	.0010094	-.027236
#2	1.886861	.5266639	.8909711	-1.77910	.0029278	-.031316
#3	1.699449	.5212334	.9041888	-1.88730	-.002156	-.034230

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: ICSAB002 Acquired: 12/13/2024 13:22:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB002 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005449	.0102045	-.044864	F .0084639	-.005179	.0042779
Stddev	.0004612	.0039600	.000740	.0019725	.003148	.0003576
%RSD	84.63353	38.80710	1.648476	23.30426	60.79272	8.360185
#1	.0000843	.0056354	-.044718	.0100662	-.008743	.0044021
#2	.0010066	.0123324	-.045665	.0062610	-.004015	.0038747
#3	.0005439	.0126457	-.044208	.0090646	-.002778	.0045568

Elem	Li6707
Units	ppm
Avg	F -.022058
Stddev	.004940
%RSD	22.39730
#1	-.018783
#2	-.027741
#3	-.019651

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2262.453	24753.21	2274.824	1831.753	2815.641
Stddev	7.281	29.57	8.017	3.175	5.708
%RSD	.3218380	.1194549	.3524070	.1733375	.2027265
#1	2254.495	24740.02	2283.993	1829.108	2810.632
#2	2268.781	24732.52	2271.338	1835.274	2821.856
#3	2264.084	24787.07	2269.140	1830.876	2814.435

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: CCV007 Acquired: 12/13/2024 13:45:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV007 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.736477	4.848990	23.49551	4.505487	4.587134	377.5410	9.712883
Stddev	.018483	.013910	.03340	.009604	.011655	.6654	.013120
%RSD	.3902256	.2868690	.1421641	.2131588	.2540773	.1762480	.1350821
#1	4.728404	4.861050	23.51563	4.500508	4.590903	377.0960	9.709870
#2	4.723403	4.833773	23.45695	4.499395	4.574061	378.3059	9.727248
#3	4.757623	4.852148	23.51394	4.516558	4.596438	377.2209	9.701532

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4769488	2.350155	392.5557	14.76073	2.341785	14.62638	392.1255
Stddev	.0016946	.005686	.5501	.02175	.006890	.01032	1.1641
%RSD	.3552936	.2419248	.1401388	.1473555	.2942126	.0705558	.2968713
#1	.4774141	2.354094	392.5091	14.75956	2.342449	14.61452	390.8588
#2	.4783622	2.343637	393.1276	14.73959	2.334587	14.63129	393.1483
#3	.4750703	2.352734	392.0303	14.78305	2.348319	14.63333	392.3695

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.65741	380.3257	2.386826	1.224124	380.5217	2.429562	13.95728
Stddev	.01981	.6320	.005141	.004390	1.2836	.014195	.04999
%RSD	.1351266	.1661681	.2154111	.3586338	.3373140	.5842530	.3581447
#1	14.65642	380.2837	2.391317	1.229113	379.2406	2.426237	13.99796
#2	14.67769	380.9776	2.381218	1.222404	381.8077	2.445123	13.90148
#3	14.63812	379.7158	2.387943	1.220853	380.5168	2.417324	13.97240

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	143.7935	4.709993	4.665184	4.569891	4.694771	4.728707	4.783962
Stddev	.0809	.001942	.009519	.004426	.018132	.018973	.013719
%RSD	.0562416	.0412312	.2040471	.0968534	.3862104	.4012322	.2867681
#1	143.8462	4.712201	4.658453	4.574013	4.711787	4.706802	4.796593
#2	143.8339	4.708552	4.676075	4.565214	4.675699	4.739334	4.769367
#3	143.7004	4.709225	4.661024	4.570447	4.696826	4.739985	4.785925

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: CCV007 Acquired: 12/13/2024 13:45:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV007 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	4.910711	4.584252	4.916906
Stddev	.004334	.002638	.010851
%RSD	.0882500	.0575427	.2206889
#1	4.910679	4.586512	4.904797
#2	4.915061	4.584891	4.920174
#3	4.906393	4.581353	4.925749

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1935.383	23352.32	2194.106	1611.459	2531.931
Stddev	4.662	88.07	13.332	5.660	4.594
%RSD	.2408774	.3771458	.6076186	.3512330	.1814461
#1	1931.177	23326.69	2200.859	1606.367	2527.147
#2	1934.578	23279.90	2178.749	1610.456	2532.337
#3	1940.396	23450.36	2202.710	1617.553	2536.308

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: CCB007 Acquired: 12/13/2024 13:49:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB007 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032029	.0013195	.0056961	.0004668	.0033745	.0184343
Stddev	.0012614	.0009026	.0024697	.0047166	.0010794	.0039260
%RSD	39.38308	68.40324	43.35835	1010.467	31.98571	21.29715
#1	.0038137	.0012833	.0074183	-.002166	.0021499	.0180533
#2	.0017524	.0022397	.0068033	-.002346	.0041877	.0225369
#3	.0040426	.0004355	.0028665	.005912	.0037860	.0147127

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016786	.0002171	.0002610	-.001048	.0020296	.0001217
Stddev	.0008769	.0000983	.0000153	.018362	.0004603	.0001123
%RSD	52.24009	45.27286	5.850080	1752.427	22.67949	92.24920
#1	.0008242	.0001092	.0002781	-.019639	.0015711	.0002320
#2	.0016353	.0003014	.0002489	.017076	.0020261	.0000075
#3	.0025764	.0002406	.0002558	-.000580	.0024917	.0001257

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022249	.0278615	.0020399	.1092355	.0006856	.0003124
Stddev	.0018441	.0265829	.0014616	.0499786	.0007084	.0009580
%RSD	82.88573	95.41074	71.65044	45.75306	103.3329	306.6177
#1	.0014406	.0517156	.0032757	.1664780	-.000084	.0007108
#2	.0043316	-.000795	.0004266	.0869643	.000831	-.000780
#3	.0009026	.032664	.0024174	.0742641	.001310	.001007

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.410537	-.003995	.0080438	-.386495	.0007601	.0056553
Stddev	.459735	.001962	.0099596	.229612	.0021719	.0023584
%RSD	19.07191	49.10252	123.8173	59.40875	285.7284	41.70341
#1	1.924552	-.006152	.0189038	-.611563	-.000392	.0081257
#2	2.468542	-.002319	-.000663	-.152594	.003265	.0034276
#3	2.838518	-.003514	.005891	-.395327	-.000593	.0054125

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: CCB007 Acquired: 12/13/2024 13:49:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB007 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005815	-.003677	-.038462	.0012734	-.003624	.0003265
Stddev	.0000485	.001475	.000797	.0006362	.002666	.0002142
%RSD	8.341421	40.09970	2.071725	49.95804	73.56853	65.60496
#1	.0005404	-.004943	-.039147	.0018185	-.002862	.0001206
#2	.0006350	-.002058	-.037588	.0014272	-.006587	.0003108
#3	.0005691	-.004031	-.038651	.0005744	-.001422	.0005480

Elem	Li6707
Units	ppm
Avg	F -.026268
Stddev	.003040
%RSD	11.57115
#1	-.029724
#2	-.024012
#3	-.025068

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2356.226	25692.56	2257.693	1901.545	3189.496
Stddev	6.446	124.45	6.274	9.698	2.509
%RSD	.2735842	.4843640	.2778817	.5100109	.0786650
#1	2362.094	25602.99	2253.436	1895.297	3191.887
#2	2357.256	25834.65	2254.745	1912.717	3189.717
#3	2349.326	25640.03	2264.898	1896.621	3186.883

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4976-01DLX2 Acquired: 12/13/2024 13:53:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29D7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0142646	.0251786	.0318617	-.035799	-.006776	7.594028	.0314147
Stddev	.0016518	.0026623	.0006559	.002152	.001781	.055463	.0004066
%RSD	11.57983	10.57367	2.058666	6.011452	26.29002	.7303446	1.294174
#1	.0153566	.0244221	.0317082	-.035525	-.006059	7.640404	.0316871
#2	.0123643	.0229765	.0325808	-.038075	-.005465	7.609091	.0309474
#3	.0150729	.0281373	.0312962	-.033797	-.008804	7.532590	.0316096

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009885	.0006990	534.2363	.0201737	.0512022	.0303797	30.75563
Stddev	.0001689	.0000292	1.3531	.0010030	.0003533	.0070922	.12581
%RSD	17.08771	4.169756	.2532746	4.972056	.6900641	23.34541	.4090764
#1	.0008707	.0006929	535.3335	.0212028	.0513209	.0383840	30.87721
#2	.0009127	.0006734	534.6510	.0201194	.0508049	.0248782	30.76372
#3	.0011820	.0007307	532.7244	.0191989	.0514810	.0278768	30.62597

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.152336	142.2486	.0418257	-.003959	2.241468	.0322348	.0644350
Stddev	.001409	.6795	.0005648	.000247	.292551	.0059910	.0133854
%RSD	.1222898	.4777009	1.350313	6.235777	13.05177	18.58538	20.77343
#1	1.153740	142.8610	.0424777	-.003951	2.541722	.0343762	.0763470
#2	1.152345	142.3671	.0415106	-.004209	1.957282	.0368609	.0670083
#3	1.150922	141.5176	.0414887	-.003716	2.225399	.0254674	.0499499

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.98923	.8113007	.0085807	.0040438	.4711634	1.962539	.0102476
Stddev	.08779	.0048073	.0034804	.0006093	.0076191	.004748	.0021611
%RSD	4.413448	.5925396	40.56021	15.06643	1.617078	.2419233	21.08888
#1	-1.89871	.8057904	.0075097	.0043958	.4623656	1.957475	.0117099
#2	-2.07401	.8146365	.0057617	.0033403	.4755471	1.963251	.0077653
#3	-1.99498	.8134753	.0124707	.0043954	.4755774	1.966890	.0112677

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4976-01DLX2 Acquired: 12/13/2024 13:53:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29D7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2302917	.3528123	.0033913
Stddev	.0011676	.0008968	.0041291
%RSD	.5070026	.2541815	121.7544
#1	.2316315	.3538322	.0074583
#2	.2297518	.3521472	.0035128
#3	.2294918	.3524576	-.000797

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2281.969	25288.23	2294.616	1845.478	2784.025
Stddev	4.952	72.91	4.333	4.027	3.986
%RSD	.2169909	.2883013	.1888466	.2181854	.1431576
#1	2278.756	25280.26	2289.832	1845.882	2780.153
#2	2287.672	25219.64	2298.278	1841.265	2788.115
#3	2279.480	25364.80	2295.737	1849.287	2783.806

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4976-02DLX2 Acquired: 12/13/2024 13:56:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29D8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0119656	.0252613	.0285495	-.037015	-.005697	6.675788	.0360961
Stddev	.0055471	.0014267	.0038452	.000528	.001577	.013801	.0005257
%RSD	46.35837	5.647918	13.46842	1.425230	27.68062	.2067302	1.456416
#1	.0161329	.0268300	.0256326	-.036937	-.005170	6.691446	.0356484
#2	.0056695	.0240411	.0329069	-.037577	-.004451	6.665394	.0366750
#3	.0140945	.0249127	.0271090	-.036531	-.007470	6.670524	.0359650

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008492	.0006375	640.9263	.0202919	.0478600	.0356557	29.06100
Stddev	.0000967	.0001455	1.4476	.0005528	.0003473	.0044505	.11217
%RSD	11.38562	22.82849	.2258651	2.724307	.7255925	12.48189	.3859919
#1	.0008031	.0007848	642.0196	.0208965	.0474590	.0306557	29.15823
#2	.0007842	.0004938	639.2846	.0201672	.0480585	.0371277	28.93827
#3	.0009603	.0006340	641.4747	.0198121	.0480625	.0391837	29.08649

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.146216	96.94499	.0333193	-.002233	1.843186	.0396528	.0703366
Stddev	.002521	.18621	.0003412	.000843	.267325	.0083623	.0105335
%RSD	.2199443	.1920810	1.023952	37.75943	14.50342	21.08874	14.97582
#1	1.148518	96.83724	.0330830	-.002326	1.588162	.0301328	.0599512
#2	1.143522	96.83772	.0331644	-.003026	1.820084	.0458110	.0700464
#3	1.146608	97.16001	.0337104	-.001347	2.121312	.0430147	.0810122

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-2.26512	.8802534	.0011039	.0037574	.5562056	2.114038	.0084248
Stddev	.13727	.0010872	.0007343	.0005348	.0047118	.007175	.0010530
%RSD	6.060092	.1235084	66.52282	14.23286	.8471398	.3394049	12.49921
#1	-2.25997	.8798928	.0002737	.0042923	.5608448	2.111569	.0096374
#2	-2.13050	.8793924	.0013694	.0032227	.5514244	2.122122	.0078972
#3	-2.40489	.8814751	.0016685	.0037572	.5563476	2.108424	.0077399

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4976-02DLX2 Acquired: 12/13/2024 13:56:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29D8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2778096	.4821998	-.003324
Stddev	.0028473	.0008654	.002480
%RSD	1.024905	.1794707	74.61063
#1	.2802094	.4829476	-.002172
#2	.2785560	.4812518	-.006171
#3	.2746635	.4824000	-.001630

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2311.781	25521.20	2307.346	1866.951	2810.172
Stddev	5.374	92.05	11.167	6.786	5.023
%RSD	.2324457	.3606780	.4839620	.3634647	.1787259
#1	2313.706	25604.55	2295.702	1873.152	2814.108
#2	2305.709	25536.66	2308.372	1867.999	2804.515
#3	2315.926	25422.40	2317.965	1859.702	2811.893

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4976-03DLX2 Acquired: 12/13/2024 14:00:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29D9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0313676	.0246110	.0302762	-.036566	-.005871	9.635334	.0445697
Stddev	.0035581	.0023224	.0016128	.003139	.001009	.016588	.0005869
%RSD	11.34342	9.436450	5.326954	8.585755	17.18792	.1721557	1.316761
#1	.0312744	.0242278	.0294155	-.033174	-.005632	9.640278	.0440147
#2	.0278569	.0225041	.0292763	-.039369	-.006979	9.616836	.0445106
#3	.0349714	.0271012	.0321367	-.037156	-.005003	9.648887	.0451839

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008171	.0004853	533.4386	.0310276	.0499722	.0345278	29.45714
Stddev	.0000868	.0000376	1.2802	.0007501	.0002232	.0023134	.07227
%RSD	10.61820	7.749494	.2399971	2.417450	.4466868	6.700123	.2453461
#1	.0008790	.0004931	532.5390	.0318152	.0497864	.0362789	29.37448
#2	.0007179	.0005184	534.9043	.0309458	.0499104	.0353993	29.48853
#3	.0008543	.0004444	532.8725	.0303217	.0502198	.0319052	29.50841

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.539961	131.6919	.0444167	-.002602	2.594886	.0412536	.0849572
Stddev	.001953	.4035	.0010263	.000512	.301603	.0130697	.0039170
%RSD	.0768747	.3064024	2.310512	19.67936	11.62300	31.68138	4.610544
#1	2.540135	131.3186	.0449170	-.002851	2.857953	.0439343	.0805632
#2	2.541821	132.1200	.0432362	-.002942	2.265713	.0527751	.0880826
#3	2.537927	131.6370	.0450968	-.002013	2.660992	.0270514	.0862260

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-2.26992	.9065638	.0014954	.0016308	2.492326	1.899491	.0070175
Stddev	.12282	.0049997	.0011294	.0000979	.007624	.009443	.0004832
%RSD	5.410701	.5515039	75.52420	6.000361	.3059015	.4971237	6.884908
#1	-2.35274	.9050540	.0016055	.0017415	2.497253	1.888959	.0075475
#2	-2.32820	.9024929	.0003150	.0015951	2.483544	1.907202	.0066016
#3	-2.12881	.9121444	.0025659	.0015558	2.496181	1.902311	.0069034

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4976-03DLX2 Acquired: 12/13/2024 14:00:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29D9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3422775	.3852989	-.003925
Stddev	.0016520	.0005785	.005547
%RSD	.4826434	.1501422	141.3177
#1	.3405799	.3851084	-.003976
#2	.3438798	.3859486	-.009447
#3	.3423727	.3848397	.001647

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2320.536	25415.44	2317.421	1856.149	2809.097
Stddev	1.765	196.78	12.241	6.132	2.283
%RSD	.0760652	.7742466	.5282290	.3303718	.0812553
#1	2322.105	25188.23	2331.196	1849.096	2811.612
#2	2320.879	25531.14	2313.278	1860.221	2807.156
#3	2318.625	25526.95	2307.789	1859.129	2808.524

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4976-05DLX2 Acquired: 12/13/2024 14:04:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0138640	.0227871	.0353623	-.033172	-.004257	10.12952	.0446821
Stddev	.0039175	.0014241	.0003056	.000899	.000345	.04119	.0007495
%RSD	28.25698	6.249613	.8642783	2.708873	8.092683	.4065966	1.677403
#1	.0097143	.0234755	.0354874	-.032135	-.004519	10.12093	.0454502
#2	.0143792	.0211496	.0355855	-.033733	-.003867	10.17433	.0446434
#3	.0174984	.0237362	.0350140	-.033646	-.004385	10.09331	.0439527

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010961	.0006497	488.8715	.0252236	.0496737	.0296072	31.36380
Stddev	.0000388	.0000694	.5709	.0005927	.0002962	.0076261	.08570
%RSD	3.535442	10.67342	.1167830	2.349747	.5962662	25.75758	.2732568
#1	.0010867	.0005914	489.3846	.0253258	.0498309	.0353377	31.38132
#2	.0011387	.0007264	488.2565	.0245865	.0493320	.0325324	31.27069
#3	.0010629	.0006314	488.9733	.0257586	.0498581	.0209516	31.43939

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.086494	115.3171	.0403176	-.004115	2.515561	.0448848	.0799448
Stddev	.002624	.0696	.0011017	.001171	.572598	.0100616	.0029076
%RSD	.2415097	.0603633	2.732556	28.46675	22.76224	22.41643	3.636988
#1	1.084684	115.2715	.0390989	-.004128	3.127476	.0455187	.0832609
#2	1.085296	115.3972	.0406110	-.002937	2.426487	.0345213	.0778320
#3	1.089504	115.2825	.0412429	-.005279	1.992720	.0546145	.0787416

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.21267	.8836365	.0090388	.0041237	.5455806	4.840290	.0085180
Stddev	.13153	.0018021	.0010903	.0002060	.0051173	.028387	.0002109
%RSD	10.84662	.2039452	12.06204	4.994522	.9379502	.5864752	2.476198
#1	-1.09991	.8845033	.0085212	.0041930	.5405023	4.824812	.0086262
#2	-1.35717	.8815648	.0083038	.0038920	.5507360	4.873052	.0086529
#3	-1.18093	.8848415	.0102915	.0042860	.5455037	4.823006	.0082750

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4976-05DLX2 Acquired: 12/13/2024 14:04:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4152220	.3651743	-.013369
Stddev	.0076016	.0006214	.003560
%RSD	1.830737	.1701538	26.62763
#1	.4236579	.3653548	-.009382
#2	.4131044	.3644827	-.016230
#3	.4089038	.3656855	-.014496

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2345.899	25718.20	2332.729	1880.045	2873.137
Stddev	8.021	65.52	9.343	8.346	10.852
%RSD	.3419047	.2547574	.4005053	.4438998	.3777162
#1	2353.053	25652.95	2343.464	1870.554	2882.257
#2	2347.417	25717.67	2326.437	1883.347	2876.019
#3	2337.228	25783.98	2328.285	1886.234	2861.134

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4976-06DLX2 Acquired: 12/13/2024 14:08:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0131606	.0272996	.0308618	-.042270	-.007273	7.015029	.0298609
Stddev	.0013036	.0018018	.0010095	.002329	.000127	.020024	.0009278
%RSD	9.905678	6.599907	3.270978	5.510329	1.751091	.2854425	3.107162
#1	.0118847	.0293580	.0303666	-.040493	-.007255	7.037266	.0305403
#2	.0144903	.0260082	.0301956	-.041410	-.007156	6.998424	.0288038
#3	.0131069	.0265328	.0320233	-.044907	-.007409	7.009397	.0302385

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010091	.0006086	698.5695	.0190986	.0507997	.0304095	28.80866
Stddev	.0001721	.0000769	2.9896	.0009870	.0002961	.0039830	.26531
%RSD	17.05495	12.63916	.4279626	5.167776	.5828424	13.09798	.9209247
#1	.0009067	.0006827	701.9294	.0179803	.0505537	.0262728	29.08470
#2	.0012078	.0005291	696.2034	.0194672	.0507169	.0307369	28.55558
#3	.0009128	.0006140	697.5756	.0198482	.0511283	.0342187	28.78571

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.146522	240.7386	.0378026	-.003916	2.364625	.0282548	.0588484
Stddev	.006806	1.1630	.0002880	.000882	.246507	.0100217	.0052762
%RSD	.5936394	.4831138	.7618264	22.51965	10.42478	35.46907	8.965777
#1	1.154320	242.0715	.0379651	-.002948	2.633212	.0376370	.0527574
#2	1.141779	240.2143	.0379726	-.004673	2.311952	.0294304	.0620094
#3	1.143467	239.9299	.0374701	-.004127	2.148713	.0176972	.0617783

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-2.21719	.8517133	.0045204	.0026996	.6870118	1.512358	.0082106
Stddev	.18059	.0013536	.0011223	.0001047	.0068266	.009881	.0008425
%RSD	8.144834	.1589228	24.82648	3.878541	.9936717	.6533218	10.26176
#1	-2.25408	.8528003	.0046730	.0025934	.6933768	1.523353	.0078649
#2	-2.02100	.8501972	.0033296	.0028027	.6798021	1.504224	.0091710
#3	-2.37647	.8521424	.0055585	.0027027	.6878566	1.509496	.0075958

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4976-06DLX2 Acquired: 12/13/2024 14:08:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2366191	.4563420	-.005598
Stddev	.0014674	.0006965	.004124
%RSD	.6201601	.1526241	73.65944
#1	.2375221	.4570481	-.003859
#2	.2374092	.4556555	-.002629
#3	.2349259	.4563226	-.010307

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2245.535	24933.24	2268.391	1814.574	2707.229
Stddev	.584	94.86	9.943	5.655	4.743
%RSD	.0260164	.3804533	.4383292	.3116687	.1752070
#1	2246.138	25042.44	2257.018	1821.090	2710.640
#2	2244.972	24886.12	2275.438	1810.942	2701.812
#3	2245.494	24871.17	2272.717	1811.690	2709.234

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4976-07DLX2 Acquired: 12/13/2024 14:12:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0117292	.0289720	.0291805	-.037967	-.007469	6.553457	.0319637
Stddev	.0019402	.0016170	.0035308	.008105	.000392	.054115	.0009329
%RSD	16.54171	5.581098	12.10001	21.34796	5.241974	.8257507	2.918789
#1	.0138197	.0273072	.0253264	-.029328	-.007130	6.558443	.0329273
#2	.0099862	.0290723	.0322593	-.045404	-.007897	6.604907	.0310648
#3	.0113817	.0305364	.0299557	-.039170	-.007380	6.497022	.0318989

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007985	.0005599	671.1030	.0203014	.0487337	.0209845	29.63436
Stddev	.0000283	.0001078	3.7034	.0007763	.0005210	.0069511	.13439
%RSD	3.540673	19.25387	.5518319	3.824076	1.069127	33.12485	.4534894
#1	.0007725	.0006840	672.8188	.0195157	.0488679	.0238691	29.53470
#2	.0007945	.0004901	673.6373	.0203204	.0481587	.0130555	29.78720
#3	.0008286	.0005055	666.8529	.0210681	.0491745	.0260288	29.58118

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.338259	161.8817	.0320589	-.004966	2.082497	.0323412	.0590961
Stddev	.005344	.7924	.0006990	.001079	.119655	.0109338	.0102370
%RSD	.3993056	.4895007	2.180362	21.71937	5.745752	33.80760	17.32264
#1	1.341000	162.6049	.0323146	-.005510	1.973459	.0441802	.0681944
#2	1.341676	162.0055	.0325941	-.005664	2.210503	.0302198	.0480115
#3	1.332101	161.0347	.0312681	-.003724	2.063529	.0226236	.0610825

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-2.73342	.9215601	.0028480	.0018950	.8293762	1.319342	.0090735
Stddev	.08186	.0049144	.0005407	.0004552	.0011301	.014463	.0019092
%RSD	2.994913	.5332692	18.98556	24.02057	.1362580	1.096254	21.04138
#1	-2.76311	.9184207	.0034677	.0020608	.8297483	1.330114	.0071393
#2	-2.79630	.9190360	.0026038	.0013801	.8281069	1.325009	.0091245
#3	-2.64086	.9272236	.0024724	.0022440	.8302732	1.302904	.0109566

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4976-07DLX2 Acquired: 12/13/2024 14:12:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2749349	.4133281	-.011457
Stddev	.0021880	.0021238	.001712
%RSD	.7958374	.5138399	14.94068
#1	.2773488	.4141623	-.009506
#2	.2743741	.4149083	-.012160
#3	.2730819	.4109139	-.012705

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2267.883	24980.99	2284.065	1815.211	2749.017
Stddev	4.734	108.20	16.604	10.588	5.352
%RSD	.2087418	.4331281	.7269548	.5832762	.1947001
#1	2270.033	25087.74	2271.855	1826.479	2754.418
#2	2271.162	24983.82	2277.369	1813.684	2748.917
#3	2262.456	24871.40	2302.972	1805.470	2743.715

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4976-08DLX2 Acquired: 12/13/2024 14:16:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0755144	.0259267	.0332744	-.040531	-.005456	9.965038	.0496741
Stddev	.0028605	.0023350	.0007612	.001603	.002005	.046662	.0012783
%RSD	3.787962	9.006100	2.287572	3.954082	36.75678	.4682521	2.573428
#1	.0724643	.0232782	.0334283	-.038725	-.006911	9.990658	.0511382
#2	.0759419	.0268137	.0339468	-.041784	-.006289	9.993277	.0487800
#3	.0781371	.0276883	.0324480	-.041084	-.003168	9.911179	.0491040

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011146	.0006516	617.7110	.0271310	.0536114	.0285016	32.26200
Stddev	.0001105	.0001746	1.7704	.0001209	.0003370	.0029265	.04630
%RSD	9.914800	26.79147	.2866072	.4456845	.6286497	10.26765	.1435002
#1	.0010274	.0004606	619.6109	.0270360	.0536907	.0315132	32.30658
#2	.0010775	.0006913	617.4146	.0270898	.0532418	.0256685	32.26524
#3	.0012388	.0008030	616.1075	.0272671	.0539017	.0283231	32.21416

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.381965	96.55666	.0463672	-.003416	1.906436	.0415836	.0830394
Stddev	.003274	.30337	.0003498	.001249	.390766	.0025845	.0034579
%RSD	.2369175	.3141876	.7543974	36.56891	20.49722	6.215238	4.164215
#1	1.378727	96.21000	.0467086	-.003551	1.762210	.0436062	.0802970
#2	1.385274	96.77366	.0463833	-.002104	2.348816	.0424727	.0869239
#3	1.381895	96.68631	.0460096	-.004591	1.608282	.0386719	.0818973

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-2.07232	.8801039	-.002965	.0072201	6.775738	2.236304	.0087582
Stddev	.19138	.0028042	.000759	.0001103	.030613	.028317	.0004644
%RSD	9.235320	.3186193	25.59577	1.527994	.4518034	1.266236	5.302188
#1	-2.28442	.8769159	-.002089	.0073405	6.746177	2.205138	.0083903
#2	-2.02001	.8812070	-.003414	.0071238	6.773732	2.260452	.0092800
#3	-1.91252	.8821888	-.003393	.0071961	6.807304	2.243321	.0086042

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4976-08DLX2 Acquired: 12/13/2024 14:16:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3967174	.5432156	-.000594
Stddev	.0035408	.0023558	.003412
%RSD	.8925246	.4336789	574.8337
#1	.3934867	.5405672	-.004046
#2	.3961627	.5440023	-.000512
#3	.4005028	.5450775	.002777

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2315.666	25612.22	2315.389	1863.677	2818.283
Stddev	4.311	92.75	14.756	7.950	2.506
%RSD	.1861575	.3621197	.6372864	.4265957	.0889173
#1	2310.751	25505.48	2332.190	1855.241	2815.424
#2	2317.443	25673.13	2304.536	1871.031	2820.099
#3	2318.804	25658.04	2309.440	1864.760	2819.326

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4976-09DLX2 Acquired: 12/13/2024 14:20:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E4D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0771557	.0259619	.0323999	-.038265	-.008515	9.784698	.0492768
Stddev	.0020516	.0014802	.0010929	.002304	.004049	.019614	.0007261
%RSD	2.658985	5.701294	3.373210	6.020155	47.55033	.2004535	1.473434
#1	.0751255	.0245953	.0336611	-.039312	-.008610	9.807332	.0500983
#2	.0792280	.0257562	.0318099	-.035624	-.004419	9.772690	.0487212
#3	.0771138	.0275341	.0317289	-.039860	-.012515	9.774073	.0490108

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010264	.0005491	614.4584	.0268152	.0534151	.0315050	32.05268
Stddev	.0000518	.0001195	.8765	.0004529	.0008646	.0025000	.13625
%RSD	5.043667	21.75463	.1426380	1.688968	1.618668	7.935127	.4250864
#1	.0010861	.0004149	615.4703	.0265674	.0535019	.0343910	32.16265
#2	.0009946	.0006439	613.9377	.0273379	.0542331	.0300095	31.90026
#3	.0009984	.0005886	613.9673	.0265402	.0525104	.0301144	32.09515

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.374130	95.08181	.0464416	-.003276	2.502885	.0346578	.0944843
Stddev	.003139	.36097	.0005278	.001706	.477842	.0098093	.0064004
%RSD	.2284092	.3796440	1.136519	52.09198	19.09164	28.30338	6.773994
#1	1.377691	95.49689	.0467202	-.002032	2.339222	.0298955	.0898639
#2	1.371766	94.84138	.0458329	-.002574	3.041053	.0459392	.0917990
#3	1.372932	94.90715	.0467718	-.005221	2.128379	.0281388	.1017898

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-2.02336	.8642001	-.003139	.0070260	6.664110	2.153544	.0081204
Stddev	.05423	.0035898	.001784	.0001352	.011354	.009657	.0005503
%RSD	2.680186	.4153901	56.83750	1.924753	.1703736	.4484023	6.776912
#1	-1.96104	.8624561	-.002124	.0071794	6.673470	2.150541	.0087038
#2	-2.04921	.8618156	-.005199	.0069240	6.651480	2.164345	.0080470
#3	-2.05983	.8683287	-.002094	.0069746	6.667381	2.145745	.0076105

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4976-09DLX2 Acquired: 12/13/2024 14:20:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E4D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3871567	.5387951	.0033242
Stddev	.0013605	.0014448	.0022781
%RSD	.3514172	.2681496	68.52916
#1	.3880588	.5403855	.0009204
#2	.3878195	.5375636	.0036010
#3	.3855918	.5384361	.0054512

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2310.869	25525.61	2318.365	1862.789	2834.148
Stddev	2.721	106.23	14.410	9.217	4.303
%RSD	.1177629	.4161886	.6215472	.4948062	.1518373
#1	2311.965	25553.59	2309.200	1866.757	2834.975
#2	2312.871	25408.18	2310.921	1852.252	2837.978
#3	2307.770	25615.05	2334.974	1869.358	2829.491

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4976-08LDLX10 Acquired: 12/13/2024 14:24:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E4L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0131955	.0170799	.0104596	-.021526	-.004826	2.009906	.0113304
Stddev	.0035438	.0015440	.0013396	.004316	.002484	.010132	.0008909
%RSD	26.85610	9.039569	12.80733	20.04939	51.47178	.5041121	7.862801
#1	.0169739	.0182522	.0105026	-.026510	-.004643	2.011102	.0104568
#2	.0126666	.0176569	.0117771	-.018976	-.007396	2.019386	.0122376
#3	.0099458	.0153305	.0090989	-.019093	-.002438	1.999228	.0112969

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002502	.0001363	126.1804	.0053189	.0286409	.0045750	6.784619
Stddev	.0000870	.0001132	.4203	.0007937	.0002541	.0058029	.046998
%RSD	34.77773	83.02360	.3331152	14.92184	.8872630	126.8398	.6927137
#1	.0002291	.0001225	126.5811	.0044218	.0289211	.0004361	6.837612
#2	.0001757	.0002558	125.7429	.0056049	.0285763	.0020809	6.768255
#3	.0003459	.0000307	126.2173	.0059299	.0284254	.0112079	6.747991

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2889153	19.94959	.0079831	-.000002	2.498912	.0088786	.0261381
Stddev	.0038530	.22487	.0001148	.000707	.189960	.0020265	.0067666
%RSD	1.333594	1.127180	1.438046	41891.60	7.601711	22.82443	25.88801
#1	.2925010	20.13214	.0078508	-.000794	2.384586	.0096132	.0272836
#2	.2848416	19.69840	.0080561	.000224	2.393958	.0065873	.0322588
#3	.2894035	20.01822	.0080424	.000565	2.718192	.0104354	.0188718

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.701339	.1617173	-.008865	.0018764	1.255046	.4308936	.0011218
Stddev	.130869	.0024595	.001529	.0000801	.003001	.0023889	.0003420
%RSD	18.65987	1.520852	17.25286	4.270267	.2390995	.5544072	30.49197
#1	-.603611	.1637569	-.007404	.0019049	1.258322	.4335812	.0007549
#2	-.850021	.1589860	-.010455	.0017859	1.254386	.4300882	.0011785
#3	-.650385	.1624088	-.008737	.0019383	1.252430	.4290116	.0014319

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4976-08LDLX10 Acquired: 12/13/2024 14:24:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E4L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0768611	.1102401	-.036431
Stddev	.0031262	.0004021	.000657
%RSD	4.067331	.3647467	1.802789
#1	.0775998	.1107015	-.037182
#2	.0734318	.1099650	-.035963
#3	.0795519	.1100536	-.036148

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2358.847	25953.73	2308.127	1908.833	3098.411
Stddev	5.180	36.17	10.060	7.711	3.130
%RSD	.2196004	.1393506	.4358463	.4039544	.1010148
#1	2357.776	25990.74	2299.741	1914.862	3097.217
#2	2364.478	25951.97	2319.281	1900.145	3101.962
#3	2354.285	25918.47	2305.359	1911.493	3096.053

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4976-10DLX2 Acquired: 12/13/2024 14:28:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E4S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1164446	.0762637	.0506031	.0500173	.0781496	11.54945	2.008972
Stddev	.0029385	.0017427	.0003512	.0043112	.0019841	.02315	.005921
%RSD	2.523479	2.285035	.6939689	8.619366	2.538825	.2004190	.2947361
#1	.1130807	.0781463	.0508252	.0540721	.0797727	11.52348	2.006214
#2	.1185108	.0759375	.0501983	.0504909	.0787383	11.56792	2.015769
#3	.1177423	.0747071	.0507858	.0454889	.0759378	11.55694	2.004933

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0498160	.0479962	604.8237	.2291961	.5206578	.2599428	32.58963
Stddev	.0002661	.0000504	.9788	.0013052	.0004554	.0067962	.12705
%RSD	.5342695	.1049951	.1618244	.5694528	.0874730	2.614496	.3898610
#1	.0499231	.0479615	604.6482	.2306218	.5211726	.2575903	32.59316
#2	.0500119	.0480540	605.8784	.2289064	.5204933	.2546354	32.71489
#3	.0495130	.0479732	603.9447	.2280601	.5203074	.2676027	32.46085

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.842680	93.74917	.5262088	.0373484	1.900902	.5440144	.5163453
Stddev	.003215	.38440	.0012565	.0002945	.600165	.0062975	.0052401
%RSD	.1744769	.4100332	.2387876	.7885087	31.57263	1.157604	1.014850
#1	1.841528	93.64994	.5269938	.0376094	1.208880	.5508999	.5203397
#2	1.846313	94.17345	.5268730	.0374068	2.214862	.5385465	.5182842
#3	1.840201	93.42411	.5247596	.0370291	2.278963	.5425968	.5104120

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-2.26808	.8387321	-.005118	.0067320	6.454861	2.162972	.0087402
Stddev	.10056	.0005587	.001035	.0001446	.008450	.010304	.0013376
%RSD	4.433837	.0666159	20.21290	2.147475	.1309110	.4763653	15.30379
#1	-2.25005	.8383552	-.006145	.0065750	6.462067	2.159968	.0095569
#2	-2.37644	.8393740	-.004076	.0067615	6.445561	2.174444	.0094671
#3	-2.17776	.8384671	-.005133	.0068596	6.456956	2.154504	.0071966

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4976-10DLX2 Acquired: 12/13/2024 14:28:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E4S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3821561	.5254286	-.004824
Stddev	.0058339	.0012384	.005308
%RSD	1.526567	.2357006	110.0229
#1	.3875595	.5240676	-.009922
#2	.3829380	.5264891	-.005221
#3	.3759707	.5257292	.000671

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2291.805	25529.40	2308.033	1861.540	2823.382
Stddev	4.721	41.63	11.297	7.445	7.224
%RSD	.2059978	.1630667	.4894486	.3999475	.2558601
#1	2287.244	25571.33	2309.573	1858.710	2819.262
#2	2291.500	25488.07	2296.045	1869.985	2819.160
#3	2296.672	25528.79	2318.480	1855.925	2831.723

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4976-11DLX2 Acquired: 12/13/2024 14:32:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0085282	.0274606	.0327110	-.039844	-.004163	8.220543	.0495964
Stddev	.0043875	.0019574	.0003455	.003973	.002525	.040516	.0011315
%RSD	51.44750	7.128135	1.056183	9.970837	60.65472	.4928602	2.281365
#1	.0102375	.0295351	.0330897	-.042797	-.004572	8.256545	.0505608
#2	.0035432	.0272005	.0326301	-.035327	-.001459	8.228417	.0498775
#3	.0118037	.0256463	.0324131	-.041408	-.006459	8.176669	.0483509

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008811	.0008059	757.5884	.0240410	.0515609	.0303164	34.90334
Stddev	.0001038	.0000891	3.8029	.0005485	.0002620	.0076913	.28188
%RSD	11.77649	11.05827	.5019802	2.281483	.5081644	25.36997	.8075979
#1	.0008561	.0008885	761.9671	.0246715	.0517304	.0330966	35.22489
#2	.0007921	.0007114	755.1114	.0236739	.0512591	.0216216	34.78627
#3	.0009950	.0008176	755.6867	.0237777	.0516932	.0362309	34.69887

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.471941	231.2073	.0384943	-.003367	2.560393	.0269118	.0629267
Stddev	.019743	.9900	.0002335	.000508	.974839	.0120948	.0042167
%RSD	.7986641	.4281771	.6065543	15.09202	38.07380	44.94246	6.700939
#1	2.494737	232.2642	.0382589	-.003950	3.358981	.0394697	.0629442
#2	2.460639	231.0560	.0387258	-.003012	1.474074	.0153405	.0671347
#3	2.460446	230.3017	.0384981	-.003141	2.848125	.0259251	.0587013

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-2.09726	1.006069	.0063602	.0038518	1.759891	1.896108	.0091926
Stddev	.09628	.007610	.0032609	.0007605	.006963	.020992	.0016372
%RSD	4.590553	.7564432	51.27067	19.74495	.3956363	1.107100	17.80961
#1	-2.00708	.999819	.0101082	.0033155	1.751853	1.919554	.0109266
#2	-2.08604	1.003844	.0041737	.0035177	1.763767	1.879059	.0089778
#3	-2.19865	1.014544	.0047986	.0047222	1.764054	1.889712	.0076735

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4976-11DLX2 Acquired: 12/13/2024 14:32:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2076161	.4704281	.0083621
Stddev	.0042742	.0024855	.0056525
%RSD	2.058711	.5283505	67.59705
#1	.2054987	.4730635	.0033834
#2	.2048139	.4681261	.0145067
#3	.2125357	.4700948	.0071962

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2238.467	24938.20	2264.346	1796.811	2666.763
Stddev	3.902	96.16	16.737	7.090	3.263
%RSD	.1743027	.3856071	.7391459	.3946146	.1223428
#1	2240.882	24993.66	2247.604	1793.079	2669.389
#2	2233.965	24827.16	2264.356	1792.366	2663.110
#3	2240.553	24993.79	2281.078	1804.988	2667.790

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4976-12DLX2 Acquired: 12/13/2024 14:36:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0188990	.0247484	.0382740	-.034207	-.003539	11.24867	.0485855
Stddev	.0028985	.0019090	.0013775	.004016	.001171	.03721	.0006484
%RSD	15.33705	7.713597	3.598935	11.73910	33.09388	.3308230	1.334522
#1	.0164782	.0233208	.0396436	-.030637	-.003172	11.21503	.0478949
#2	.0181077	.0240076	.0382897	-.033431	-.004849	11.28864	.0486806
#3	.0221109	.0269167	.0368888	-.038555	-.002595	11.24234	.0491811

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013886	.0008683	575.2010	.0404995	.0558820	.0334981	48.24217
Stddev	.0001432	.0001106	1.7532	.0005453	.0005259	.0010909	.12508
%RSD	10.30954	12.74147	.3047990	1.346391	.9410818	3.256559	.2592737
#1	.0012781	.0008694	574.7315	.0400661	.0561304	.0326692	48.16721
#2	.0013375	.0007571	577.1411	.0411118	.0562376	.0330912	48.38656
#3	.0015504	.0009784	573.7303	.0403208	.0552779	.0347340	48.17273

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.299820	132.6021	.0625653	-.004886	2.583062	.0537913	.0999537
Stddev	.001347	.3010	.0002231	.001409	.708938	.0052986	.0029147
%RSD	.1036043	.2269727	.3565479	28.82952	27.44566	9.850205	2.916067
#1	1.301119	132.3993	.0624499	-.005712	2.977111	.0545141	.1021181
#2	1.299911	132.9479	.0624237	-.003260	1.764637	.0586914	.1011035
#3	1.298430	132.4592	.0628225	-.005687	3.007437	.0481685	.0966394

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.96843	1.371671	.0013914	.0037426	.6036114	1.797932	.0092835
Stddev	.20500	.001936	.0019935	.0006092	.0078663	.010962	.0013729
%RSD	10.41447	.1411062	143.2786	16.27685	1.303212	.6097180	14.78899
#1	-2.06195	1.372388	.0036768	.0041087	.5955090	1.801049	.0077478
#2	-1.73335	1.373146	.0000110	.0040798	.6112182	1.806999	.0097104
#3	-2.10999	1.369479	.0004862	.0030394	.6041070	1.785749	.0103923

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4976-12DLX2 Acquired: 12/13/2024 14:36:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4523248	.3747319	.0056627
Stddev	.0022206	.0012279	.0049350
%RSD	.4909246	.3276630	87.15068
#1	.4498008	.3738907	.0026908
#2	.4531959	.3741640	.0029377
#3	.4539778	.3761409	.0113594

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2301.059	25506.64	2309.463	1852.254	2794.999
Stddev	1.061	51.79	9.380	7.387	3.398
%RSD	.0461034	.2030307	.4061539	.3988037	.1215698
#1	2300.472	25463.28	2308.914	1850.219	2791.131
#2	2302.284	25563.98	2300.369	1860.445	2797.506
#3	2300.422	25492.66	2319.105	1846.098	2796.358

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4976-13DLX2 Acquired: 12/13/2024 14:39:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0114809	.0243317	.0309435	-.036645	-.005688	6.418380	.0357136
Stddev	.0010403	.0018890	.0014920	.001162	.003824	.021995	.0000735
%RSD	9.060772	7.763612	4.821549	3.170454	67.22948	.3426851	.2059129
#1	.0123913	.0243708	.0296702	-.036553	-.009953	6.434252	.0357709
#2	.0117043	.0262008	.0305753	-.037851	-.004545	6.393273	.0357392
#3	.0103471	.0224234	.0325851	-.035533	-.002566	6.427614	.0356307

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008502	.0005708	499.3104	.0183341	.0452591	.0263491	25.75451
Stddev	.0000503	.0000670	2.0839	.0003681	.0008555	.0021670	.19539
%RSD	5.920781	11.73090	.4173626	2.007930	1.890257	8.224174	.7586816
#1	.0007935	.0004978	501.7157	.0183737	.0459629	.0262370	25.95670
#2	.0008673	.0006294	498.1676	.0179477	.0455074	.0285700	25.74010
#3	.0008897	.0005852	498.0479	.0186808	.0443069	.0242404	25.56671

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.550509	136.6648	.0312667	-.002429	2.048268	.0259579	.0614416
Stddev	.010243	.9378	.0007637	.001026	.835525	.0087143	.0085246
%RSD	.6606395	.6861890	2.442654	42.23523	40.79177	33.57088	13.87441
#1	1.561480	137.7410	.0315946	-.003541	3.012477	.0348308	.0516107
#2	1.548852	136.2301	.0318117	-.002225	1.537396	.0174113	.0659271
#3	1.541195	136.0233	.0303938	-.001520	1.594932	.0256316	.0667869

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-2.15673	.7512583	.0063598	.0023305	.5390219	1.428579	.0065594
Stddev	.11455	.0047431	.0031927	.0002845	.0018969	.014940	.0001361
%RSD	5.311196	.6313482	50.20053	12.20630	.3519213	1.045823	2.074937
#1	-2.03496	.7459572	.0074275	.0024325	.5401067	1.445696	.0064125
#2	-2.26235	.7551006	.0088818	.0020091	.5401274	1.421880	.0065844
#3	-2.17288	.7527170	.0027701	.0025499	.5368315	1.418160	.0066812

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4976-13DLX2 Acquired: 12/13/2024 14:39:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1842792	.4008843	-.002216
Stddev	.0040404	.0018726	.003776
%RSD	2.192521	.4671247	170.4354
#1	.1854229	.4029140	-.003759
#2	.1876244	.4005151	-.004976
#3	.1797902	.3992237	.002088

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2320.740	25669.80	2342.375	1863.067	2828.690
Stddev	9.401	47.96	16.068	9.362	8.949
%RSD	.4051007	.1868221	.6859809	.5024994	.3163685
#1	2327.206	25724.90	2326.930	1873.504	2833.650
#2	2325.059	25637.46	2341.193	1855.409	2834.062
#3	2309.955	25647.05	2359.001	1860.290	2818.360

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4976-14DLX2 Acquired: 12/13/2024 14:43:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0167227	.0294232	.0381796	-.034905	-.001462	11.38037	.0541580
Stddev	.0030868	.0026260	.0008322	.005719	.001432	.07709	.0006266
%RSD	18.45850	8.924887	2.179777	16.38512	97.95822	.6774076	1.156886
#1	.0179360	.0304780	.0383074	-.030745	-.001340	11.35485	.0547457
#2	.0190184	.0264338	.0389405	-.041427	-.002950	11.31927	.0534987
#3	.0132136	.0313577	.0372908	-.032543	-.000095	11.46698	.0542297

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013163	.0006777	640.0508	.0386425	.0537325	.0320144	40.37883
Stddev	.0002384	.0000816	1.1502	.0004000	.0000686	.0085950	.11212
%RSD	18.10947	12.04429	.1797087	1.035232	.1276997	26.84717	.2776746
#1	.0013735	.0006236	641.3784	.0382345	.0536655	.0356261	40.49894
#2	.0010545	.0007716	639.4205	.0386590	.0537293	.0222029	40.36062
#3	.0015208	.0006379	639.3536	.0390341	.0538026	.0382142	40.27693

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.510437	105.9647	.0533270	-.004306	2.027300	.0483557	.1184442
Stddev	.001553	.3612	.0004785	.001493	.669220	.0085283	.0010390
%RSD	.1028441	.3409015	.8972753	34.67760	33.01041	17.63663	.8771623
#1	1.509486	105.5476	.0536182	-.005260	1.332710	.0579279	.1172827
#2	1.512230	106.1773	.0527748	-.005073	2.667876	.0455726	.1187648
#3	1.509596	106.1693	.0535881	-.002585	2.081314	.0415667	.1192851

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.77318	1.193661	-.001856	.0014121	2.092742	3.095237	.0098180
Stddev	.08035	.002938	.001627	.0007265	.009014	.035524	.0011275
%RSD	4.531445	.2461651	87.66537	51.44613	.4307295	1.147714	11.48449
#1	-1.82115	1.190476	-.000738	.0021174	2.101268	3.054789	.0086032
#2	-1.68042	1.194240	-.001108	.0014528	2.083308	3.109547	.0108310
#3	-1.81797	1.196267	-.003723	.0006661	2.093649	3.121375	.0100197

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4976-14DLX2 Acquired: 12/13/2024 14:43:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5055650	.4419070	.0027381
Stddev	.0103436	.0006425	.0039974
%RSD	2.045942	.1453861	145.9927
#1	.5143451	.4411732	.0055075
#2	.5081872	.4421798	-.001845
#3	.4941627	.4423681	.004551

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2302.428	25495.74	2334.810	1858.927	2785.142
Stddev	2.285	26.46	1.927	4.542	5.134
%RSD	.0992476	.1037862	.0825404	.2443520	.1843312
#1	2300.787	25475.64	2336.986	1857.000	2784.490
#2	2305.038	25485.87	2334.126	1855.666	2790.571
#3	2301.459	25525.72	2333.318	1864.115	2780.365

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4976-15DLX2 Acquired: 12/13/2024 14:47:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0527370	.0225593	.0421047	-.035860	-.001199	9.873962	.0532967
Stddev	.0002316	.0038311	.0016838	.002144	.001736	.020650	.0005288
%RSD	.4392647	16.98219	3.999126	5.978756	144.7536	.2091318	.9920843
#1	.0524894	.0181482	.0410043	-.038275	.000657	9.896573	.0535765
#2	.0527731	.0250541	.0412667	-.034182	-.002783	9.856101	.0526869
#3	.0529484	.0244757	.0440431	-.035122	-.001471	9.869214	.0536268

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015956	.0009112	513.2995	.0259717	.0576167	.0451198	46.16695
Stddev	.0000240	.0000930	1.9114	.0009803	.0002034	.0043116	.25761
%RSD	1.502854	10.20352	.3723710	3.774534	.3530515	9.555974	.5580007
#1	.0015834	.0009868	515.4954	.0251014	.0575789	.0430712	46.45279
#2	.0015802	.0008074	512.0101	.0257799	.0578364	.0422144	46.09535
#3	.0016233	.0009394	512.3928	.0270337	.0574349	.0500738	45.95271

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.309381	102.4761	.0647897	-.004128	2.273350	.0675717	.1086212
Stddev	.007520	.3505	.0007001	.000231	.462584	.0082698	.0065277
%RSD	.5742978	.3420481	1.080584	5.596628	20.34813	12.23861	6.009553
#1	1.318059	102.8627	.0644225	-.003863	1.809905	.0705859	.1072241
#2	1.304791	102.3866	.0643496	-.004288	2.275078	.0739116	.1029052
#3	1.305293	102.1790	.0655970	-.004233	2.735068	.0582175	.1157343

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-2.03626	.9106752	-.003683	.0069874	5.456206	2.338913	.0082466
Stddev	.08258	.0011805	.001098	.0006922	.022376	.012491	.0011225
%RSD	4.055276	.1296336	29.81412	9.906161	.4101070	.5340547	13.61136
#1	-2.12520	.9115565	-.003861	.0077391	5.470740	2.353067	.0072139
#2	-2.02157	.9093339	-.004681	.0068467	5.430439	2.329433	.0094412
#3	-1.96201	.9111353	-.002507	.0063763	5.467440	2.334237	.0080846

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4976-15DLX2 Acquired: 12/13/2024 14:47:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4524635	.4408509	-.006553
Stddev	.0067796	.0024918	.006123
%RSD	1.498370	.5652236	93.44476
#1	.4590895	.4437277	-.000695
#2	.4527610	.4394570	-.006052
#3	.4455401	.4393680	-.012911

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2309.106	25739.74	2330.451	1872.882	2826.984
Stddev	4.433	97.28	6.692	3.972	4.082
%RSD	.1919839	.3779298	.2871468	.2120931	.1443844
#1	2305.284	25840.43	2323.161	1875.299	2823.199
#2	2308.069	25646.28	2336.314	1875.050	2831.309
#3	2313.966	25732.49	2331.880	1868.298	2826.445

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4976-16DLX2 Acquired: 12/13/2024 14:51:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0189553	.0242091	.0321744	-.039122	-.006387	7.692188	.0493907
Stddev	.0042631	.0013193	.0009226	.001775	.002004	.090643	.0010190
%RSD	22.49003	5.449450	2.867587	4.536729	31.37895	1.178375	2.063187
#1	.0228770	.0248805	.0311641	-.041166	-.005672	7.757005	.0502323
#2	.0144179	.0250576	.0329722	-.038225	-.008650	7.588609	.0482577
#3	.0195710	.0226892	.0323870	-.037974	-.004838	7.730950	.0496820

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010481	.0005435	437.6197	.0205295	.0475433	.0328097	30.64942
Stddev	.0001455	.0000567	5.0847	.0006393	.0002632	.0035124	.37906
%RSD	13.88686	10.43183	1.161899	3.114130	.5535760	10.70552	1.236753
#1	.0010296	.0006049	442.4081	.0201937	.0474602	.0287620	31.02060
#2	.0009127	.0005323	432.2831	.0201280	.0478380	.0346119	30.26295
#3	.0012020	.0004932	438.1677	.0212667	.0473317	.0350553	30.66471

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.042680	102.6314	.0400235	-.003047	1.661228	.0341700	.0769561
Stddev	.006236	1.1470	.0008628	.000539	.444398	.0096597	.0033059
%RSD	.5980459	1.117617	2.155606	17.69778	26.75121	28.26958	4.295868
#1	1.049548	103.5500	.0397954	-.003363	1.595119	.0235576	.0737698
#2	1.037373	101.3458	.0409773	-.002424	2.134977	.0424499	.0767286
#3	1.041118	102.9985	.0392976	-.003353	1.253587	.0365024	.0803699

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-2.44545	.7971072	-.002123	.0037208	.4889631	1.488945	.0078993
Stddev	.10542	.0012846	.001748	.0003183	.0063547	.019157	.0015693
%RSD	4.310777	.1611633	82.36291	8.553586	1.299625	1.286585	19.86655
#1	-2.36922	.7968594	-.003568	.0039619	.4831505	1.507439	.0096392
#2	-2.56575	.7959645	-.000180	.0033600	.4879910	1.469188	.0074677
#3	-2.40137	.7984977	-.002620	.0038404	.4957478	1.490209	.0065909

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4976-16DLX2 Acquired: 12/13/2024 14:51:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2634164	.3491803	-.009297
Stddev	.0019715	.0031490	.004302
%RSD	.7484513	.9018116	46.26733
#1	.2616015	.3519294	-.010129
#2	.2631336	.3457448	-.004641
#3	.2655140	.3498669	-.013123

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2324.437	25797.57	2327.688	1870.081	2867.379
Stddev	4.702	12.51	29.616	3.141	4.646
%RSD	.2022847	.0484984	1.272326	.1679731	.1620157
#1	2320.251	25811.89	2299.213	1872.781	2863.045
#2	2323.536	25788.79	2358.326	1866.633	2866.809
#3	2329.525	25792.02	2325.526	1870.829	2872.284

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4976-17DLX2 Acquired: 12/13/2024 14:55:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0184531	.0226001	.0319801	-.034399	-.005274	6.708565	.0471278
Stddev	.0030853	.0031753	.0011189	.002236	.001293	.013957	.0006899
%RSD	16.71980	14.04984	3.498734	6.499206	24.51302	.2080455	1.463970
#1	.0217839	.0238401	.0307123	-.035466	-.004376	6.704934	.0470481
#2	.0156929	.0249683	.0328294	-.035901	-.004691	6.696782	.0478541
#3	.0178825	.0189920	.0323985	-.031830	-.006756	6.723978	.0464811

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010110	.0005315	435.9201	.0182291	.0462706	.0247324	29.87933
Stddev	.0000463	.0000822	1.0206	.0015010	.0004107	.0050354	.05515
%RSD	4.583144	15.45973	.2341364	8.234258	.8875410	20.35937	.1845806
#1	.0009735	.0005581	434.7495	.0166317	.0466273	.0220108	29.82810
#2	.0009969	.0005971	436.6237	.0196103	.0463629	.0305428	29.93770
#3	.0010628	.0004393	436.3870	.0184452	.0458216	.0216435	29.87219

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9272842	124.0904	.0365416	-.003479	2.405587	.0311140	.0669354
Stddev	.0004847	.3349	.0006020	.001138	.632019	.0026358	.0025138
%RSD	.0522665	.2698535	1.647526	32.70846	26.27296	8.471543	3.755553
#1	.9277500	123.7105	.0371179	-.002847	2.953113	.0280797	.0640373
#2	.9273199	124.2181	.0365900	-.002798	2.549687	.0328370	.0682440
#3	.9267826	124.3426	.0359168	-.004793	1.713961	.0324252	.0685250

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.83120	.7149780	-.000876	.0034673	.4671884	1.916343	.0088354
Stddev	.10225	.0027271	.001190	.0007018	.0049495	.006746	.0011115
%RSD	5.583575	.3814259	135.8801	20.23956	1.059420	.3520370	12.57975
#1	-1.75438	.7120285	-.002250	.0030817	.4724840	1.919833	.0096622
#2	-1.79198	.7174079	-.000240	.0042774	.4664021	1.908567	.0075719
#3	-1.94725	.7154976	-.000139	.0030429	.4626792	1.920630	.0092722

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4976-17DLX2 Acquired: 12/13/2024 14:55:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2955867	.2984984	-.005830
Stddev	.0020326	.0008231	.002473
%RSD	.6876364	.2757428	42.41590
#1	.2970465	.2980043	-.003169
#2	.2964484	.2980424	-.006264
#3	.2932653	.2994486	-.008057

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2296.804	25421.05	2294.157	1845.503	2827.057
Stddev	5.754	42.22	5.453	7.697	8.895
%RSD	.2505050	.1661019	.2376906	.4170922	.3146237
#1	2292.382	25464.46	2292.126	1853.542	2821.678
#2	2303.309	25418.57	2300.333	1838.200	2837.324
#3	2294.720	25380.12	2290.010	1844.767	2822.169

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4976-18DLX2 Acquired: 12/13/2024 14:59:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0130879	.0240918	.0410852	-.030563	-.005995	10.60076	.0506487
Stddev	.0021151	.0015478	.0017331	.004753	.001890	.03022	.0008296
%RSD	16.16104	6.424803	4.218365	15.55113	31.51904	.2850572	1.637869
#1	.0106470	.0256984	.0424911	-.028959	-.007185	10.56596	.0516013
#2	.0143824	.0226103	.0391488	-.026819	-.006984	10.62042	.0502601
#3	.0142342	.0239667	.0416156	-.035910	-.003816	10.61590	.0500848

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012797	.0008356	566.4273	.0313114	.0520927	.0460509	37.88715
Stddev	.0000291	.0000103	1.5146	.0008142	.0004427	.0013120	.08356
%RSD	2.269995	1.228434	.2673935	2.600287	.8497702	2.849119	.2205447
#1	.0012464	.0008444	565.7515	.0309359	.0518550	.0450242	37.88493
#2	.0012998	.0008379	568.1621	.0322456	.0518196	.0475290	37.97179
#3	.0012928	.0008243	565.3682	.0307528	.0526034	.0455994	37.80472

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.129385	128.7065	.0600191	-.005428	1.501755	.0406109	.1172274
Stddev	.008322	.4481	.0007846	.000722	.488348	.0077605	.0075311
%RSD	.7368916	.3481588	1.307208	13.31092	32.51846	19.10938	6.424347
#1	1.124576	128.4804	.0592842	-.006007	1.792396	.0430052	.1085689
#2	1.138995	129.2226	.0599278	-.004618	1.774919	.0319354	.1208569
#3	1.124584	128.4166	.0608453	-.005657	.937950	.0468922	.1222566

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.69480	1.573609	-.000360	.0035414	.8131618	2.392058	.0085297
Stddev	.04827	.005440	.000447	.0000824	.0035104	.017425	.0018343
%RSD	2.848398	.3456848	124.1152	2.327072	.4316989	.7284464	21.50491
#1	-1.74057	1.567555	.000017	.0034548	.8092042	2.373078	.0069862
#2	-1.64436	1.575183	-.000854	.0036189	.8158998	2.407332	.0105576
#3	-1.69947	1.578087	-.000243	.0035504	.8143813	2.395763	.0080454

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4976-18DLX2 Acquired: 12/13/2024 14:59:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3666141	.4280895	.0049120
Stddev	.0019766	.0020853	.0012818
%RSD	.5391508	.4871120	26.09532
#1	.3644962	.4258407	.0044792
#2	.3684098	.4299592	.0063542
#3	.3669363	.4284687	.0039026

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2339.545	25907.67	2358.684	1886.562	2807.650
Stddev	.991	76.76	17.289	10.436	6.337
%RSD	.0423429	.2962656	.7330112	.5531730	.2256955
#1	2340.224	25914.43	2376.658	1879.986	2813.360
#2	2340.002	25827.76	2342.172	1881.104	2808.759
#3	2338.408	25980.83	2357.221	1898.595	2800.832

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4976-19DLX2 Acquired: 12/13/2024 15:03:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0079428	.0228944	.0327258	-.031042	-.001770	10.87437	.0589973
Stddev	.0036728	.0038402	.0016967	.003803	.000077	.02157	.0013140
%RSD	46.24000	16.77343	5.184748	12.25116	4.357313	.1983497	2.227191
#1	.0120892	.0185083	.0345629	-.028979	-.001739	10.86354	.0582284
#2	.0050983	.0245233	.0312175	-.035431	-.001714	10.89921	.0605145
#3	.0066410	.0256516	.0323971	-.028716	-.001858	10.86036	.0582490

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011766	.0005340	440.4468	.0280604	.0534998	.0222132	40.99614
Stddev	.0000978	.0000305	.7373	.0004745	.0003429	.0047716	.12778
%RSD	8.309219	5.716063	.1674038	1.690916	.6409647	21.48088	.3116799
#1	.0012729	.0005329	439.7371	.0277677	.0531272	.0275987	40.84997
#2	.0010774	.0005041	441.2090	.0286079	.0535698	.0185129	41.08661
#3	.0011795	.0005651	440.3945	.0278057	.0538023	.0205281	41.05185

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.125505	86.43481	.0477455	-.004438	2.030719	.0425703	.0930566
Stddev	.004268	.21766	.0005025	.000219	.170379	.0108207	.0065738
%RSD	.3791837	.2518240	1.052542	4.938077	8.390088	25.41835	7.064263
#1	1.124361	86.20689	.0481570	-.004678	2.087744	.0537494	.0904443
#2	1.130229	86.45703	.0471854	-.004249	1.839142	.0418139	.0881904
#3	1.121927	86.64052	.0478941	-.004387	2.165272	.0321477	.1005349

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-2.20240	1.173461	-.008503	.0026512	.7201396	2.167079	.0077064
Stddev	.14261	.002157	.003257	.0007969	.0098400	.010067	.0006205
%RSD	6.475329	.1837960	38.30481	30.05788	1.366400	.4645206	8.051706
#1	-2.29896	1.173380	-.005304	.0025944	.7164445	2.177068	.0081259
#2	-2.26964	1.171346	-.011816	.0018842	.7312923	2.167234	.0069936
#3	-2.03860	1.175657	-.008390	.0034749	.7126820	2.156936	.0079997

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4976-19DLX2 Acquired: 12/13/2024 15:03:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4198207	.3660749	-.002338
Stddev	.0035322	.0016156	.002916
%RSD	.8413629	.4413224	124.7323
#1	.4206199	.3646412	-.005309
#2	.4159573	.3657579	.000520
#3	.4228848	.3678254	-.002225

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2351.624	25984.57	2351.892	1903.407	2889.873
Stddev	3.849	79.76	10.277	8.396	6.561
%RSD	.1636661	.3069549	.4369833	.4410988	.2270400
#1	2348.519	25964.80	2348.254	1899.681	2883.105
#2	2355.930	25916.56	2343.927	1897.518	2896.205
#3	2350.423	26072.36	2363.493	1913.021	2890.309

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4976-20DLX2 Acquired: 12/13/2024 15:07:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0127113	.0275911	.0342882	-.037177	-.007606	8.698381	.0371943
Stddev	.0042769	.0049062	.0010413	.004390	.000808	.023827	.0009785
%RSD	33.64616	17.78196	3.036812	11.80825	10.62002	.2739259	2.630654
#1	.0081576	.0330044	.0335173	-.039456	-.008128	8.681669	.0382051
#2	.0133331	.0234375	.0354727	-.039958	-.006675	8.687810	.0371260
#3	.0166433	.0263314	.0338746	-.032116	-.008013	8.725665	.0362518

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009398	.0007211	586.5193	.0236631	.0524828	.0338992	32.48963
Stddev	.0000888	.0000551	1.0606	.0000976	.0002403	.0006016	.12476
%RSD	9.444111	7.638634	.1808319	.4126175	.4579253	1.774556	.3840024
#1	.0009224	.0006602	586.6652	.0236238	.0522571	.0343839	32.34565
#2	.0010360	.0007673	587.4994	.0235913	.0524558	.0332260	32.56576
#3	.0008611	.0007358	585.3933	.0237743	.0527355	.0340878	32.55749

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.227925	142.1656	.0432864	-.002717	1.370047	.0397274	.0754564
Stddev	.003468	.3397	.0011694	.000825	.660024	.0072869	.0036931
%RSD	.2823926	.2389121	2.701595	30.38004	48.17527	18.34227	4.894352
#1	1.224001	141.9778	.0445779	-.002249	.948893	.0402800	.0778625
#2	1.230576	142.5577	.0422993	-.003670	1.030530	.0321800	.0712042
#3	1.229198	141.9613	.0429819	-.002232	2.130718	.0467223	.0773023

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.93571	1.110054	.0017006	.0035090	.5667071	2.205335	.0073381
Stddev	.09348	.001711	.0007901	.0010753	.0056743	.003870	.0001417
%RSD	4.829224	.1541776	46.45827	30.64543	1.001280	.1754831	1.930864
#1	-1.85420	1.111900	.0009018	.0045474	.5686951	2.208954	.0072516
#2	-1.91518	1.108520	.0024817	.0035793	.5603063	2.205795	.0072610
#3	-2.03775	1.109743	.0017185	.0024002	.5711199	2.201255	.0075016

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4976-20DLX2 Acquired: 12/13/2024 15:07:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2927272	.4365598	-.000052
Stddev	.0012662	.0015010	.003315
%RSD	.4325615	.3438279	6433.527
#1	.2918254	.4355662	.001785
#2	.2941748	.4382865	-.003878
#3	.2921814	.4358266	.001938

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2290.293	25449.14	2312.381	1850.000	2787.438
Stddev	4.297	25.04	1.733	4.168	1.332
%RSD	.1876109	.0983835	.0749573	.2252916	.0477740
#1	2290.437	25454.67	2313.463	1854.317	2788.468
#2	2285.926	25421.79	2310.382	1849.685	2785.934
#3	2294.516	25470.94	2313.298	1845.999	2787.911

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: CCV008 Acquired: 12/13/2024 15:20:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV008 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.832434	4.835211	23.67267	4.613296	4.607277	376.3629	9.699976
Stddev	.013923	.014717	.02161	.007961	.009293	.5789	.011377
%RSD	.2881253	.3043751	.0912724	.1725683	.2017111	.1538094	.1172929
#1	4.816386	4.829859	23.67405	4.604391	4.612543	376.9062	9.712547
#2	4.841307	4.823920	23.65040	4.619724	4.596546	375.7540	9.690386
#3	4.839608	4.851856	23.69354	4.615772	4.612741	376.4286	9.696996

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4755117	2.368083	387.9585	14.68204	2.356428	14.58705	386.6692
Stddev	.0013204	.002849	.9223	.02635	.002509	.04669	1.4768
%RSD	.2776852	.1203236	.2377363	.1794614	.1064633	.3200519	.3819229
#1	.4761577	2.367969	389.0083	14.67781	2.359304	14.60008	388.2148
#2	.4739927	2.365292	387.2783	14.71025	2.354691	14.53523	385.2726
#3	.4763848	2.370987	387.5888	14.65807	2.355288	14.62583	386.5202

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.43774	377.1037	2.398116	1.211351	378.0306	2.413966	13.90199
Stddev	.03927	1.2178	.001694	.000949	1.0084	.009919	.10853
%RSD	.2720269	.3229440	.0706454	.0783110	.2667450	.4108969	.7806819
#1	14.46603	378.0054	2.400070	1.211618	378.5477	2.421040	13.96411
#2	14.39290	375.7183	2.397065	1.210297	376.8685	2.402628	13.77667
#3	14.45430	377.5872	2.397212	1.212137	378.6755	2.418229	13.96519

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	143.7481	4.744579	4.621142	4.580716	4.755141	4.685386	4.798433
Stddev	.5833	.005730	.004957	.003049	.010388	.005226	.005675
%RSD	.4057937	.1207717	.1072693	.0665665	.2184514	.1115459	.1182580
#1	144.3305	4.744865	4.626866	4.578752	4.745127	4.690942	4.804933
#2	143.1639	4.738711	4.618287	4.579168	4.754429	4.680569	4.795899
#3	143.7499	4.750161	4.618272	4.584229	4.765866	4.684646	4.794468

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: CCV008 Acquired: 12/13/2024 15:20:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV008 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	4.878999	4.570867	4.874411
Stddev	.011671	.012690	.026360
%RSD	.2392050	.2776231	.5407899
#1	4.887904	4.578953	4.865840
#2	4.865786	4.556241	4.853403
#3	4.883306	4.577407	4.903990

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1961.960	23792.11	2241.483	1635.787	2562.312
Stddev	3.285	54.47	12.386	12.751	6.126
%RSD	.1674207	.2289269	.5525603	.7794873	.2390757
#1	1958.176	23818.57	2238.075	1633.320	2555.863
#2	1964.085	23828.29	2255.216	1649.591	2568.053
#3	1963.618	23729.47	2231.158	1624.450	2563.021

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: CCB008 Acquired: 12/13/2024 15:24:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB008 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012549	-.000223	.0072482	-.001176	.0051597	.0743604
Stddev	.0023877	.002230	.0015070	.006136	.0016319	.0360020
%RSD	190.2664	1001.247	20.79063	521.9016	31.62789	48.41547
#1	.0036223	.001862	.0089430	.005897	.0037576	.0851436
#2	.0012952	-.002574	.0060592	-.005082	.0069510	.0341991
#3	-.001153	.000044	.0067424	-.004342	.0047705	.1037386

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034417	.0002209	.0005323	.0847939	.0047214	.0006758
Stddev	.0013515	.0000885	.0000723	.0214262	.0010869	.0001929
%RSD	39.26981	40.06897	13.58257	25.26850	23.02064	28.54859
#1	.0037537	.0001640	.0005433	.1051438	.0034683	.0004530
#2	.0019614	.0003228	.0005984	.0624333	.0052882	.0007841
#3	.0046099	.0001758	.0004551	.0868047	.0054078	.0007902

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041507	.0713477	.0030163	.1516880	.0000081	-.000346
Stddev	.0056571	.0021885	.0006245	.0229099	.0003082	.000679
%RSD	136.2929	3.067420	20.70341	15.10332	3793.534	195.9562
#1	-.002250	.0688321	.0037325	.1548353	-.000192	.000192
#2	.006224	.0723963	.0025852	.1728616	-.000146	-.000122
#3	.008479	.0728146	.0027314	.1273672	.000363	-.001109

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.325076	-.007286	.0100989	-.169086	.0002063	.0075800
Stddev	.959088	.006071	.0029224	.161148	.0021979	.0011106
%RSD	41.24972	83.32581	28.93773	95.30566	1065.372	14.65192
#1	3.366854	-.000277	.0067683	-.309859	.0027311	.0077351
#2	2.129570	-.010905	.0112943	.006686	-.000832	.0064000
#3	1.478805	-.010676	.0122340	-.204084	-.001280	.0086050

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: CCB008 Acquired: 12/13/2024 15:24:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB008 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010885	-.001874	-.037754	.0031265	.0003509	.0007248
Stddev	.0002056	.002019	.000490	.0006828	.0029208	.0003489
%RSD	18.88571	107.7618	1.296819	21.84020	832.3456	48.13780
#1	.0008603	-.000022	-.037355	.0038998	.0027168	.0005244
#2	.0012592	-.001572	-.037607	.0028732	-.002914	.0005224
#3	.0011459	-.004027	-.038301	.0026065	.001250	.0011277

Elem	Li6707
Units	ppm
Avg	F -.022323
Stddev	.002922
%RSD	13.08829
#1	-.019196
#2	-.022790
#3	-.024983

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2383.836	26126.76	2304.102	1932.243	3222.572
Stddev	6.946	181.48	.746	14.654	6.552
%RSD	.2913820	.6946191	.0323885	.7583850	.2033206
#1	2376.321	26111.28	2304.893	1936.114	3217.126
#2	2385.166	25953.51	2303.411	1916.042	3220.746
#3	2390.021	26315.49	2304.003	1944.572	3229.843

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4976-21DLX2 Acquired: 12/13/2024 15:28:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0151275	.0271677	.0376705	-.034871	-.003743	9.339418	.0441138
Stddev	.0011894	.0020979	.0033248	.000842	.000967	.022464	.0005166
%RSD	7.862424	7.721934	8.825923	2.414955	25.83026	.2405258	1.171081
#1	.0138487	.0266835	.0414956	-.035662	-.003039	9.358062	.0446135
#2	.0162007	.0294653	.0354741	-.034966	-.003345	9.314478	.0435818
#3	.0153331	.0253542	.0360418	-.033986	-.004845	9.345714	.0441463

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013049	.0007038	562.1336	.0265154	.0537278	.0441575	36.27063
Stddev	.0000696	.0000558	1.6947	.0006024	.0007202	.0007313	.14871
%RSD	5.334021	7.927512	.3014742	2.271721	1.340493	1.656069	.4100067
#1	.0012253	.0007074	563.9288	.0267299	.0535230	.0444734	36.37846
#2	.0013543	.0006463	560.5616	.0269812	.0531321	.0433214	36.33246
#3	.0013352	.0007578	561.9105	.0258352	.0545282	.0446778	36.10098

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.304850	127.1227	.0485383	-.003538	2.244361	.0407761	.0866877
Stddev	.002630	.3492	.0004295	.000995	.206690	.0066648	.0023154
%RSD	.2015293	.2746843	.8847999	28.11180	9.209321	16.34491	2.670928
#1	1.307885	127.5147	.0489845	-.002506	2.424974	.0433769	.0883264
#2	1.303410	127.0087	.0481279	-.003617	2.018943	.0457485	.0840389
#3	1.303255	126.8448	.0485024	-.004491	2.289165	.0332031	.0876978

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.63052	1.031527	.0115127	.0060090	.6358630	1.866127	.0082737
Stddev	.03484	.001384	.0011769	.0006883	.0036089	.010316	.0013020
%RSD	2.136979	.1342163	10.22257	11.45415	.5675552	.5528169	15.73633
#1	-1.67066	1.033070	.0123541	.0068021	.6368325	1.874912	.0071903
#2	-1.60807	1.030393	.0120162	.0055682	.6318683	1.868701	.0079127
#3	-1.61284	1.031117	.0101678	.0056567	.6388880	1.854767	.0097181

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4976-21DLX2 Acquired: 12/13/2024 15:28:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3246161	.4309692	.0040971
Stddev	.0061067	.0001778	.0055567
%RSD	1.881204	.0412556	135.6272
#1	.3310391	.4309784	-.001832
#2	.3239249	.4307870	.009186
#3	.3188845	.4311423	.004937

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2310.326	25660.90	2306.177	1869.633	2813.833
Stddev	8.049	77.80	8.420	1.641	7.448
%RSD	.3483828	.3032027	.3651026	.0877747	.2646986
#1	2317.902	25586.73	2300.862	1867.770	2822.283
#2	2311.201	25741.89	2301.784	1870.266	2808.223
#3	2301.876	25654.08	2315.884	1870.864	2810.991

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4977-01DLX2 Acquired: 12/13/2024 15:32:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0118438	.0246431	.0295035	-.035636	-.005508	9.005872	.0421867
Stddev	.0006725	.0007439	.0017921	.002420	.003237	.018704	.0007155
%RSD	5.678467	3.018636	6.074329	6.790934	58.77586	.2076874	1.695967
#1	.0114774	.0252630	.0275789	-.038063	-.003017	9.024730	.0422184
#2	.0126200	.0238182	.0311243	-.035622	-.009168	8.987325	.0414559
#3	.0114340	.0248481	.0298072	-.033223	-.004340	9.005562	.0428857

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009944	.0007233	572.8045	.0307929	.0493420	.0269066	32.09810
Stddev	.0001619	.0000190	1.6456	.0001617	.0004449	.0054173	.09269
%RSD	16.27867	2.626288	.2872821	.5249565	.9017291	20.13374	.2887619
#1	.0011423	.0007015	574.7028	.0309195	.0488594	.0325078	32.20493
#2	.0008214	.0007363	571.7828	.0306108	.0494305	.0216941	32.03904
#3	.0010195	.0007321	571.9278	.0308485	.0497360	.0265179	32.05034

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.125374	130.3002	.0426167	-.002838	2.241678	.0325942	.0836134
Stddev	.002692	.1857	.0005272	.000789	.147028	.0012692	.0042320
%RSD	.2391979	.1425207	1.237047	27.81065	6.558833	3.893844	5.061403
#1	1.127851	130.5006	.0430451	-.003745	2.075514	.0340497	.0832884
#2	1.122509	130.1339	.0420280	-.002465	2.294608	.0317185	.0879985
#3	1.125761	130.2661	.0427770	-.002305	2.354914	.0320144	.0795532

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.80942	1.053792	.0049506	.0016973	.5547321	1.730350	.0282713
Stddev	.10296	.003944	.0017765	.0002365	.0025863	.008293	.0010681
%RSD	5.690011	.3742456	35.88378	13.93335	.4662213	.4792606	3.778108
#1	-1.69056	1.051065	.0051101	.0019682	.5542346	1.731539	.0294036
#2	-1.86655	1.051996	.0030998	.0015317	.5575310	1.721527	.0272817
#3	-1.87114	1.058314	.0066419	.0015921	.5524308	1.737984	.0281288

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4977-01DLX2 Acquired: 12/13/2024 15:32:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2414894	.5336422	.0125145
Stddev	.0023927	.0025694	.0048987
%RSD	.9907976	.4814909	39.14436
#1	.2434919	.5363586	.0092786
#2	.2421365	.5333173	.0101143
#3	.2388397	.5312506	.0181504

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2293.192	25541.53	2311.514	1848.734	2794.689
Stddev	1.768	28.68	9.229	4.095	.912
%RSD	.0770789	.1122846	.3992500	.2215134	.0326380
#1	2294.820	25515.42	2303.280	1844.112	2793.904
#2	2291.312	25572.22	2321.489	1850.184	2794.475
#3	2293.442	25536.95	2309.772	1851.907	2795.690

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4977-02DLX2 Acquired: 12/13/2024 15:36:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0399562	.0306876	.0420121	-.035778	-.003663	10.65855	.1373482
Stddev	.0047301	.0019958	.0018149	.004460	.000517	.03729	.0005466
%RSD	11.83820	6.503547	4.319854	12.46661	14.11505	.3498845	.3979412
#1	.0367131	.0285417	.0428342	-.040303	-.003231	10.69301	.1376763
#2	.0377719	.0324882	.0399316	-.031386	-.003523	10.61896	.1376511
#3	.0453838	.0310328	.0432703	-.035644	-.004236	10.66368	.1367173

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010287	.0015424	591.8005	.0318427	.0586353	.0450321	50.28686
Stddev	.0001848	.0000470	2.0367	.0003841	.0003195	.0045536	.07087
%RSD	17.96469	3.048521	.3441456	1.206107	.5448198	10.11194	.1409256
#1	.0012418	.0015056	594.1398	.0322541	.0584821	.0420987	50.36852
#2	.0009302	.0015262	590.8402	.0317806	.0584213	.0502779	50.24151
#3	.0009139	.0015954	590.4216	.0314935	.0590025	.0427196	50.25055

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.365905	140.6940	.0847452	-.005053	2.330810	.0536939	.1163709
Stddev	.020230	.4049	.0007150	.000453	.563610	.0069132	.0099630
%RSD	.4633592	.2877910	.8436835	8.961468	24.18085	12.87526	8.561422
#1	4.384302	141.1571	.0851358	-.005022	1.886007	.0491635	.1232348
#2	4.369174	140.5182	.0851799	-.005520	2.964634	.0616512	.1209343
#3	4.344240	140.4067	.0839201	-.004616	2.141789	.0502672	.1049435

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.72134	1.331567	.0043299	.0052259	.6211125	1.911506	.0117469
Stddev	.08672	.005435	.0033611	.0003033	.0047549	.019441	.0005244
%RSD	5.038036	.4081345	77.62492	5.804029	.7655516	1.017046	4.464088
#1	-1.78615	1.335330	.0019729	.0054954	.6192587	1.930396	.0111414
#2	-1.75503	1.325337	.0028382	.0048975	.6265152	1.912564	.0120425
#3	-1.62282	1.334036	.0081788	.0052848	.6175638	1.891558	.0120566

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4977-02DLX2 Acquired: 12/13/2024 15:36:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4477197	.4615444	.0069334
Stddev	.0025990	.0018441	.0020170
%RSD	.5804879	.3995549	29.09138
#1	.4501168	.4630561	.0054870
#2	.4480847	.4620874	.0092375
#3	.4449575	.4594898	.0060757

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2339.190	25971.00	2355.707	1888.052	2814.935
Stddev	5.902	42.54	19.026	2.321	7.481
%RSD	.2522943	.1637889	.8076376	.1229417	.2657618
#1	2335.633	26004.86	2340.098	1887.065	2806.336
#2	2346.003	25923.25	2350.123	1890.703	2818.520
#3	2335.935	25984.89	2376.900	1886.386	2819.948

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4977-03DLX2 Acquired: 12/13/2024 15:40:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0103175	.0282171	.0272731	-.036582	-.010062	7.302943	.0375682
Stddev	.0018448	.0032647	.0016612	.002983	.002446	.035144	.0007096
%RSD	17.88036	11.56998	6.091074	8.153335	24.30626	.4812264	1.888922
#1	.0081900	.0255452	.0262392	-.034455	-.012033	7.331751	.0367968
#2	.0114737	.0318561	.0263907	-.035300	-.010829	7.313291	.0381933
#3	.0112889	.0272499	.0291893	-.039992	-.007325	7.263787	.0377146

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009031	.0004932	642.5023	.0198882	.0468505	.0197496	21.44758
Stddev	.0000281	.0000113	1.4267	.0005296	.0007513	.0056373	.15084
%RSD	3.111518	2.282726	.2220594	2.662943	1.603683	28.54374	.7032940
#1	.0009106	.0004913	643.5935	.0202934	.0461399	.0178081	21.59944
#2	.0009267	.0004829	643.0256	.0200822	.0467749	.0153397	21.29778
#3	.0008720	.0005052	640.8878	.0192889	.0476368	.0261011	21.44551

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.227888	97.40049	.0360224	-.002032	1.638617	.0288128	.0656471
Stddev	.006832	.61399	.0001408	.001274	.737085	.0053672	.0078861
%RSD	.5563895	.6303795	.3908975	62.70654	44.98212	18.62797	12.01291
#1	1.234139	97.51002	.0360859	-.000601	2.269591	.0245148	.0634581
#2	1.220595	97.95234	.0361203	-.003043	1.817800	.0270950	.0743965
#3	1.228929	96.73910	.0358610	-.002453	.828461	.0348287	.0590868

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-2.12549	.9528544	.0053813	.0027898	1.271944	1.845400	.0226226
Stddev	.13177	.0034713	.0011306	.0008684	.003388	.013550	.0013036
%RSD	6.199394	.3643040	21.00902	31.12670	.2663391	.7342593	5.762145
#1	-2.27757	.9506043	.0050371	.0025046	1.268417	1.857019	.0212141
#2	-2.05339	.9511067	.0044629	.0020999	1.272243	1.848664	.0228673
#3	-2.04550	.9568522	.0066440	.0037649	1.275173	1.830516	.0237865

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4977-03DLX2 Acquired: 12/13/2024 15:40:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2514654	.5138564	.0045741
Stddev	.0035847	.0017985	.0039704
%RSD	1.425527	.3500090	86.79998
#1	.2517880	.5156778	.0001987
#2	.2477303	.5138096	.0079473
#3	.2548779	.5120816	.0055765

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2329.921	25831.73	2359.689	1881.107	2846.952
Stddev	1.710	63.13	6.862	9.429	2.455
%RSD	.0734032	.2443990	.2908004	.5012668	.0862455
#1	2330.512	25764.73	2351.940	1870.279	2844.903
#2	2331.257	25890.11	2364.998	1885.535	2846.280
#3	2327.993	25840.34	2362.128	1887.507	2849.674

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4977-04DLX2 Acquired: 12/13/2024 15:44:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F8D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0100784	.0271316	.0281371	-.039230	-.007708	7.146416	.0353950
Stddev	.0021418	.0015679	.0030116	.001565	.001299	.023190	.0001695
%RSD	21.25102	5.778878	10.70347	3.988983	16.84979	.3244997	.4787460
#1	.0097109	.0253251	.0249632	-.037638	-.006835	7.144915	.0352170
#2	.0081441	.0281380	.0284933	-.039285	-.009201	7.124013	.0355543
#3	.0123801	.0279318	.0309548	-.040766	-.007089	7.170320	.0354138

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008588	.0005455	634.2412	.0200611	.0462938	.0238234	21.10013
Stddev	.0000760	.0000956	1.7518	.0006469	.0007048	.0027215	.05581
%RSD	8.844116	17.51522	.2762054	3.224606	1.522470	11.42350	.2644922
#1	.0009273	.0004423	636.1637	.0206871	.0464922	.0209463	21.13470
#2	.0007771	.0005633	632.7351	.0201011	.0468782	.0263565	21.03575
#3	.0008721	.0006309	633.8249	.0193952	.0455111	.0241674	21.12995

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.211892	95.59771	.0353313	-.001214	1.801681	.0266739	.0665558
Stddev	.000963	.17597	.0008418	.000404	.242495	.0056512	.0044857
%RSD	.0794211	.1840742	2.382626	33.30531	13.45936	21.18621	6.739753
#1	1.211368	95.77474	.0350569	-.001104	1.900966	.0214175	.0659643
#2	1.211305	95.42282	.0362761	-.000876	1.525299	.0259535	.0713079
#3	1.213003	95.59557	.0346610	-.001662	1.978777	.0326508	.0623952

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-2.20911	.9269981	.0039476	.0021611	1.239466	1.740728	.0229743
Stddev	.09168	.0022410	.0022790	.0009365	.001892	.002426	.0010438
%RSD	4.150072	.2417463	57.73048	43.33452	.1526567	.1393719	4.543115
#1	-2.24526	.9293825	.0055176	.0014828	1.237322	1.743525	.0227341
#2	-2.10487	.9249353	.0013337	.0032296	1.240904	1.739467	.0241172
#3	-2.27721	.9266765	.0049916	.0017708	1.240171	1.739192	.0220716

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4977-04DLX2 Acquired: 12/13/2024 15:44:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F8D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2455888	.5045623	-.001784
Stddev	.0063766	.0014530	.002877
%RSD	2.596470	.2879654	161.2862
#1	.2500518	.5055462	-.000144
#2	.2484291	.5028934	-.000102
#3	.2382855	.5052472	-.005105

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2333.278	26023.88	2364.415	1902.362	2853.504
Stddev	3.807	39.20	8.489	8.669	2.444
%RSD	.1631761	.1506155	.3590353	.4556793	.0856512
#1	2337.303	26038.97	2357.433	1899.606	2856.277
#2	2332.799	25979.38	2373.864	1895.406	2851.663
#3	2329.733	26053.29	2361.947	1912.073	2852.573

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4977-03LDLX10 Acquired: 12/13/2024 15:48:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F8L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004683	.0155151	.0101151	-.027601	-.006046	1.486082	.0091730
Stddev	.0021502	.0029157	.0017384	.001916	.002625	.018798	.0004717
%RSD	459.1712	18.79292	17.18587	6.941116	43.42014	1.264918	5.141842
#1	.0029467	.0174941	.0095037	-.025394	-.005237	1.495489	.0089037
#2	-.000643	.0121667	.0087651	-.028580	-.008980	1.464437	.0097177
#3	-.000899	.0168844	.0120766	-.028831	-.003920	1.498319	.0088977

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002956	.0001258	126.9824	.0043341	.0276636	.0130651	4.339230
Stddev	.0000527	.0000135	.7302	.0008046	.0001935	.0028096	.050570
%RSD	17.81487	10.76044	.5750628	18.56355	.6996041	21.50490	1.165407
#1	.0002643	.0001191	127.8175	.0051595	.0275888	.0145455	4.382587
#2	.0002661	.0001169	126.4638	.0042909	.0278834	.0098248	4.283678
#3	.0003564	.0001414	126.6660	.0035521	.0275187	.0148249	4.351424

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2493968	20.08644	.0053018	-.000423	2.387513	.0115162	.0109142
Stddev	.0025919	.25049	.0005276	.000647	.428369	.0052521	.0036628
%RSD	1.039275	1.247071	9.950281	153.0428	17.94205	45.60591	33.55976
#1	.2501516	20.35781	.0051154	-.001133	2.020173	.0102641	.0145667
#2	.2515276	20.03746	.0048928	.000134	2.858055	.0070034	.0109345
#3	.2465113	19.86406	.0058973	-.000270	2.284310	.0172812	.0072413

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.02794	.1721474	-.009476	.0006784	.2372606	.4109437	.0041422
Stddev	.06051	.0011633	.001288	.0005240	.0076960	.0129538	.0013297
%RSD	5.886065	.6757446	13.59259	77.23397	3.243670	3.152202	32.10205
#1	-1.09776	.1734224	-.008785	.0010169	.2284217	.4247184	.0028663
#2	-.99530	.1718762	-.010962	.0000749	.2408846	.3990072	.0040405
#3	-.99078	.1711438	-.008681	.0009434	.2424756	.4091054	.0055199

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4977-03LDLX10 Acquired: 12/13/2024 15:48:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F8L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0494335	.1022255	-.025443
Stddev	.0037492	.0004197	.002504
%RSD	7.584247	.4105904	9.843076
#1	.0487308	.1027100	-.028333
#2	.0460855	.1019927	-.023930
#3	.0534843	.1019737	-.024065

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2366.362	26180.59	2315.367	1914.176	3099.952
Stddev	13.038	84.84	10.618	7.347	12.110
%RSD	.5509516	.3240389	.4585948	.3838396	.3906448
#1	2379.831	26145.40	2303.803	1917.232	3113.648
#2	2353.804	26119.02	2317.620	1905.794	3090.661
#3	2365.450	26277.36	2324.678	1919.502	3095.547

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4977-05DLX2 Acquired: 12/13/2024 15:52:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F8S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0502515	.0737929	.0443836	.0409598	.0768947	9.914608	1.955332
Stddev	.0037380	.0024166	.0002691	.0023592	.0024341	.074869	.007555
%RSD	7.438559	3.274877	.6062087	5.759844	3.165561	.7551370	.3863573
#1	.0518098	.0758521	.0440884	.0424133	.0784513	9.977073	1.960425
#2	.0459865	.0711324	.0446151	.0382377	.0781432	9.935132	1.958918
#3	.0529582	.0743944	.0444473	.0422284	.0740897	9.831617	1.946652

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0483693	.0472119	633.4194	.2198952	.5104889	.2520380	22.31041
Stddev	.0004960	.0001130	3.4279	.0011176	.0017857	.0090213	.10645
%RSD	1.025489	.2393703	.5411662	.5082383	.3497916	3.579362	.4771399
#1	.0488725	.0472207	635.5844	.2201221	.5084460	.2422263	22.27956
#2	.0483547	.0470948	635.2065	.2186816	.5112682	.2539136	22.42888
#3	.0478808	.0473203	629.4673	.2208819	.5117523	.2599741	22.22279

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.699580	97.25008	.5088636	.0367306	2.017057	.5268035	.4876943
Stddev	.008148	.50557	.0015388	.0007809	.268041	.0024268	.0020597
%RSD	.4794385	.5198650	.3023897	2.126141	13.28872	.4606728	.4223432
#1	1.706638	97.37395	.5100400	.0362911	1.983298	.5240060	.4883989
#2	1.701439	97.68219	.5071222	.0362684	2.300378	.5283428	.4893093
#3	1.690662	96.69408	.5094286	.0376322	1.767495	.5280619	.4853747

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.66751	.9365930	.0069859	.0024867	1.258972	2.872096	.0228106
Stddev	.13391	.0036875	.0017702	.0003333	.007792	.029118	.0018665
%RSD	8.030793	.3937196	25.33887	13.40242	.6189303	1.013837	8.182505
#1	-1.55238	.9339529	.0089246	.0022568	1.250046	2.905650	.0215264
#2	-1.81447	.9350199	.0065775	.0023343	1.264418	2.853443	.0249516
#3	-1.63567	.9408062	.0054557	.0028689	1.262451	2.857196	.0219538

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4977-05DLX2 Acquired: 12/13/2024 15:52:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F8S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2912509	.5075092	.0060085
Stddev	.0010147	.0021138	.0033634
%RSD	.3483954	.4164985	55.97782
#1	.2901869	.5081946	.0092887
#2	.2922078	.5091952	.0061693
#3	.2913581	.5051378	.0025676

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2303.843	25720.61	2320.215	1864.278	2819.203
Stddev	6.183	96.47	17.704	8.404	6.131
%RSD	.2683953	.3750716	.7630276	.4507935	.2174825
#1	2300.571	25720.97	2307.306	1865.813	2820.635
#2	2299.983	25623.96	2312.942	1855.212	2812.482
#3	2310.975	25816.90	2340.397	1871.808	2824.492

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4977-06DLX2 Acquired: 12/13/2024 15:56:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0128784	.0263256	.0288225	-.037561	-.005709	6.563623	.0286784
Stddev	.0028649	.0019019	.0016731	.005159	.000476	.013213	.0009009
%RSD	22.24620	7.224669	5.804763	13.73606	8.332996	.2013060	3.141507
#1	.0154280	.0284737	.0271197	-.043466	-.006128	6.560917	.0283926
#2	.0134291	.0256474	.0304642	-.035286	-.005192	6.577979	.0279551
#3	.0097780	.0248557	.0288837	-.033929	-.005808	6.551972	.0296876

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008415	.0006078	549.3433	.0173689	.0466571	.0181139	28.98569
Stddev	.0000807	.0000362	1.4061	.0003249	.0005721	.0032123	.12707
%RSD	9.594640	5.963599	.2559653	1.870456	1.226184	17.73379	.4383816
#1	.0009048	.0006493	547.8513	.0174151	.0471038	.0144280	28.84305
#2	.0007506	.0005913	550.6439	.0170235	.0468551	.0195972	29.08680
#3	.0008690	.0005827	549.5348	.0176683	.0460122	.0203164	29.02721

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.494114	176.5579	.0313214	-.002179	2.252485	.0285666	.0725941
Stddev	.007260	.1831	.0001690	.000796	.364898	.0058441	.0044652
%RSD	.2910986	.1037265	.5394780	36.50730	16.19979	20.45793	6.150903
#1	2.490209	176.3551	.0315079	-.001906	2.673517	.0352891	.0776348
#2	2.502491	176.7112	.0312779	-.001556	2.056105	.0246952	.0710126
#3	2.489641	176.6074	.0311784	-.003076	2.027834	.0257155	.0691349

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-2.40638	.7886532	.0032192	.0012361	.6070450	1.275733	.0070206
Stddev	.04331	.0023232	.0025169	.0003163	.0070923	.004740	.0013545
%RSD	1.799989	.2945847	78.18523	25.58592	1.168337	.3715807	19.29275
#1	-2.36494	.7870712	.0052319	.0012928	.6051816	1.270543	.0083561
#2	-2.45135	.7875681	.0040285	.0008953	.6010703	1.279835	.0070577
#3	-2.40285	.7913205	.0003971	.0015201	.6148829	1.276821	.0056479

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4977-06DLX2 Acquired: 12/13/2024 15:56:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3029743	.3563058	-.002504
Stddev	.0012506	.0009308	.004822
%RSD	.4127600	.2612499	192.5355
#1	.3034055	.3554101	.002239
#2	.3039522	.3562391	-.007401
#3	.3015652	.3572683	-.002352

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2315.240	25752.87	2335.091	1869.030	2806.672
Stddev	3.289	49.13	5.768	6.336	1.293
%RSD	.1420773	.1907584	.2470328	.3389927	.0460853
#1	2318.983	25705.53	2335.788	1875.923	2807.937
#2	2313.928	25749.48	2340.480	1863.460	2806.729
#3	2312.808	25803.60	2329.006	1867.707	2805.352

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4977-07DLX2 Acquired: 12/13/2024 15:59:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29G0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0195667	.0296402	.0366510	-.039611	-.005601	6.822297	.0403344
Stddev	.0007153	.0042546	.0021274	.002367	.000680	.052311	.0012725
%RSD	3.655543	14.35433	5.804400	5.974688	12.14602	.7667664	3.154950
#1	.0203694	.0257052	.0390163	-.042261	-.006379	6.877560	.0409478
#2	.0189969	.0341550	.0360425	-.037709	-.005309	6.815784	.0411840
#3	.0193339	.0290604	.0348942	-.038862	-.005116	6.773548	.0388713

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009707	.0007272	678.0196	.0205012	.0500682	.0423292	31.47986
Stddev	.0000344	.0000645	2.0565	.0004569	.0001630	.0050482	.11014
%RSD	3.540710	8.867049	.3033075	2.228448	.3255883	11.92599	.3498843
#1	.0009537	.0007799	680.2906	.0210226	.0500675	.0480578	31.60704
#2	.0010103	.0007463	677.4850	.0201712	.0499055	.0385314	31.41551
#3	.0009482	.0006553	676.2832	.0203097	.0502315	.0403983	31.41703

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.612908	182.1707	.0415633	-.003329	2.206129	.0261262	.0869838
Stddev	.008912	.9986	.0003965	.001229	.558665	.0043190	.0017439
%RSD	.5525360	.5481595	.9540193	36.91858	25.32333	16.53142	2.004878
#1	1.616426	183.1590	.0419474	-.002895	2.101092	.0239186	.0849837
#2	1.619524	182.1908	.0415871	-.004717	1.707437	.0233571	.0881860
#3	1.602774	181.1622	.0411554	-.002377	2.809857	.0311028	.0877818

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-2.20223	.8474659	.0141938	.0027097	.6848332	1.539760	.0078098
Stddev	.19189	.0009103	.0021824	.0003389	.0032260	.022964	.0012923
%RSD	8.713522	.1074116	15.37597	12.50555	.4710579	1.491433	16.54681
#1	-2.08751	.8485139	.0139946	.0030864	.6821834	1.565812	.0063177
#2	-2.42376	.8468725	.0121177	.0026128	.6838909	1.522454	.0085464
#3	-2.09542	.8470112	.0164690	.0024298	.6884255	1.531013	.0085654

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4977-07DLX2 Acquired: 12/13/2024 15:59:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29G0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1948086	.4859716	.0026396
Stddev	.0039517	.0021871	.0026194
%RSD	2.028508	.4500426	99.23119
#1	.1949888	.4874178	.0016738
#2	.1907698	.4870415	.0056048
#3	.1986671	.4834555	.0006404

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2301.143	25539.22	2328.531	1856.961	2778.425
Stddev	4.761	41.94	30.211	.285	7.349
%RSD	.2068995	.1642126	1.297437	.0153251	.2645005
#1	2297.394	25527.40	2293.717	1857.047	2769.991
#2	2299.535	25504.45	2347.857	1856.643	2781.830
#3	2306.500	25585.79	2344.020	1857.193	2783.454

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4977-08DLX2 Acquired: 12/13/2024 16:03:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29G1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0102042	.0243149	.0251109	-.031810	-.004011	5.847284	.0337586
Stddev	.0018983	.0011117	.0006501	.003363	.001330	.019822	.0005717
%RSD	18.60280	4.572004	2.588714	10.57372	33.16275	.3390034	1.693570
#1	.0116637	.0233842	.0254458	-.035391	-.005154	5.825358	.0332585
#2	.0108907	.0240145	.0243617	-.028718	-.004329	5.852558	.0336354
#3	.0080582	.0255459	.0255252	-.031319	-.002551	5.863936	.0343819

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007193	.0003972	396.7686	.0178920	.0416023	.0184390	18.45005
Stddev	.0000388	.0000174	.7091	.0003569	.0007898	.0061192	.01485
%RSD	5.388222	4.383576	.1787298	1.994698	1.898478	33.18624	.0804755
#1	.0007443	.0004101	396.2809	.0177999	.0411644	.0128335	18.46597
#2	.0006746	.0003774	396.4429	.0182859	.0411284	.0175164	18.44760
#3	.0007389	.0004042	397.5821	.0175901	.0425141	.0249672	18.43658

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8271732	89.52885	.0290054	-.001841	1.813380	.0310770	.0534784
Stddev	.0033274	.38343	.0005147	.000893	.866378	.0056909	.0065793
%RSD	.4022587	.4282807	1.774372	48.50353	47.77695	18.31223	12.30276
#1	.8233342	89.49118	.0287013	-.001125	2.789096	.0267068	.0491107
#2	.8292268	89.16564	.0287152	-.002842	1.134227	.0375121	.0610455
#3	.8289586	89.92973	.0295996	-.001556	1.516816	.0290122	.0502789

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-2.65037	.7484847	-.001722	.0009535	.8882792	1.211996	.0056670
Stddev	.07565	.0021854	.001073	.0003593	.0037630	.005798	.0008801
%RSD	2.854344	.2919805	62.32312	37.68663	.4236277	.4784111	15.52991
#1	-2.73773	.7497355	-.000530	.0005599	.8924523	1.205666	.0048328
#2	-2.60635	.7459612	-.002611	.0010363	.8872410	1.213273	.0065867
#3	-2.60705	.7497573	-.002026	.0012641	.8851443	1.217050	.0055815

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4977-08DLX2 Acquired: 12/13/2024 16:03:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29G1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3038520	.3174913	-.013178
Stddev	.0019035	.0022122	.000333
%RSD	.6264655	.6967874	2.528068
#1	.3016681	.3155503	-.012837
#2	.3047282	.3170234	-.013194
#3	.3051596	.3199000	-.013503

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2367.161	26337.03	2377.880	1922.594	2937.793
Stddev	2.316	93.39	16.852	12.563	1.620
%RSD	.0978435	.3546013	.7087036	.6534494	.0551437
#1	2369.481	26229.53	2384.069	1910.254	2936.669
#2	2367.153	26398.17	2390.762	1935.369	2937.059
#3	2364.849	26383.40	2358.808	1922.159	2939.650

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4977-09DLX2 Acquired: 12/13/2024 16:07:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29G2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0163829	.0303984	.0255141	-.039182	-.009409	6.610674	.0350764
Stddev	.0029937	.0034201	.0021616	.001368	.002223	.028324	.0007215
%RSD	18.27350	11.25095	8.472194	3.492699	23.63165	.4284555	2.056952
#1	.0194559	.0271174	.0243964	-.037855	-.011627	6.588688	.0353354
#2	.0162174	.0301353	.0280057	-.040589	-.009420	6.642636	.0342611
#3	.0134753	.0339424	.0241402	-.039101	-.007180	6.600698	.0356327

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007633	.0005091	698.1530	.0212927	.0478522	.0178869	20.30073
Stddev	.0000244	.0000844	2.5947	.0001565	.0004774	.0028975	.11725
%RSD	3.194484	16.57785	.3716531	.7349041	.9976423	16.19870	.5775863
#1	.0007726	.0005910	695.9754	.0212084	.0478865	.0189956	20.27169
#2	.0007357	.0004224	701.0239	.0211964	.0473586	.0145989	20.42978
#3	.0007817	.0005140	697.4596	.0214732	.0483115	.0200663	20.20073

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8832467	157.7989	.0324696	-.001482	1.712244	.0383538	.0617432
Stddev	.0014231	.4614	.0008796	.001414	.627619	.0082688	.0035752
%RSD	.1611178	.2923732	2.708991	95.38688	36.65476	21.55915	5.790491
#1	.8830712	157.5114	.0331769	-.002575	1.041050	.0293735	.0632016
#2	.8847494	158.3310	.0314847	-.001986	2.284547	.0400356	.0643587
#3	.8819196	157.5541	.0327472	.000115	1.811137	.0456524	.0576693

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-2.65901	.6580300	.0032782	.0011690	.9713061	1.323930	.0075702
Stddev	.22070	.0053378	.0013697	.0005139	.0080390	.014609	.0010078
%RSD	8.300109	.8111778	41.78039	43.96343	.8276448	1.103434	13.31274
#1	-2.80804	.6539949	.0022350	.0011481	.9785606	1.308075	.0067710
#2	-2.76353	.6560127	.0027704	.0006659	.9626635	1.336846	.0072372
#3	-2.40547	.6640825	.0048292	.0016931	.9726944	1.326867	.0087023

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4977-09DLX2 Acquired: 12/13/2024 16:07:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29G2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2971897	.3885240	.0028362
Stddev	.0035830	.0020340	.0034921
%RSD	1.205632	.5235072	123.1263
#1	.2976480	.3868481	.0064812
#2	.3005216	.3907869	-.000480
#3	.2933996	.3879370	.002507

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2284.307	25431.14	2316.630	1847.019	2781.211
Stddev	5.188	174.55	13.952	20.264	5.566
%RSD	.2271257	.6863625	.6022745	1.097110	.2001207
#1	2289.740	25241.24	2327.478	1826.304	2787.035
#2	2279.404	25467.60	2300.891	1847.952	2780.652
#3	2283.780	25584.58	2321.522	1866.800	2775.946

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4981-10 Acquired: 12/13/2024 16:11:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJA7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0885396	.0268221	.4616946	-.025506	.0232852	76.38994
Stddev	.0032100	.0017543	.0052183	.002226	.0027143	.12395
%RSD	3.625471	6.540599	1.130243	8.725485	11.65699	.1622643
#1	.0914107	.0248002	.4677164	-.027971	.0253743	76.53010
#2	.0850739	.0279409	.4585006	-.024900	.0202171	76.29472
#3	.0891342	.0277252	.4588668	-.023646	.0242640	76.34501

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9573116	.0064955	.0111794	F 1129.647	.1153431	.1142169
Stddev	.0011884	.0000291	.0000372	1.813	.0013134	.0009319
%RSD	.1241408	.4486175	.3324500	.1605246	1.138721	.8159024
#1	.9573403	.0064719	.0111708	1128.639	.1168529	.1151146
#2	.9584854	.0064866	.0111472	1131.741	.1144636	.1132542
#3	.9561090	.0065281	.0112201	1128.563	.1147129	.1142819

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1729033	175.3167	7.953573	503.5395	.2067502	-.018036
Stddev	.0022028	.2477	.011467	.6317	.0017406	.001014
%RSD	1.274019	.1412951	.1441693	.1254456	.8419055	5.622504
#1	.1736887	175.4399	7.965277	504.2674	.2086683	-.019207
#2	.1704155	175.4786	7.942360	503.2162	.2063115	-.017438
#3	.1746059	175.0315	7.953081	503.1350	.2052709	-.017463

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.382048	.1578592	2.088430	8.462312	4.491223	.0272663
Stddev	.262659	.0044141	.012952	.205419	.026308	.0009907
%RSD	11.02660	2.796232	.6202009	2.427451	.5857725	3.633564
#1	2.365562	.1629559	2.100804	8.473901	4.519639	.0278682
#2	2.128021	.1552633	2.089517	8.661691	4.467714	.0261228
#3	2.652561	.1553585	2.074968	8.251345	4.486315	.0278079

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4981-10 Acquired: 12/13/2024 16:11:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJA7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030644	10.29722	9.292894	.0306189	.8940405	.6455075
Stddev	.0004996	.05231	.039511	.0009898	.0014290	.0008817
%RSD	16.30450	.5080368	.4251763	3.232622	.1598312	.1365953
#1	.0031012	10.35701	9.332759	.0314295	.8935010	.6464712
#2	.0025474	10.25987	9.253746	.0309113	.8956607	.6453100
#3	.0035447	10.27477	9.292177	.0295158	.8929599	.6447412

Elem	Li6707
Units	ppm
Avg	.1452507
Stddev	.0023379
%RSD	1.609566
#1	.1464108
#2	.1467817
#3	.1425597

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2371.137	26758.09	2500.661	1918.651	2513.999
Stddev	11.459	71.48	5.910	4.322	15.432
%RSD	.4832530	.2671155	.2363572	.2252688	.6138256
#1	2358.174	26681.76	2496.458	1915.612	2496.195
#2	2375.323	26769.08	2507.420	1916.741	2522.255
#3	2379.913	26823.44	2498.106	1923.599	2523.546

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4981-11 Acquired: 12/13/2024 16:15:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJA8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0949936	.0148471	.3170916	-.011891	.0529816	139.3440	1.774817
Stddev	.0011525	.0034226	.0041984	.006186	.0031943	1.0686	.014556
%RSD	1.213283	23.05230	1.324024	52.02082	6.029111	.7668989	.8201462
#1	.0941955	.0181972	.3171666	-.011730	.0525931	138.8391	1.767939
#2	.0963149	.0113563	.3128562	-.005787	.0499992	138.6213	1.764976
#3	.0944704	.0149877	.3212520	-.018156	.0563523	140.5715	1.791538

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0120912	.0097146	573.0356	.2041137	.1700174	.2946670	298.5031
Stddev	.0000940	.0001652	3.8492	.0004028	.0008269	.0123008	2.5565
%RSD	.7770975	1.700078	.6717130	.1973526	.4863479	4.174461	.8564306
#1	.0120352	.0098980	571.7521	.2037532	.1697497	.2890842	296.8740
#2	.0120387	.0096683	569.9922	.2045485	.1693575	.2861477	297.1858
#3	.0121997	.0095775	577.3626	.2040392	.1709449	.3087692	301.4496

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.432935	169.6004	.3775125	-.030593	2.882347	.2789920	1.440107
Stddev	.045152	1.6623	.0043743	.000589	.593775	.0100109	.011311
%RSD	.8310770	.9801295	1.158724	1.926011	20.60039	3.588237	.7854541
#1	5.404170	168.7622	.3759139	-.031032	3.350849	.2755460	1.437965
#2	5.409660	168.5241	.3741623	-.029924	2.214566	.2711593	1.430019
#3	5.484975	171.5150	.3824613	-.030825	3.081625	.2902708	1.452336

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.863924	5.457119	-.017654	.0070911	2.777214	9.867589	.0369221
Stddev	.087696	.052060	.002368	.0001087	.030306	.074551	.0008711
%RSD	1.115164	.9539749	13.41586	1.532421	1.091234	.7555140	2.359401
#1	7.808331	5.432218	-.015339	.0071260	2.758675	9.790992	.0361711
#2	7.818422	5.422186	-.020073	.0071780	2.760780	9.871863	.0367182
#3	7.965018	5.516952	-.017549	.0069692	2.812187	9.939911	.0378771

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4981-11 Acquired: 12/13/2024 16:15:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJA8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.222937	1.012641	.2211000
Stddev	.008937	.008150	.0013262
%RSD	.7307517	.8048389	.5997996
#1	1.225388	1.007239	.2209307
#2	1.213031	1.008669	.2198667
#3	1.230393	1.022016	.2225028

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2545.853	28570.87	2589.058	2062.175	2695.766
Stddev	12.255	60.39	12.996	7.974	17.952
%RSD	.4813743	.2113548	.5019735	.3866848	.6659464
#1	2552.635	28519.46	2600.840	2054.289	2706.700
#2	2553.217	28637.36	2591.216	2070.235	2705.550
#3	2531.706	28555.77	2575.117	2062.001	2675.047

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4981-12 Acquired: 12/13/2024 16:19:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJA9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0678815	.0308587	.3682630	-.030434	.0202253	69.49700
Stddev	.0018342	.0026897	.0016728	.005349	.0010089	.08666
%RSD	2.702018	8.716258	.4542420	17.57671	4.988153	.1246944
#1	.0682718	.0303372	.3683007	-.033730	.0213902	69.56712
#2	.0658837	.0337710	.3699166	-.033311	.0196297	69.40012
#3	.0694892	.0284680	.3665717	-.024262	.0196561	69.52375

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9276108	.0061586	.0184973	F 1391.470	.1076471	.1201951
Stddev	.0010015	.0001587	.0001543	9.702	.0008002	.0005154
%RSD	.1079629	2.577175	.8339054	.6972448	.7433652	.4288334
#1	.9287004	.0062401	.0183679	1391.461	.1072896	.1200695
#2	.9274017	.0059757	.0186680	1381.773	.1070881	.1197540
#3	.9267305	.0062600	.0184560	1401.177	.1085638	.1207617

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1529273	179.6780	7.879112	624.5595	.2030605	-.016885
Stddev	.0083290	.5863	.030061	2.2791	.0007203	.000497
%RSD	5.446351	.3263299	.3815326	.3649168	.3546998	2.942776
#1	.1457153	180.3073	7.913551	626.5429	.2033900	-.017445
#2	.1510230	179.5798	7.858131	622.0698	.2022345	-.016500
#3	.1620435	179.1470	7.865654	625.0657	.2035571	-.016709

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.843327	.1465579	3.261979	6.157144	3.479446	.0351524
Stddev	.738437	.0063738	.012733	.095918	.019358	.0015446
%RSD	25.97089	4.348990	.3903553	1.557839	.5563627	4.394099
#1	3.524068	.1448442	3.266416	6.103075	3.466559	.0340784
#2	2.058284	.1536133	3.247621	6.100465	3.470073	.0369226
#3	2.947628	.1412161	3.271900	6.267890	3.501707	.0344563

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4981-12 Acquired: 12/13/2024 16:19:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJA9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029505	23.68952	10.55006	.0309172	.7261900	.8395712
Stddev	.0004226	.13572	.03239	.0007425	.0082856	.0025597
%RSD	14.32390	.5728975	.3070080	2.401540	1.140972	.3048825
#1	.0024760	23.66156	10.55311	.0317689	.7357497	.8421907
#2	.0030890	23.56996	10.51625	.0304064	.7217425	.8370758
#3	.0032865	23.83704	10.58081	.0305762	.7210777	.8394471

Elem	Li6707
Units	ppm
Avg	.1372174
Stddev	.0010770
%RSD	.7848622
#1	.1359802
#2	.1379449
#3	.1377271

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2355.119	26514.70	2492.678	1897.558	2463.184
Stddev	8.662	114.17	7.229	9.079	9.471
%RSD	.3677846	.4306010	.2900176	.4784386	.3845155
#1	2350.119	26484.23	2484.709	1891.444	2458.862
#2	2365.121	26641.01	2498.816	1907.989	2474.046
#3	2350.118	26418.85	2494.509	1893.239	2456.645

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4981-13 Acquired: 12/13/2024 16:23:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJC4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1668089	.0271721	3.987815	.0051181	.0283525	63.70548	1.073975
Stddev	.0027825	.0009233	.004578	.0026936	.0016145	.03966	.001153
%RSD	1.668045	3.397887	.1148112	52.62921	5.694326	.0622488	.1073685
#1	.1653167	.0265301	3.993100	.0070348	.0271087	63.73939	1.072666
#2	.1700192	.0282302	3.985287	.0062812	.0277717	63.71517	1.074421
#3	.1650909	.0267560	3.985059	.0020384	.0301770	63.66187	1.074839

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0062281	.0097932	136.9870	.1349965	.1167932	.3492815	160.2654
Stddev	.0000989	.0000386	.3032	.0010458	.0006580	.0010746	.1443
%RSD	1.587385	.3945774	.2213432	.7747112	.5634117	.3076698	.0900243
#1	.0061223	.0098338	137.0266	.1338561	.1174217	.3504752	160.1661
#2	.0063181	.0097569	136.6659	.1359108	.1161091	.3489785	160.4309
#3	.0062438	.0097890	137.2684	.1352225	.1168487	.3483909	160.1993

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.35744	34.33418	.2617010	-.012347	2.474719	.1755063	2.015612
Stddev	.03481	.16693	.0009716	.000363	.250360	.0058684	.012816
%RSD	.2606310	.4861979	.3712749	2.937134	10.11672	3.343699	.6358171
#1	13.34762	34.37823	.2628165	-.012649	2.681377	.1786791	2.013810
#2	13.39611	34.47468	.2612471	-.012447	2.546461	.1791054	2.003792
#3	13.32859	34.14965	.2610394	-.011944	2.196320	.1687346	2.029233

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.398740	8.808665	.0072680	.0068427	3.978253	9.761060	.1054973
Stddev	.042832	.016727	.0027077	.0002483	.004295	.080397	.0008726
%RSD	1.785602	.1898963	37.25465	3.629120	.1079741	.8236493	.8270888
#1	2.426809	8.825571	.0053744	.0068287	3.978495	9.719782	.1055235
#2	2.419972	8.792122	.0060603	.0070977	3.973842	9.853711	.1046120
#3	2.349440	8.808302	.0103694	.0066017	3.982422	9.709687	.1063565

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4981-13 Acquired: 12/13/2024 16:23:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJC4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.297445	.0187748	.0483039
Stddev	.006354	.0005712	.0039172
%RSD	.4897395	3.042325	8.109510
#1	1.296933	.0185662	.0528138
#2	1.304040	.0194210	.0463490
#3	1.291363	.0183373	.0457490

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2811.550	31372.58	2806.306	2298.759	3031.061
Stddev	7.497	135.76	21.221	11.779	9.426
%RSD	.2666445	.4327345	.7562004	.5123965	.3109952
#1	2813.548	31230.77	2797.498	2285.173	3031.310
#2	2817.846	31501.35	2790.906	2304.999	3040.361
#3	2803.257	31385.63	2830.512	2306.104	3021.513

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4981-14 Acquired: 12/13/2024 16:27:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJC5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2028838	.0299539	4.582953	-.001657	.0354451	72.89626
Stddev	.0003607	.0012037	.011642	.003128	.0002583	.30378
%RSD	.1777630	4.018555	.2540380	188.7444	.7286744	.4167306
#1	.2029090	.0306782	4.571390	.001191	.0351857	73.02310
#2	.2032312	.0285644	4.594673	-.005005	.0357022	72.54962
#3	.2025112	.0306192	4.582796	-.001158	.0354474	73.11607

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.219930	.0074174	.0119371	227.1709	.1456312	.1347131
Stddev	.003965	.0001705	.0001691	.8069	.0016629	.0011746
%RSD	.3250505	2.299131	1.417021	.3551965	1.141870	.8719520
#1	1.223001	.0076065	.0117422	227.2976	.1471575	.1334516
#2	1.215453	.0072751	.0120246	226.3081	.1438590	.1357753
#3	1.221336	.0073707	.0120447	227.9069	.1458771	.1349124

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3875291	198.4240	15.37106	41.38895	.3004898	-.015530
Stddev	.0049539	.6186	.04598	.17660	.0006937	.000750
%RSD	1.278328	.3117653	.2991566	.4266724	.2308630	4.832622
#1	.3914941	198.5499	15.40130	41.54174	.3001189	-.016175
#2	.3819759	197.7521	15.31814	41.19560	.3000604	-.015708
#3	.3891173	198.9699	15.39373	41.42950	.3012902	-.014706

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.724625	.2073651	2.259737	3.280604	F 10.01762	.0053818
Stddev	.117893	.0085706	.026090	.057311	.02293	.0008118
%RSD	4.326961	4.133075	1.154560	1.746974	.2289010	15.08386
#1	2.815529	.2044609	2.283488	3.248045	9.99308	.0046513
#2	2.591417	.2006241	2.231811	3.346779	10.03850	.0052385
#3	2.766930	.2170104	2.263912	3.246988	10.02129	.0062557

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4981-14 Acquired: 12/13/2024 16:27:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJC5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0072622	4.370548	8.809354	.1186022	1.400652	.0608863
Stddev	.0001139	.003529	.082815	.0008843	.003455	.0005831
%RSD	1.568019	.0807512	.9400797	.7456208	.2466883	.9576795
#1	.0073717	4.368675	8.903980	.1180046	1.403916	.0615015
#2	.0072704	4.368350	8.750091	.1196181	1.397033	.0608155
#3	.0071444	4.374619	8.773992	.1181839	1.401008	.0603418

Elem	Li6707
Units	ppm
Avg	.0728189
Stddev	.0007350
%RSD	1.009407
#1	.0721359
#2	.0735968
#3	.0727239

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2849.260	31781.54	2853.395	2326.331	2953.398
Stddev	14.498	294.89	19.631	21.569	15.842
%RSD	.5088334	.9278627	.6879788	.9271786	.5363938
#1	2865.984	31558.24	2831.006	2305.189	2971.175
#2	2840.245	32115.82	2867.659	2348.303	2940.773
#3	2841.551	31670.56	2861.521	2325.499	2948.246

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4981-15 Acquired: 12/13/2024 16:31:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJC6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7434267	.0260065	2.164674	.0116435	.0610695	74.76611	1.316677
Stddev	.0025420	.0027701	.020133	.0027564	.0021138	1.24816	.018675
%RSD	.3419340	10.65167	.9300789	23.67326	3.461301	1.669426	1.418327
#1	.7440972	.0230612	2.148639	.0146966	.0586434	74.63800	1.316837
#2	.7406166	.0263985	2.158113	.0108960	.0625145	76.07340	1.335271
#3	.7455663	.0285597	2.187269	.0093380	.0620506	73.58695	1.297922

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0088804	.0117366	148.4850	.1342790	.1582901	1.782074	318.6053
Stddev	.0001974	.0003492	2.2865	.0035025	.0015507	.032523	5.0926
%RSD	2.223249	2.975527	1.539907	2.608371	.9796438	1.825036	1.598398
#1	.0087883	.0116197	148.7065	.1302702	.1570443	1.782614	318.3962
#2	.0091071	.0114609	150.6528	.1358201	.1577993	1.814324	323.7992
#3	.0087459	.0121293	146.0958	.1367467	.1600268	1.749284	313.6205

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.99661	31.57825	.2454793	.8466737	2.135234	.2166474	1.040015
Stddev	.28547	.58737	.0029232	.0185299	.199529	.0040775	.017921
%RSD	1.586224	1.860031	1.190795	2.188549	9.344616	1.882079	1.723141
#1	18.00645	31.55058	.2429968	.8257167	1.977075	.2139437	1.022155
#2	18.27703	32.17895	.2447400	.8534160	2.359404	.2213374	1.057996
#3	17.70635	31.00520	.2487012	.8608884	2.069223	.2146612	1.039893

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.115054	7.174442	-.017810	.0207970	7.063363	8.492528	.0769786
Stddev	.215755	.087488	.003891	.0003219	.075335	.117418	.0009250
%RSD	4.218044	1.219434	21.84598	1.547763	1.066564	1.382607	1.201637
#1	5.092796	7.122173	-.013776	.0204488	7.007728	8.440863	.0759106
#2	5.341075	7.125711	-.018116	.0210837	7.033268	8.626920	.0774994
#3	4.911290	7.275444	-.021539	.0208585	7.149094	8.409802	.0775258

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4981-15 Acquired: 12/13/2024 16:31:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJC6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.086226	-.137213	.0703013
Stddev	.013202	.002168	.0025084
%RSD	1.215368	1.579778	3.568058
#1	1.087541	-.136651	.0674160
#2	1.098721	-.139606	.0719638
#3	1.072416	-.135381	.0715240

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2943.681	33553.75	2952.854	2437.042	2926.045
Stddev	18.455	650.85	32.215	48.882	31.558
%RSD	.6269516	1.939718	1.090978	2.005803	1.078512
#1	2955.039	34299.57	2952.198	2493.485	2945.272
#2	2953.617	33260.90	2920.972	2409.130	2943.239
#3	2922.386	33100.76	2985.392	2408.512	2889.624

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4981-16 Acquired: 12/13/2024 16:34:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJC7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1186859	.0358978	1.042120	-.024260	.0216015	65.61576
Stddev	.0034294	.0043652	.006092	.005652	.0020370	.41461
%RSD	2.889491	12.16011	.5846060	23.29682	9.429731	.6318746
#1	.1191551	.0347508	1.037845	-.028967	.0200780	65.14606
#2	.1150461	.0322206	1.039420	-.025823	.0239151	65.93085
#3	.1218566	.0407220	1.049096	-.017992	.0208112	65.77036

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8077113	.0064295	.0056825	F 1014.984	.1015322	.1452961
Stddev	.0040540	.0001363	.0001367	11.954	.0005292	.0014086
%RSD	.5019094	2.120297	2.406542	1.177708	.5212416	.9694521
#1	.8031797	.0063478	.0057138	1001.294	.1013733	.1442241
#2	.8109937	.0065869	.0055328	1020.301	.1011006	.1447729
#3	.8089605	.0063539	.0058009	1023.356	.1021226	.1468915

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3353916	175.1657	12.10921	40.47235	.1957628	-.016591
Stddev	.0041620	.9233	.05334	.18654	.0012952	.001073
%RSD	1.240922	.5271040	.4404721	.4609081	.6616225	6.467644
#1	.3358751	174.2229	12.04810	40.27415	.1942990	-.016189
#2	.3392906	176.0682	12.14642	40.64449	.1962292	-.017806
#3	.3310090	175.2061	12.13311	40.49842	.1967602	-.015776

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.373905	.1581974	.6136011	8.041244	6.573670	.0276120
Stddev	.474384	.0054238	.0077308	.075283	.039441	.0037785
%RSD	19.98326	3.428498	1.259903	.9362168	.5999842	13.68423
#1	2.889162	.1637490	.6050468	7.955345	6.542592	.0314543
#2	2.277281	.1579320	.6200881	8.095753	6.560379	.0239007
#3	1.955272	.1529112	.6156685	8.072634	6.618040	.0274810

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4981-16 Acquired: 12/13/2024 16:34:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJC7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015821	1.578691	8.482216	.0467174	.8198913	.5052471
Stddev	.0005142	.003004	.052395	.0004102	.0053370	.0023832
%RSD	32.49998	.1903112	.6176988	.8779698	.6509383	.4716838
#1	.0017457	1.579464	8.436274	.0462738	.8144995	.5025571
#2	.0010060	1.581234	8.539278	.0470830	.8200026	.5070947
#3	.0019945	1.575376	8.471096	.0467953	.8251717	.5060894

Elem	Li6707
Units	ppm
Avg	.1063137
Stddev	.0032517
%RSD	3.058584
#1	.1100313
#2	.1049112
#3	.1039986

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2614.015	29243.68	2683.900	2116.831	2642.280
Stddev	2.315	23.61	14.832	3.814	5.610
%RSD	.0885509	.0807346	.5526386	.1801766	.2123057
#1	2616.043	29251.72	2700.888	2118.049	2646.222
#2	2614.510	29217.10	2673.519	2119.888	2644.760
#3	2611.493	29262.21	2677.294	2112.557	2635.858

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4981-17 Acquired: 12/13/2024 16:38:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJC9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1173866	.0517056	1.091355	-.024788	.0206179	42.90831
Stddev	.0048546	.0048199	.005025	.004127	.0017630	.18715
%RSD	4.135549	9.321769	.4604110	16.65003	8.551028	.4361561
#1	.1205013	.0570939	1.096435	-.022470	.0222687	43.04756
#2	.1198654	.0502176	1.086388	-.022340	.0208242	42.98180
#3	.1117930	.0478051	1.091241	-.029553	.0187608	42.69557

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6630355	.0040757	.0047819	F 1276.064	.0778002	.1150321
Stddev	.0037763	.0001533	.0001253	8.902	.0002709	.0006291
%RSD	.5695482	3.762174	2.620320	.6975825	.3481859	.5469279
#1	.6665682	.0042486	.0046520	1266.094	.0775510	.1157584
#2	.6634830	.0039564	.0047916	1283.213	.0780886	.1146554
#3	.6590554	.0040221	.0049020	1278.886	.0777610	.1146824

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4431627	154.9894	17.60960	25.24991	.1433180	-.012812
Stddev	.0052322	.6584	.05589	.19974	.0006131	.001252
%RSD	1.180658	.4247892	.3174093	.7910489	.4278088	9.768672
#1	.4450501	155.5373	17.67093	25.39514	.1433450	-.012776
#2	.4471894	155.1720	17.59635	25.33247	.1439172	-.011579
#3	.4372487	154.2591	17.56153	25.02213	.1426919	-.014081

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.599626	.1211388	.5619785	3.408281	6.343069	.0033326
Stddev	.320751	.0067324	.0079428	.128399	.006196	.0032739
%RSD	12.33836	5.557593	1.413371	3.767271	.0976754	98.23607
#1	2.915610	.1158800	.5679556	3.462282	6.344378	.0068955
#2	2.608956	.1287264	.5650144	3.261701	6.348506	.0026457
#3	2.274311	.1188099	.5529654	3.500860	6.336324	.0004568

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4981-17 Acquired: 12/13/2024 16:38:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJC9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028820	1.210752	8.505267	.0359152	.7513005	.6658165
Stddev	.0000069	.003697	.070878	.0011234	.0072821	.0031408
%RSD	.2397979	.3053431	.8333412	3.127931	.9692678	.4717269
#1	.0028767	1.206759	8.568782	.0360025	.7554261	.6692914
#2	.0028898	1.214056	8.518208	.0347507	.7555831	.6649783
#3	.0028795	1.211440	8.428810	.0369924	.7428923	.6631798

Elem	Li6707
Units	ppm
Avg	.0698573
Stddev	.0042075
%RSD	6.023013
#1	.0731486
#2	.0713065
#3	.0651167

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2596.500	29002.88	2677.708	2108.366	2654.211
Stddev	6.214	35.55	14.629	6.137	2.952
%RSD	.2393049	.1225732	.5463305	.2910735	.1112107
#1	2594.130	28989.89	2662.050	2101.281	2653.978
#2	2591.821	29043.09	2680.046	2112.033	2651.383
#3	2603.550	28975.65	2691.027	2111.783	2657.273

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4981-21 Acquired: 12/13/2024 16:42:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJD0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1014884	.0321521	1.089302	-.026427	.0206199	56.25520
Stddev	.0026391	.0036451	.004389	.003463	.0036413	.12884
%RSD	2.600356	11.33709	.4029026	13.10303	17.65900	.2290277
#1	.1035696	.0363088	1.086173	-.028374	.0246669	56.32684
#2	.1023755	.0306465	1.087415	-.022429	.0195838	56.10646
#3	.0985201	.0295008	1.094319	-.028478	.0176089	56.33230

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6372931	.0048556	.0047844	F 1086.373	.0879211	.1250871
Stddev	.0015437	.0001231	.0000448	12.841	.0003982	.0006321
%RSD	.2422321	2.535479	.9363373	1.181972	.4528806	.5053616
#1	.6390014	.0049258	.0048087	1078.542	.0883803	.1256381
#2	.6359980	.0047134	.0048118	1079.385	.0876721	.1252261
#3	.6368800	.0049275	.0047327	1101.192	.0877109	.1243970

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3911097	151.1524	11.74155	31.66365	.1694854	-.013649
Stddev	.0092639	.2297	.02757	.07104	.0011013	.000216
%RSD	2.368625	.1519635	.2347664	.2243715	.6497884	1.579580
#1	.3869608	151.3645	11.75758	31.72991	.1701562	-.013898
#2	.4017229	150.9084	11.70972	31.58863	.1682144	-.013516
#3	.3846454	151.1843	11.75735	31.67239	.1700856	-.013533

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.169369	.1261486	.7607174	3.843447	7.848289	.0002160
Stddev	.578667	.0018264	.0020280	.199544	.009589	.0006766
%RSD	26.67441	1.447784	.2665961	5.191797	.1221822	313.3010
#1	2.791121	.1265658	.7621850	3.649719	7.837248	.0009280
#2	2.070444	.1277303	.7584032	3.832282	7.854542	-.000419
#3	1.646542	.1241498	.7615640	4.048338	7.853075	.000139

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4981-21 Acquired: 12/13/2024 16:42:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJD0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005526	1.412478	8.820281	.0387471	.9491434	.4892244
Stddev	.0003931	.009252	.053909	.0005675	.0023502	.0011499
%RSD	71.13544	.6550326	.6111982	1.464694	.2476120	.2350482
#1	.0010027	1.408607	8.834127	.0381370	.9465665	.4894475
#2	.0003778	1.405790	8.865917	.0388449	.9511688	.4879792
#3	.0002772	1.423037	8.760799	.0392594	.9496948	.4902464

Elem	Li6707
Units	ppm
Avg	.0842264
Stddev	.0069683
%RSD	8.273302
#1	.0888483
#2	.0762115
#3	.0876196

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2571.279	28742.53	2652.190	2090.157	2706.010
Stddev	1.224	150.37	2.860	10.527	.735
%RSD	.0476143	.5231714	.1078213	.5036294	.0271780
#1	2571.663	28648.87	2649.845	2081.012	2706.859
#2	2569.909	28915.98	2651.350	2101.664	2705.553
#3	2572.265	28662.74	2655.376	2087.797	2705.620

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: CCV009 Acquired: 12/13/2024 17:02:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV009 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.832007	4.841248	23.64655	4.509461	4.683642	376.8997	9.682058
Stddev	.018108	.032212	.10035	.017782	.027966	1.8433	.033959
%RSD	.3747598	.6653616	.4243561	.3943166	.5971010	.4890582	.3507372
#1	4.814102	4.809838	23.59355	4.489441	4.655727	376.1112	9.667780
#2	4.831606	4.839699	23.58381	4.515524	4.683542	379.0061	9.720824
#3	4.850312	4.874206	23.76228	4.523419	4.711659	375.5819	9.657570

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4808017	2.366246	387.1792	14.56216	2.350240	14.59267	386.3524
Stddev	.0005072	.008684	2.1386	.02232	.008134	.00977	.9197
%RSD	.1054950	.3669958	.5523570	.1532397	.3460989	.0669641	.2380381
#1	.4807037	2.361216	385.8997	14.53690	2.346030	14.58472	385.8922
#2	.4813507	2.361249	389.6481	14.57035	2.345074	14.60358	387.4113
#3	.4803505	2.376274	385.9898	14.57922	2.359616	14.58972	385.7536

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.44298	376.8928	2.390707	1.206703	377.0150	2.436928	13.70697
Stddev	.02273	1.1325	.009501	.002737	2.2271	.018842	.01485
%RSD	.1573981	.3004733	.3974156	.2268564	.5907168	.7731697	.1083277
#1	14.42349	376.2683	2.385914	1.204481	376.4671	2.452263	13.72396
#2	14.46795	378.2000	2.384558	1.209761	379.4649	2.442626	13.69649
#3	14.43749	376.2101	2.401650	1.205869	375.1130	2.415895	13.70045

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	143.3968	4.718178	4.634120	4.586733	4.707523	4.733634	4.782256
Stddev	.4631	.023444	.017272	.016905	.029575	.007696	.020635
%RSD	.3229310	.4968915	.3727213	.3685635	.6282586	.1625852	.4314871
#1	143.2233	4.710081	4.616553	4.569159	4.683623	4.725034	4.766443
#2	143.9216	4.699856	4.651082	4.588165	4.698346	4.739873	4.774728
#3	143.0455	4.744598	4.634724	4.602878	4.740599	4.735996	4.805598

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: CCV009 Acquired: 12/13/2024 17:02:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV009 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	4.871255	4.570714	4.900104
Stddev	.004700	.010519	.016200
%RSD	.0964868	.2301394	.3305952
#1	4.871086	4.564287	4.910238
#2	4.876037	4.582853	4.881421
#3	4.866641	4.565001	4.908654

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1966.041	24040.16	2226.227	1641.556	2571.868
Stddev	3.244	113.51	8.851	8.182	6.765
%RSD	.1649780	.4721584	.3975869	.4984124	.2630379
#1	1969.049	23909.32	2216.320	1632.199	2571.756
#2	1966.468	24112.16	2229.003	1645.102	2578.688
#3	1962.604	24099.02	2233.357	1647.366	2565.160

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: CCB009 Acquired: 12/13/2024 17:05:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB009 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039612	.0012782	.0032165	-.001954	.0029694	-.016198
Stddev	.0030390	.0007619	.0016756	.002986	.0019756	.003947
%RSD	76.71936	59.60694	52.09261	152.7808	66.53094	24.36943
#1	.0071832	.0019004	.0051510	.000906	.0052226	-.012234
#2	.0011461	.0004285	.0022809	-.001717	.0021516	-.016233
#3	.0035544	.0015055	.0022177	-.005052	.0015340	-.020129

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026786	.0001228	.0000715	.0306852	-.000878	.0002707
Stddev	.0004085	.0001041	.0000941	.0249583	.000356	.0002278
%RSD	15.25090	84.80605	131.6103	81.33683	40.52462	84.13877
#1	.0025575	.0000026	.0001756	.0265145	-.000864	.0004271
#2	.0031340	.0001843	-.000007	.0574661	-.000529	.0003758
#3	.0023443	.0001814	.000046	.0080749	-.001240	.0000094

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000987	.0014988	.0006398	.0142825	-.000116	.0010360
Stddev	.008574	.0320760	.0002455	.0951731	.000080	.0008694
%RSD	868.9109	2140.155	38.37887	666.3626	69.44075	83.92043
#1	-.000399	-.007507	.0008472	.0673118	-.000208	.0016020
#2	.007278	.037115	.0007035	-.095592	-.000079	.0014711
#3	-.009839	-.025112	.0003687	.071128	-.000060	.0000349

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.738052	-.001241	.0016904	-.088599	-.001534	.0027001
Stddev	.225441	.008983	.0004840	.101470	.000955	.0002381
%RSD	12.97090	723.9117	28.63000	114.5273	62.23670	8.818961
#1	1.941398	-.008657	.0013286	.027422	-.000865	.0029689
#2	1.777134	.008748	.0015024	-.160771	-.002627	.0025156
#3	1.495626	-.003813	.0022401	-.132447	-.001109	.0026158

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: CCB009 Acquired: 12/13/2024 17:05:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB009 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001177	-.003999	-.038175	.0000872	-.000857	-.000013
Stddev	.0002763	.003873	.000561	.0003702	.002759	.000186
%RSD	234.7664	96.85603	1.470094	424.7811	321.9270	1409.313
#1	.0004126	-.008469	-.037540	-.000340	.001601	.000042
#2	-.000135	-.001865	-.038604	.000279	-.000330	.000139
#3	.000075	-.001662	-.038380	.000322	-.003842	-.000220

Elem	Li6707
Units	ppm
Avg	F -.023690
Stddev	.000346
%RSD	1.460557
#1	-.023578
#2	-.023414
#3	-.024078

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2416.170	26541.62	2353.732	1964.187	3271.424
Stddev	4.256	34.19	4.589	1.116	9.934
%RSD	.1761550	.1288346	.1949871	.0568032	.3036473
#1	2411.302	26580.77	2348.588	1963.075	3260.392
#2	2418.017	26517.61	2357.407	1965.307	3279.660
#3	2419.190	26526.48	2355.201	1964.179	3274.219

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4981-22 Acquired: 12/13/2024 17:09:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJE8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0626964	.0298477	1.704691	-.020259	.0237945	70.59400	.9369422
Stddev	.0056124	.0039864	.007800	.002029	.0033460	.08004	.0011776
%RSD	8.951625	13.35589	.4575371	10.01430	14.06218	.1133750	.1256888
#1	.0685853	.0324659	1.701244	-.020986	.0276391	70.68431	.9374550
#2	.0574090	.0318174	1.699208	-.021825	.0215402	70.56586	.9377766
#3	.0620949	.0252598	1.713620	-.017967	.0222042	70.53184	.9355951

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052240	.0072104	676.2243	.0968775	.1124356	.3212414	158.2455
Stddev	.0001865	.0001165	1.3515	.0005234	.0008603	.0040374	.2761
%RSD	3.570815	1.615789	.1998538	.5402470	.7651349	1.256799	.1744796
#1	.0054383	.0071394	677.2123	.0962792	.1118038	.3171678	158.3198
#2	.0050978	.0071468	676.7764	.0972504	.1120876	.3213148	157.9398
#3	.0051360	.0073448	674.6842	.0971029	.1134154	.3252415	158.4768

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.539306	261.4737	.1802159	-.012416	2.411430	.1554155	1.364864
Stddev	.023190	.3428	.0007766	.001278	.357343	.0075565	.006183
%RSD	.2715652	.1310929	.4309141	10.29556	14.81871	4.862136	.4530198
#1	8.564888	261.8654	.1796577	-.013837	2.089347	.1617401	1.357998
#2	8.519663	261.2289	.1798872	-.012053	2.795834	.1470474	1.366601
#3	8.533367	261.3267	.1811028	-.011359	2.349109	.1574589	1.369992

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.141521	9.671671	.0128860	.0012209	4.803761	8.861985	.0833749
Stddev	.041921	.030949	.0025352	.0002126	.012387	.049591	.0010623
%RSD	.5870063	.3199990	19.67390	17.41589	.2578625	.5595906	1.274146
#1	7.189819	9.647585	.0108401	.0012338	4.799376	8.901580	.0838930
#2	7.120171	9.660850	.0157222	.0014269	4.794162	8.806363	.0840788
#3	7.114573	9.706578	.0120958	.0010022	4.817744	8.878013	.0821530

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4981-22 Acquired: 12/13/2024 17:09:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJE8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.353943	.4001173	.1316781
Stddev	.008857	.0007362	.0037190
%RSD	.6541507	.1839849	2.824322
#1	1.348986	.4009673	.1358351
#2	1.348674	.3996842	.1286668
#3	1.364168	.3997005	.1305323

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2536.468	28438.15	2642.159	2060.273	2654.991
Stddev	9.517	117.26	9.730	5.688	11.407
%RSD	.3752094	.4123509	.3682512	.2761013	.4296353
#1	2540.626	28572.98	2637.526	2066.549	2662.808
#2	2543.198	28381.60	2653.340	2058.815	2660.263
#3	2525.579	28359.88	2635.612	2055.456	2641.902

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4983-01 Acquired: 12/13/2024 17:13:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ97 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0474795	.0410663	.2642133	-.027043	.0056721	31.88042
Stddev	.0038202	.0032277	.0044206	.003899	.0013002	.08644
%RSD	8.045988	7.859629	1.673124	14.41794	22.92220	.2711358
#1	.0432645	.0441185	.2683246	-.031345	.0068358	31.97985
#2	.0507137	.0413925	.2647777	-.026044	.0059117	31.82315
#3	.0484604	.0376880	.2595375	-.023741	.0042688	31.83826

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3021289	.0027968	.0037143	F 1026.554	.0538413	.0967367
Stddev	.0004739	.0000321	.0000882	2.378	.0004808	.0001561
%RSD	.1568645	1.148519	2.373307	.2316569	.8928955	.1613939
#1	.3020762	.0028276	.0037752	1028.915	.0537440	.0968001
#2	.3016835	.0027993	.0036133	1026.588	.0543633	.0968512
#3	.3026269	.0027635	.0037546	1024.159	.0534166	.0965589

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1623015	100.1988	12.68257	289.0779	.1034838	-.007456
Stddev	.0036142	.3941	.02062	.0883	.0001526	.001295
%RSD	2.226859	.3932800	.1625773	.0305323	.1474337	17.37027
#1	.1581383	100.3398	12.67020	289.0102	.1036572	-.008903
#2	.1641316	100.5029	12.70637	289.1777	.1033702	-.007063
#3	.1646346	99.7536	12.67112	289.0457	.1034239	-.006403

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.017322	.0694112	.3702991	3.404737	5.360169	.0211397
Stddev	.329563	.0084917	.0048330	.124191	.006136	.0008734
%RSD	8.203542	12.23396	1.305156	3.647605	.1144726	4.131732
#1	4.394467	.0730769	.3743723	3.284114	5.353089	.0218944
#2	3.872712	.0597023	.3715663	3.532214	5.363933	.0213416
#3	3.784786	.0754544	.3649588	3.397884	5.363486	.0201829

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4983-01 Acquired: 12/13/2024 17:13:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ97 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000079	6.939224	9.087051	.0220172	.4526755	.5885582
Stddev	.000221	.010418	.034307	.0007060	.0027306	.0012466
%RSD	281.4243	.1501309	.3775337	3.206478	.6032176	.2118040
#1	-.000318	6.950581	9.051384	.0215449	.4517827	.5894621
#2	-.000037	6.930111	9.119812	.0216780	.4557407	.5871361
#3	.000119	6.936979	9.089959	.0228288	.4505030	.5890764

Elem	Li6707
Units	ppm
Avg	.0600533
Stddev	.0023571
%RSD	3.925055
#1	.0590160
#2	.0583927
#3	.0627512

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2430.549	27573.92	2536.862	1988.498	2554.025
Stddev	4.587	140.36	8.504	10.339	2.725
%RSD	.1887419	.5090387	.3352100	.5199220	.1066952
#1	2430.611	27562.68	2542.422	1988.259	2554.365
#2	2425.932	27719.56	2541.091	1998.954	2551.146
#3	2435.106	27439.51	2527.072	1978.280	2556.564

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4983-02 Acquired: 12/13/2024 17:17:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJC3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1382591	.0517480	.9301430	-.009655	.0284585	58.36595
Stddev	.0022758	.0007628	.0017506	.002160	.0030569	.15438
%RSD	1.646029	1.474000	.1882085	22.37461	10.74148	.2644964
#1	.1396206	.0510921	.9281948	-.007340	.0309231	58.29945
#2	.1395249	.0515668	.9306502	-.011618	.0294146	58.25596
#3	.1356318	.0525850	.9315841	-.010006	.0250379	58.54243

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.314914	.0062801	.0084996	760.5095	.0924107	.1370405
Stddev	.002433	.0000564	.0000887	1.9861	.0006717	.0010109
%RSD	.1850361	.8973368	1.043035	.2611602	.7268629	.7376589
#1	1.314526	.0062319	.0083994	760.6146	.0919665	.1377042
#2	1.312699	.0063420	.0085678	758.4730	.0931834	.1358771
#3	1.317518	.0062663	.0085316	762.4411	.0920821	.1375402

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4266489	194.9651	21.97634	81.95704	.2073613	-.015402
Stddev	.0045382	.1981	.01217	.24496	.0008250	.000224
%RSD	1.063677	.1016136	.0553760	.2988877	.3978702	1.452574
#1	.4214798	195.1144	21.97776	82.09684	.2079298	-.015419
#2	.4284882	194.7404	21.96353	81.67420	.2077391	-.015171
#3	.4299787	195.0407	21.98774	82.10010	.2064151	-.015617

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.643422	.1544349	.6778001	6.414794	F 12.82796	.0054345
Stddev	.245213	.0049628	.0018740	.093209	.03784	.0031932
%RSD	9.276331	3.213525	.2764883	1.453029	.2949533	58.75768
#1	2.903710	.1577462	.6788988	6.515213	12.87165	.0087779
#2	2.416754	.1568297	.6788654	6.331046	12.80600	.0051094
#3	2.609803	.1487288	.6756363	6.398123	12.80622	.0024163

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4983-02 Acquired: 12/13/2024 17:17:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJC3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0062927	3.262157	8.601565	.2264125	1.003184	.4387189
Stddev	.0005169	.005271	.015464	.0007561	.001248	.0009770
%RSD	8.214391	.1615839	.1797776	.3339436	.1243885	.2226856
#1	.0068476	3.259672	8.587071	.2266425	1.001931	.4383390
#2	.0062056	3.268211	8.599781	.2270269	1.004427	.4379890
#3	.0058248	3.258588	8.617844	.2255681	1.003193	.4398288

Elem	Li6707
Units	ppm
Avg	.0781996
Stddev	.0018174
%RSD	2.324098
#1	.0775360
#2	.0768073
#3	.0802556

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2728.539	30498.92	2775.447	2209.720	2643.281
Stddev	3.578	146.96	7.500	10.238	6.324
%RSD	.1311291	.4818627	.2702380	.4633313	.2392606
#1	2727.252	30515.09	2778.921	2212.428	2637.041
#2	2725.783	30637.13	2780.581	2218.332	2643.115
#3	2732.583	30344.54	2766.840	2198.400	2649.687

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4983-03 Acquired: 12/13/2024 17:21:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJE5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0853496	.0444316	.3213224	-.012167	.0271957	74.71466	.7529320
Stddev	.0036354	.0013744	.0052944	.002718	.0009877	.16122	.0019910
%RSD	4.259389	3.093398	1.647683	22.34240	3.631844	.2157783	.2644389
#1	.0852124	.0428699	.3235072	-.011574	.0263140	74.82086	.7552212
#2	.0817848	.0454574	.3251746	-.015133	.0282631	74.52915	.7519710
#3	.0890517	.0449674	.3152852	-.009794	.0270101	74.79397	.7516037

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057507	.0050235	562.9271	.0852553	.1457667	.2273681	176.2941
Stddev	.0000541	.0001170	1.0997	.0029598	.0026510	.0051198	.3368
%RSD	.9408440	2.328096	.1953586	3.471636	1.818678	2.251775	.1910349
#1	.0056894	.0051243	563.8196	.0873326	.1466004	.2236479	176.2817
#2	.0057917	.0050509	561.6986	.0865670	.1479007	.2252492	176.6369
#3	.0057711	.0048953	563.2632	.0818664	.1427990	.2332073	175.9637

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.26943	74.39196	.1813879	-.012797	2.152452	.1419190	.2892302
Stddev	.03619	.14698	.0023574	.001720	.440634	.0033830	.0073038
%RSD	.1877980	.1975757	1.299648	13.44000	20.47123	2.383754	2.525253
#1	19.28052	74.49961	.1825021	-.012233	1.656407	.1456028	.2911823
#2	19.29877	74.45177	.1829818	-.014728	2.302433	.1412028	.2953596
#3	19.22899	74.22451	.1786800	-.011430	2.498517	.1389515	.2811487

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.690783	6.580317	-.018058	.0009112	1.289460	8.314698	.0250180
Stddev	.057190	.122279	.002525	.0005328	.024933	.043446	.0013906
%RSD	2.125403	1.858261	13.98337	58.47411	1.933578	.5225216	5.558515
#1	2.685940	6.618724	-.016804	.0014828	1.296134	8.347495	.0234170
#2	2.636168	6.678782	-.020965	.0004283	1.310376	8.331176	.0257107
#3	2.750240	6.443445	-.016405	.0008225	1.261869	8.265424	.0259261

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4983-03 Acquired: 12/13/2024 17:21:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJE5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.075375	.2917700	.0737401
Stddev	.001416	.0012559	.0038206
%RSD	.1316602	.4304443	5.181131
#1	1.076982	.2928721	.0713257
#2	1.074834	.2920353	.0781449
#3	1.074310	.2904027	.0717497

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2857.542	32449.55	2908.717	2353.722	2732.401
Stddev	34.348	771.72	10.239	54.933	45.215
%RSD	1.202017	2.378220	.3520103	2.333865	1.654787
#1	2853.681	31824.83	2899.341	2310.540	2723.213
#2	2825.288	32211.60	2919.642	2335.074	2692.486
#3	2893.658	33312.23	2907.167	2415.551	2781.505

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4983-04 Acquired: 12/13/2024 17:24:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJE6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0688488	.0576566	.3475251	-.022814	.0133340	30.24417
Stddev	.0038570	.0010258	.0018852	.005260	.0006912	.03634
%RSD	5.602088	1.779180	.5424644	23.05494	5.184053	.1201716
#1	.0649733	.0585789	.3468439	-.026708	.0137387	30.24017
#2	.0688860	.0565518	.3496562	-.024903	.0137274	30.28234
#3	.0726870	.0578393	.3460752	-.016831	.0125358	30.20999

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6329940	.0031124	.0051361	F 1543.572	.0466341	.0932529
Stddev	.0026812	.0000217	.0000514	3.694	.0005876	.0008663
%RSD	.4235783	.6971410	1.001747	.2393162	1.259930	.9289856
#1	.6358672	.0031322	.0051546	1541.206	.0468454	.0942267
#2	.6325564	.0031157	.0051757	1547.829	.0470869	.0929641
#3	.6305586	.0030892	.0050780	1541.682	.0459702	.0925678

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2790922	141.9605	21.43973	121.0162	.1093173	-.011246
Stddev	.0079257	.1047	.01804	.1061	.0011574	.000909
%RSD	2.839828	.0737460	.0841423	.0876834	1.058779	8.080419
#1	.2880360	142.0008	21.46049	121.1387	.1098354	-.010205
#2	.2729398	141.8416	21.42788	120.9551	.1101253	-.011884
#3	.2763009	142.0390	21.43081	120.9548	.1079914	-.011648

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.911882	.0830776	.3944861	1.922732	7.419913	-.003658
Stddev	.445588	.0041040	.0055316	.134986	.077613	.002026
%RSD	15.30241	4.939938	1.402238	7.020553	1.046009	55.38936
#1	2.620087	.0791334	.3882396	2.000474	7.443242	-.001709
#2	2.690779	.0827747	.3964538	1.766863	7.483185	-.005754
#3	3.424782	.0873246	.3987648	2.000858	7.333311	-.003513

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4983-04 Acquired: 12/13/2024 17:24:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJE6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0087806	3.380756	9.414950	.0344899	.4406646	.7150823
Stddev	.0002571	.039528	.062704	.0012471	.0027944	.0006215
%RSD	2.927998	1.169193	.6660027	3.615745	.6341236	.0869159
#1	.0088542	3.379295	9.467519	.0353168	.4380995	.7155793
#2	.0089929	3.420994	9.431784	.0350974	.4402521	.7143854
#3	.0084948	3.341979	9.345548	.0330555	.4436424	.7152821

Elem	Li6707
Units	ppm
Avg	.0595537
Stddev	.0017280
%RSD	2.901531
#1	.0582556
#2	.0588904
#3	.0615150

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2497.042	27847.56	2588.906	2025.302	2542.202
Stddev	23.189	52.51	13.661	8.158	28.675
%RSD	.9286605	.1885780	.5276658	.4027928	1.127942
#1	2485.945	27803.69	2578.833	2017.711	2528.204
#2	2481.487	27833.24	2583.430	2024.266	2523.214
#3	2523.695	27905.75	2604.455	2033.928	2575.187

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4983-05 Acquired: 12/13/2024 17:28:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJB6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3096676	.0637331	.4467487	-.003159	.0355414	58.55702
Stddev	.0021994	.0003663	.0030399	.003442	.0017835	.07822
%RSD	.7102510	.5747209	.6804459	108.9478	5.018186	.1335714
#1	.3120115	.0637587	.4500262	-.006413	.0335741	58.59478
#2	.3076489	.0640859	.4440216	-.003508	.0359975	58.46708
#3	.3093422	.0633546	.4461983	.000444	.0370525	58.60918

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9299893	.0071939	.0071610	F 918.7234	.0936226	.2233926
Stddev	.0014939	.0001745	.0000514	12.3566	.0007903	.0006362
%RSD	.1606331	2.425959	.7178264	1.344970	.8441130	.2847947
#1	.9306501	.0073915	.0071056	924.6719	.0930157	.2239525
#2	.9282790	.0070609	.0072071	904.5177	.0945162	.2227008
#3	.9310388	.0071293	.0071703	926.9806	.0933359	.2235246

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.050240	230.9429	29.01495	97.74089	.2579650	-.016963
Stddev	.005708	.5174	.10675	.23990	.0012985	.000386
%RSD	.5435139	.2240201	.3679271	.2454415	.5033475	2.278227
#1	1.047051	230.6029	28.94772	97.83695	.2594189	-.017167
#2	1.046838	230.6875	28.95910	97.46784	.2575550	-.017204
#3	1.056830	231.5383	29.13805	97.91786	.2569210	-.016517

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.308787	.1607352	.5531128	8.859006	F 18.23585	.0119255
Stddev	.133573	.0002944	.0039328	.039078	.06700	.0021101
%RSD	4.036931	.1831810	.7110240	.4411118	.3673820	17.69404
#1	3.447080	.1604761	.5511140	8.884934	18.27437	.0134652
#2	3.180496	.1606742	.5505808	8.814059	18.15849	.0095202
#3	3.298786	.1610554	.5576435	8.878025	18.27469	.0127910

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4983-05 Acquired: 12/13/2024 17:28:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJB6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007147	4.361242	10.06966	.0451932	.5732294	.6347217
Stddev	.0004071	.019153	.04727	.0003711	.0039820	.0021105
%RSD	56.96845	.4391699	.4694142	.8211102	.6946577	.3325075
#1	.0011847	4.377960	10.10536	.0448710	.5757518	.6338684
#2	.0004892	4.340344	10.08757	.0455989	.5686389	.6331714
#3	.0004701	4.365423	10.01606	.0451096	.5752975	.6371252

Elem	Li6707
Units	ppm
Avg	.0748801
Stddev	.0024485
%RSD	3.269881
#1	.0720634
#2	.0760766
#3	.0765002

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2731.786	30484.52	2829.240	2218.349	2638.915
Stddev	7.313	99.80	14.529	7.181	8.948
%RSD	.2676964	.3273890	.5135345	.3237220	.3390726
#1	2729.645	30439.42	2813.608	2217.685	2631.144
#2	2739.931	30598.92	2842.331	2225.840	2648.698
#3	2725.783	30415.23	2831.782	2211.523	2636.904

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4983-06 Acquired: 12/13/2024 17:32:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJE7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2103651	.0258578	.3995902	.0068310	.0335609	64.96557	.6951371
Stddev	.0036354	.0022256	.0021527	.0045047	.0018801	.15951	.0021677
%RSD	1.728144	8.606921	.5387333	65.94552	5.602070	.2455228	.3118362
#1	.2108660	.0246975	.4020595	.0026169	.0314888	65.02043	.6955955
#2	.2137241	.0284237	.3986032	.0115788	.0351579	65.09040	.6970389
#3	.2065052	.0244521	.3981080	.0062972	.0340361	64.78587	.6927768

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0068046	.0046649	106.8915	.0842705	.1492267	.6339461	200.4452
Stddev	.0001494	.0000796	.2101	.0004678	.0003944	.0033408	.2725
%RSD	2.196215	1.706491	.1965548	.5551407	.2643123	.5269790	.1359263
#1	.0066363	.0047526	106.7983	.0838540	.1487716	.6360236	200.1747
#2	.0068555	.0046447	107.1321	.0847767	.1494680	.6357223	200.7195
#3	.0069219	.0045973	106.7441	.0841807	.1494406	.6300925	200.4413

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.80456	45.34167	.1608480	-.014968	2.334324	.1609490	.3815323
Stddev	.00145	.19050	.0007082	.000447	.339640	.0019392	.0053457
%RSD	.0091882	.4201376	.4403033	2.987681	14.54984	1.204881	1.401103
#1	15.80595	45.44767	.1611134	-.014597	2.354712	.1625553	.3765634
#2	15.80468	45.45558	.1600455	-.014843	1.984949	.1614970	.3808452
#3	15.80306	45.12175	.1613853	-.015465	2.663311	.1587947	.3871882

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.007880	8.964412	-.032974	.0043144	1.370380	9.315659	.0315565
Stddev	.113745	.010740	.004086	.0003520	.003794	.013930	.0012289
%RSD	2.271326	.1198090	12.39235	8.159543	.2768272	.1495382	3.894192
#1	5.070965	8.962499	-.028568	.0040843	1.372238	9.299629	.0301390
#2	4.876571	8.954756	-.036639	.0041393	1.366016	9.322513	.0322099
#3	5.076103	8.975980	-.033715	.0047197	1.372888	9.324834	.0323207

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4983-06 Acquired: 12/13/2024 17:32:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJE7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.9367501	.0941600	.0320809
Stddev	.0055554	.0009228	.0025232
%RSD	.5930503	.9800463	7.865268
#1	.9422369	.0951205	.0298005
#2	.9368848	.0940793	.0347916
#3	.9311285	.0932802	.0316506

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2894.606	32355.53	2857.096	2371.818	2987.885
Stddev	1.870	108.82	10.486	11.479	1.348
%RSD	.0646019	.3363166	.3670041	.4839763	.0451251
#1	2896.044	32456.18	2866.831	2384.144	2989.343
#2	2892.492	32240.07	2845.993	2361.433	2987.629
#3	2895.282	32370.33	2858.463	2369.878	2986.683

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4983-07 Acquired: 12/13/2024 17:37:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJF9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0624293	.0283201	.4619532	-.032398	.0157229	60.86786
Stddev	.0030706	.0043166	.0079487	.001148	.0035818	.04082
%RSD	4.918554	15.24212	1.720673	3.542814	22.78079	.0670694
#1	.0658302	.0233719	.4578631	-.033708	.0125156	60.86600
#2	.0598605	.0313130	.4568825	-.031569	.0195881	60.82800
#3	.0615972	.0302754	.4711141	-.031917	.0150652	60.90958

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8404452	.0055311	.0074202	F 1424.961	.1037137	.1077946
Stddev	.0027519	.0002287	.0001253	16.754	.0009406	.0021712
%RSD	.3274283	4.135274	1.688269	1.175756	.9068995	2.014161
#1	.8425902	.0054620	.0073112	1421.411	.1045683	.1071660
#2	.8373425	.0057864	.0073922	1443.206	.1038671	.1060072
#3	.8414030	.0053449	.0075571	1410.267	.1027059	.1102108

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1580107	158.5201	8.829531	651.7531	.1908696	-.014638
Stddev	.0040045	.2390	.008583	.6200	.0036388	.000757
%RSD	2.534333	.1507938	.0972081	.0951229	1.906451	5.174092
#1	.1614028	158.7020	8.835731	651.5564	.1899677	-.015043
#2	.1535932	158.2494	8.833127	651.2552	.1877665	-.015107
#3	.1590360	158.6090	8.819735	652.4475	.1948745	-.013765

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.654413	.1319177	1.150346	6.649384	5.299212	.0285642
Stddev	.071253	.0007864	.005673	.080935	.099465	.0007450
%RSD	2.684311	.5961178	.4931145	1.217182	1.876977	2.608133
#1	2.717878	.1321156	1.154219	6.742605	5.241454	.0285658
#2	2.577336	.1310513	1.143835	6.608505	5.242118	.0278184
#3	2.668024	.1325863	1.152985	6.597042	5.414063	.0293084

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4983-07 Acquired: 12/13/2024 17:37:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJF9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030959	17.44984	11.27565	.0352871	.6821825	.8744734
Stddev	.0006007	.31961	.09454	.0011360	.0023797	.0004701
%RSD	19.40225	1.831574	.8384844	3.219400	.3488303	.0537615
#1	.0024059	17.24910	11.25691	.0354969	.6808998	.8745056
#2	.0033803	17.28201	11.37816	.0363036	.6849283	.8739880
#3	.0035016	17.81840	11.19187	.0340608	.6807193	.8749266

Elem	Li6707
Units	ppm
Avg	.1316859
Stddev	.0042179
%RSD	3.203027
#1	.1279180
#2	.1362425
#3	.1308970

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2249.788	25878.74	2403.701	1855.491	2397.997
Stddev	29.081	129.15	10.562	9.968	38.076
%RSD	1.292603	.4990741	.4394065	.5372317	1.587822
#1	2263.656	25788.48	2407.135	1847.867	2419.451
#2	2269.338	25821.05	2391.849	1851.835	2420.506
#3	2216.369	26026.68	2412.118	1866.771	2354.035

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4880-14A Acquired: 12/13/2024 17:40:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHH91A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1029969	.0214450	4.035667	.0334171	.0201397	55.36489
Stddev	.0017755	.0022604	.006528	.0012913	.0016084	.24664
%RSD	1.723876	10.54026	.1617517	3.864197	7.986161	.4454858
#1	.1043846	.0211959	4.034547	.0321287	.0190276	55.35290
#2	.1036102	.0193196	4.029772	.0334114	.0219839	55.12446
#3	.1009961	.0238196	4.042682	.0347113	.0194076	55.61731

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.268657	.0049560	.0082416	261.2672	.1413234	.0903762
Stddev	.008770	.0000723	.0000806	1.0916	.0010720	.0001464
%RSD	.3865613	1.459848	.9779546	.4178257	.7585629	.1619771
#1	2.272312	.0049519	.0082824	261.1337	.1405765	.0902080
#2	2.258651	.0048858	.0082936	260.2485	.1408420	.0904457
#3	2.275008	.0050303	.0081488	262.4195	.1425518	.0904749

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6194541	120.2991	5.677627	98.06267	.1715508	-.008015
Stddev	.0107528	.4215	.023199	.26832	.0001852	.000926
%RSD	1.735846	.3503654	.4085954	.2736216	.1079581	11.55172
#1	.6276095	120.2261	5.681945	98.16197	.1714662	-.008064
#2	.6072685	119.9188	5.652573	97.75885	.1714229	-.007065
#3	.6234845	120.7523	5.698363	98.26718	.1717632	-.008915

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.012793	.1578652	2.521365	3.217050	F 10.47477	.0169153
Stddev	.626301	.0127504	.021800	.137223	.02042	.0010950
%RSD	20.78806	8.076735	.8646004	4.265482	.1948979	6.473372
#1	3.194291	.1695444	2.542824	3.374996	10.47175	.0179682
#2	3.528301	.1597890	2.499240	3.127131	10.45604	.0157826
#3	2.315787	.1442623	2.522030	3.149023	10.49653	.0169950

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4880-14A Acquired: 12/13/2024 17:40:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHH91A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0051811	3.635375	9.718738	.1557843	.9177012	.2760410
Stddev	.0001762	.010346	.046762	.0019173	.0049197	.0005211
%RSD	3.400405	.2845898	.4811499	1.230730	.5360921	.1887803
#1	.0049905	3.626560	9.664839	.1537859	.9205623	.2756083
#2	.0052147	3.632799	9.742900	.1576085	.9120205	.2758951
#3	.0053380	3.646765	9.748476	.1559585	.9205209	.2766195

Elem	Li6707
Units	ppm
Avg	.0714966
Stddev	.0023883
%RSD	3.340472
#1	.0727698
#2	.0687414
#3	.0729785

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2550.397	28485.75	2535.436	2065.502	2853.744
Stddev	5.461	152.14	10.208	9.756	1.644
%RSD	.2141053	.5341029	.4026190	.4723237	.0576120
#1	2550.166	28412.23	2537.308	2056.072	2852.235
#2	2545.056	28660.69	2544.578	2075.554	2853.502
#3	2555.969	28384.34	2524.421	2064.881	2855.496

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P5042-01A Acquired: 12/13/2024 17:44:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB0A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1217906	.0246661	1.803092	.0454298	.0256708	55.17306	1.308790
Stddev	.0010342	.0011073	.004508	.0024794	.0018815	.10101	.000149
%RSD	.8491187	4.489136	.2500017	5.457589	7.329520	.1830696	.0113772
#1	.1206488	.0252625	1.798226	.0425774	.0238181	55.26492	1.308940
#2	.1226643	.0253475	1.807126	.0470690	.0275799	55.18936	1.308789
#3	.1220586	.0233885	1.803923	.0466429	.0256143	55.06490	1.308642

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0058287	.0074171	111.7739	.0938506	.1020455	.4254714	145.0262
Stddev	.0000602	.0000217	.2030	.0009201	.0002594	.0070170	.1205
%RSD	1.032679	.2923067	.1815957	.9804194	.2542153	1.649223	.0830592
#1	.0057642	.0074402	112.0039	.0947332	.1017861	.4332284	144.9807
#2	.0058834	.0074141	111.6201	.0928970	.1023049	.4236199	145.1628
#3	.0058385	.0073971	111.6975	.0939216	.1020455	.4195658	144.9351

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.48705	28.52270	.1475244	-.008965	1.875592	.1429437	1.267985
Stddev	.00837	.12108	.0005850	.000576	.142010	.0087991	.010877
%RSD	.0729068	.4244987	.3965595	6.423607	7.571501	6.155653	.8578523
#1	11.47789	28.52784	.1480386	-.008619	2.014990	.1444791	1.279509
#2	11.49431	28.39914	.1468879	-.009630	1.880679	.1334779	1.257897
#3	11.48894	28.64113	.1476468	-.008646	1.731106	.1508741	1.266549

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.110503	6.525670	-.001200	.0063633	1.909481	7.903867	.0925148
Stddev	.084158	.011813	.004859	.0002636	.003634	.067583	.0019368
%RSD	2.047391	.1810161	405.0198	4.143059	.1902954	.8550581	2.093551
#1	4.063813	6.512282	.003805	.0063286	1.907891	7.835480	.0940924
#2	4.060040	6.530104	-.001507	.0061186	1.906913	7.970616	.0930988
#3	4.207656	6.534624	-.005897	.0066425	1.913639	7.905505	.0903531

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P5042-01A Acquired: 12/13/2024 17:44:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB0A Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6804737	.8350444	.0398410
Stddev	.0032294	.0014591	.0012383
%RSD	.4745835	.1747279	3.108054
#1	.6806533	.8367070	.0384577
#2	.6836096	.8344488	.0402192
#3	.6771582	.8339773	.0408460

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2780.645	30853.81	2725.749	2263.514	3108.763
Stddev	6.441	162.27	9.896	15.826	8.046
%RSD	.2316317	.5259457	.3630469	.6991785	.2588070
#1	2787.215	30668.04	2733.357	2245.291	3113.742
#2	2774.342	30967.95	2714.562	2271.437	3099.480
#3	2780.378	30925.42	2729.328	2273.813	3113.065

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P5041-01A Acquired: 12/13/2024 17:48:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK78A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2564434	.0205741	9.100652	.0486026	.0187550	61.93128
Stddev	.0034666	.0014272	.015153	.0015209	.0005282	.06853
%RSD	1.351818	6.936841	.1665096	3.129316	2.816221	.1106536
#1	.2603903	.0221111	9.083960	.0502834	.0190366	61.85446
#2	.2538921	.0192907	9.113543	.0473212	.0181457	61.95326
#3	.2550478	.0203206	9.104452	.0482033	.0190828	61.98612

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.373906	.0065807	.0117319	162.5325	.1514980	.1031291
Stddev	.004381	.0000346	.0000666	.1523	.0006963	.0002923
%RSD	.1845686	.5251570	.5675393	.0936963	.4596164	.2833995
#1	2.369354	.0065468	.0117308	162.4247	.1517005	.1031591
#2	2.374270	.0065795	.0117990	162.4660	.1520706	.1034052
#3	2.378094	.0066159	.0116658	162.7067	.1507229	.1028229

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4172107	126.2487	9.136997	22.85099	.1810309	-.006233
Stddev	.0079384	.3754	.010472	.08015	.0003326	.000292
%RSD	1.902736	.2973366	.1146073	.3507702	.1837513	4.682921
#1	.4108073	125.8171	9.130069	22.81636	.1811360	-.006140
#2	.4260927	126.4993	9.149043	22.94263	.1812983	-.006561
#3	.4147321	126.4297	9.131878	22.79396	.1806584	-.006000

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.846038	.3257497	2.960134	2.848838	F 17.03937	.0196251
Stddev	.150868	.0095251	.017556	.198376	.02589	.0027865
%RSD	5.301000	2.924041	.5930865	6.963387	.1519556	14.19845
#1	2.681625	.3153514	2.950313	3.011109	17.01414	.0184675
#2	2.878370	.3340525	2.949686	2.907717	17.06588	.0176040
#3	2.978121	.3278453	2.980403	2.627689	17.03810	.0228037

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P5041-01A Acquired: 12/13/2024 17:48:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK78A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0208344	3.170107	7.553159	.2027583	.8334742	.5888331
Stddev	.0002310	.007623	.058501	.0004546	.0031345	.0004921
%RSD	1.108909	.2404743	.7745179	.2242221	.3760816	.0835697
#1	.0208801	3.162219	7.567016	.2022739	.8299167	.5893915
#2	.0210392	3.177435	7.603487	.2031757	.8358302	.5884628
#3	.0205840	3.170667	7.488974	.2028253	.8346759	.5886451

Elem	Li6707
Units	ppm
Avg	.1140212
Stddev	.0041982
%RSD	3.681985
#1	.1162269
#2	.1091799
#3	.1166569

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2787.672	30926.90	2756.164	2271.539	3193.582
Stddev	3.303	144.08	9.422	8.175	3.158
%RSD	.1184985	.4658766	.3418366	.3598833	.0988914
#1	2786.435	31023.97	2760.236	2277.839	3190.880
#2	2791.415	30995.39	2745.392	2274.476	3197.054
#3	2785.165	30761.36	2762.865	2262.301	3192.813

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P5040-01A Acquired: 12/13/2024 17:52:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKD6A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0433767	.0286726	.2605444	.0237479	.0132912	50.15156	.8616390
Stddev	.0016492	.0019214	.0027755	.0023374	.0005324	.08836	.0021881
%RSD	3.802102	6.701073	1.065260	9.842449	4.005726	.1761875	.2539486
#1	.0427727	.0308709	.2621988	.0211333	.0134465	50.16810	.8601568
#2	.0452427	.0278329	.2620943	.0256352	.0137287	50.05609	.8606080
#3	.0421146	.0273140	.2573402	.0244750	.0126984	50.23048	.8641521

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041353	.0038102	540.9203	.0810219	.0956075	.1458113	125.5485
Stddev	.0000754	.0000232	.9312	.0008645	.0006205	.0067211	.0897
%RSD	1.822297	.6095941	.1721534	1.067028	.6490428	4.609417	.0714718
#1	.0042153	.0037880	541.8385	.0809819	.0962801	.1465755	125.4807
#2	.0040656	.0038083	539.9766	.0819058	.0954851	.1521177	125.5145
#3	.0041249	.0038343	540.9460	.0801782	.0950572	.1387409	125.6502

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.547430	127.7011	.1507610	-.011534	2.394339	.1407997	.4243262
Stddev	.012877	.3520	.0009460	.000724	.388463	.0161381	.0060041
%RSD	.1706156	.2756562	.6275083	6.274648	16.22421	11.46173	1.414981
#1	7.548131	127.9182	.1516960	-.011616	2.786328	.1520504	.4290122
#2	7.534217	127.2950	.1507826	-.012213	2.387188	.1480393	.4175582
#3	7.559943	127.8902	.1498043	-.010772	2.009501	.1223095	.4264083

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7844230	8.089087	-.005901	.0027212	1.055691	6.154296	.0531884
Stddev	.1284205	.016740	.002114	.0005288	.004160	.016341	.0004101
%RSD	16.37133	.2069443	35.82633	19.43082	.3940963	.2655152	.7709705
#1	.6594437	8.105986	-.007989	.0022681	1.060371	6.169450	.0536220
#2	.7777972	8.072511	-.005951	.0025934	1.052412	6.136983	.0528068
#3	.9160282	8.088764	-.003762	.0033022	1.054291	6.156455	.0531365

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P5040-01A Acquired: 12/13/2024 17:52:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKD6A Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.9852240	.5157749	.0862689
Stddev	.0052853	.0022652	.0029159
%RSD	.5364601	.4391860	3.380055
#1	.9854475	.5139360	.0885955
#2	.9798304	.5150836	.0829978
#3	.9903940	.5183053	.0872135

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2600.503	28874.85	2642.432	2112.908	2886.651
Stddev	5.332	46.78	5.794	7.718	6.282
%RSD	.2050542	.1620183	.2192613	.3652951	.2176212
#1	2594.561	28831.53	2641.086	2119.818	2879.397
#2	2602.077	28868.56	2648.781	2104.578	2890.246
#3	2604.871	28924.46	2637.430	2114.328	2890.309

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4905-02A Acquired: 12/13/2024 17:56:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHA6A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3720331	.0225526	3.265793	.0493031	.1125509	70.29521
Stddev	.0060743	.0037193	.007651	.0023972	.0023009	.16485
%RSD	1.632723	16.49175	.2342716	4.862176	2.044305	.2345168
#1	.3744808	.0249139	3.271335	.0520496	.1105062	70.46807
#2	.3651169	.0244787	3.257064	.0482283	.1121041	70.13974
#3	.3765017	.0182653	3.268980	.0476313	.1150425	70.27782

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.101665	.0064339	.0108782	147.2969	.1519988	.1140095
Stddev	.015451	.0000571	.0000810	.3671	.0014494	.0005563
%RSD	.2532301	.8879176	.7447742	.2492390	.9535841	.4879346
#1	6.114374	.0064475	.0107923	147.7198	.1534475	.1145496
#2	6.084466	.0063712	.0109533	147.0601	.1520004	.1140408
#3	6.106155	.0064830	.0108891	147.1109	.1505486	.1134383

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.185332	182.8893	12.17538	36.18179	.2120554	.0039434
Stddev	.007235	.4788	.03601	.25457	.0004655	.0002434
%RSD	.6103742	.2617852	.2957566	.7035789	.2195326	6.173010
#1	1.181021	183.2919	12.18205	36.34414	.2123802	.0041626
#2	1.181290	182.3599	12.13651	35.88839	.2115221	.0039862
#3	1.193685	183.0162	12.20759	36.31283	.2122640	.0036814

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.776082	.1771131	5.389650	10.48600	F 21.61427	.0187959
Stddev	.334745	.0037893	.015620	.17845	.07562	.0028724
%RSD	12.05817	2.139504	.2898209	1.701752	.3498724	15.28204
#1	2.429449	.1814546	5.407523	10.33988	21.69855	.0194189
#2	3.097514	.1744703	5.382812	10.43325	21.59192	.0156631
#3	2.801283	.1754143	5.378615	10.68488	21.55234	.0213056

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4905-02A Acquired: 12/13/2024 17:56:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHA6A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0067519	4.577939	9.478952	.1828291	1.337784	.1914517
Stddev	.0005160	.015425	.032604	.0021455	.002467	.0008322
%RSD	7.642591	.3369476	.3439625	1.173478	.1844273	.4346659
#1	.0072189	4.594120	9.478748	.1840452	1.334949	.1923782
#2	.0061979	4.576297	9.446450	.1840903	1.338957	.1912092
#3	.0068389	4.563401	9.511657	.1803519	1.339445	.1907677

Elem	Li6707
Units	ppm
Avg	.0650976
Stddev	.0030346
%RSD	4.661597
#1	.0632347
#2	.0634588
#3	.0685992

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2845.302	31614.30	2839.222	2316.629	2994.445
Stddev	2.919	46.24	6.963	8.940	3.073
%RSD	.1025798	.1462777	.2452402	.3859051	.1026296
#1	2848.032	31560.91	2833.455	2309.893	2991.624
#2	2842.225	31640.13	2846.957	2313.222	2993.990
#3	2845.649	31641.85	2837.255	2326.771	2997.720

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4907-01A Acquired: 12/13/2024 17:59:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHE1A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1301036	.0224529	1.426422	.0361382	.0259700	88.77963
Stddev	.0005190	.0007222	.002845	.0031399	.0025924	.70626
%RSD	.3988822	3.216662	.1994798	8.688742	9.982250	.7955233
#1	.1301410	.0226978	1.428053	.0397606	.0252370	89.01045
#2	.1306029	.0230208	1.423136	.0344607	.0238231	87.98683
#3	.1295670	.0216400	1.428076	.0341932	.0288500	89.34160

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.870033	F 2.825185	.0102115	270.2270	.1516808	.1227911
Stddev	.014597	.017361	.0001279	2.2532	.0009516	.0003646
%RSD	.7805847	.6145234	1.252397	.8338359	.6273442	.2969098
#1	1.878492	2.835126	.0103514	270.9462	.1524263	.1232023
#2	1.853178	2.805138	.0101823	267.7019	.1520071	.1225075
#3	1.878430	2.835290	.0101007	272.0328	.1506090	.1226634

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.536327	166.5496	10.00794	78.00625	.2208566	-.010921
Stddev	.012552	1.3723	.08628	.61668	.0009667	.000372
%RSD	.8169848	.8239464	.8620886	.7905535	.4377180	3.402322
#1	1.550762	167.2143	10.07235	78.42724	.2215876	-.010697
#2	1.527979	164.9716	9.90992	77.29839	.2212218	-.011350
#3	1.530241	167.4630	10.04156	78.29311	.2197605	-.010716

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.280596	.2000136	4.138669	9.677424	F 16.44950	.0186930
Stddev	.393916	.0089647	.014896	.171531	.04483	.0021913
%RSD	17.27251	4.482067	.3599115	1.772484	.2725218	11.72278
#1	1.858597	.1922152	4.154104	9.819599	16.50061	.0211639
#2	2.344599	.2098082	4.137524	9.486911	16.43109	.0169856
#3	2.638591	.1980175	4.124378	9.725762	16.41681	.0179294

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4907-01A Acquired: 12/13/2024 17:59:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHE1A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0044675	4.234892	8.983939	.1019545	.9568737	.2452715
Stddev	.0003649	.023756	.034804	.0019205	.0082323	.0019389
%RSD	8.168105	.5609662	.3874016	1.883653	.8603330	.7905030
#1	.0048634	4.262304	9.013444	.1011478	.9655779	.2471915
#2	.0043945	4.222096	8.945556	.1005690	.9492127	.2433143
#3	.0041446	4.220277	8.992815	.1041468	.9558306	.2453086

Elem	Li6707
Units	ppm
Avg	.1149643
Stddev	.0045420
%RSD	3.950829
#1	.1145948
#2	.1106183
#3	.1196798

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2834.157	31720.10	2862.401	2305.202	2814.720
Stddev	3.987	26.05	21.816	3.770	3.793
%RSD	.1406800	.0821158	.7621598	.1635534	.1347725
#1	2836.059	31690.09	2851.953	2306.350	2813.212
#2	2829.575	31736.72	2887.476	2308.265	2811.913
#3	2836.837	31733.50	2847.773	2300.991	2819.036

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4932-02A Acquired: 12/13/2024 18:03:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ2A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1528657	.0264803	3.711174	-.002660	.0361723	63.05863
Stddev	.0025003	.0030416	.005537	.001926	.0007326	.26502
%RSD	1.635603	11.48611	.1492063	72.41850	2.025292	.4202703
#1	.1528479	.0288032	3.705480	-.002239	.0355840	62.98105
#2	.1503744	.0230376	3.711503	-.004762	.0359401	62.84106
#3	.1553748	.0276001	3.716540	-.000979	.0369929	63.35378

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.580918	.0062350	.0200610	178.6938	.1579569	.1159552
Stddev	.004844	.0001030	.0001438	.7360	.0008734	.0005954
%RSD	.3063774	1.651869	.7166547	.4118637	.5529544	.5134395
#1	1.580476	.0063137	.0199040	178.8190	.1577778	.1166073
#2	1.576311	.0061184	.0201863	177.9033	.1589060	.1158177
#3	1.585968	.0062728	.0200925	179.3592	.1571869	.1154406

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8178790	172.3765	12.01442	41.45245	.2046117	-.009851
Stddev	.0057238	.4889	.02596	.31713	.0009015	.000236
%RSD	.6998313	.2836295	.2160986	.7650478	.4405997	2.391348
#1	.8236684	172.4436	12.03614	41.46959	.2054579	-.009674
#2	.8122232	171.8575	11.98566	41.12710	.2047135	-.010118
#3	.8177454	172.8284	12.02145	41.76067	.2036636	-.009760

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.578629	.1695707	6.362461	6.538287	F 12.44803	.0114273
Stddev	.351495	.0064361	.006963	.114307	.02682	.0019879
%RSD	13.63107	3.795523	.1094447	1.748272	.2154908	17.39634
#1	2.579363	.1632404	6.362990	6.617027	12.42769	.0119304
#2	2.226767	.1761076	6.355248	6.407178	12.43798	.0092361
#3	2.929755	.1693643	6.369145	6.590657	12.47843	.0131153

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4932-02A Acquired: 12/13/2024 18:03:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ2A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0058498	2.239676	9.195384	.2448857	1.069457	.1700065
Stddev	.0002222	.007205	.043784	.0012949	.004567	.0008159
%RSD	3.799109	.3217154	.4761510	.5287688	.4270751	.4799395
#1	.0061016	2.234262	9.225862	.2438101	1.073103	.1695163
#2	.0056810	2.247854	9.215078	.2445240	1.064334	.1695547
#3	.0057668	2.236911	9.145211	.2463229	1.070933	.1709483

Elem	Li6707
Units	ppm
Avg	.0633284
Stddev	.0037816
%RSD	5.971468
#1	.0603238
#2	.0675748
#3	.0620866

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2700.770	29959.13	2677.969	2179.885	2924.029
Stddev	12.972	38.37	16.353	8.576	10.786
%RSD	.4802959	.1280794	.6106502	.3934118	.3688892
#1	2687.243	29914.84	2660.228	2170.316	2912.955
#2	2701.963	29982.40	2681.240	2182.460	2924.632
#3	2713.104	29980.15	2692.439	2186.878	2934.502

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4933-20A Acquired: 12/13/2024 18:07:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX4A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1788730	.0161254	7.159508	.0630692	.0318662	56.27057
Stddev	.0007378	.0000937	.015270	.0009695	.0034707	.18429
%RSD	.4124772	.5809679	.2132795	1.537203	10.89155	.3275051
#1	.1792010	.0160975	7.146244	.0638371	.0286926	56.44569
#2	.1793899	.0160489	7.156078	.0619798	.0313336	56.07831
#3	.1780280	.0162299	7.176200	.0633907	.0355724	56.28770

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.876161	.0056915	.0086416	33.18014	.1825904	.1005438
Stddev	.006341	.0000572	.0000695	.06876	.0008150	.0005289
%RSD	.3379864	1.005088	.8046279	.2072336	.4463332	.5260451
#1	1.882389	.0057068	.0085688	33.21089	.1828794	.0999582
#2	1.869713	.0057394	.0086486	33.10137	.1832214	.1006862
#3	1.876380	.0056282	.0087073	33.22816	.1816703	.1009868

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5291413	141.9343	12.43002	14.86252	.2010525	-.002596
Stddev	.0041450	.4711	.04660	.01930	.0006201	.000356
%RSD	.7833363	.3319256	.3749067	.1298632	.3084461	13.69700
#1	.5291827	142.0810	12.44856	14.84063	.2008640	-.002791
#2	.5249758	141.4073	12.37701	14.86982	.2017450	-.002186
#3	.5332654	142.3146	12.46450	14.87710	.2005485	-.002811

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.488923	.1504526	4.974233	5.161644	F 11.70034	-.007124
Stddev	.131509	.0073460	.014792	.135924	.02587	.001397
%RSD	5.283782	4.882573	.2973789	2.633345	.2210778	19.60590
#1	2.635580	.1532135	4.965925	5.078523	11.67048	-.008531
#2	2.449702	.1421262	4.965461	5.318502	11.71460	-.007102
#3	2.381486	.1560181	4.991311	5.087908	11.71594	-.005738

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4933-20A Acquired: 12/13/2024 18:07:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX4A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0112249	3.127835	9.851193	.3366772	1.182287	-.001265
Stddev	.0001830	.014065	.043793	.0002171	.005944	.000092
%RSD	1.630138	.4496760	.4445448	.0644902	.5027152	7.291008
#1	.0110897	3.111772	9.839734	.3364275	1.184544	-.001300
#2	.0114331	3.133791	9.814269	.3367823	1.175546	-.001335
#3	.0111518	3.137942	9.899576	.3368217	1.186773	-.001161

Elem	Li6707
Units	ppm
Avg	.0341400
Stddev	.0049461
%RSD	14.48764
#1	.0394164
#2	.0333946
#3	.0296089

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2730.553	30251.26	2637.097	2209.891	3108.113
Stddev	2.409	165.42	16.222	13.686	4.601
%RSD	.0882408	.5468173	.6151299	.6193149	.1480212
#1	2732.149	30131.91	2618.366	2202.729	3109.144
#2	2727.782	30181.79	2646.309	2201.273	3103.084
#3	2731.730	30440.09	2646.614	2225.672	3112.111

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4983-08 Acquired: 12/13/2024 18:11:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJG0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0634755	.0541542	.4997264	-.006163	.0363001	96.66659	2.527213
Stddev	.0016646	.0020444	.0065633	.003376	.0022576	.87162	.024318
%RSD	2.622492	3.775206	1.313377	54.78378	6.219336	.9016735	.9622603
#1	.0628094	.0523000	.4930994	-.004858	.0339932	97.22888	2.540147
#2	.0622471	.0538159	.4998559	-.003634	.0385050	95.66254	2.499161
#3	.0653701	.0563467	.5062240	-.009997	.0364020	97.10833	2.542332

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0081105	.0233154	785.5191	.1608489	.2205243	.2310907	234.9635
Stddev	.0000310	.0005036	6.2351	.0119402	.0039078	.0061819	2.0187
%RSD	.3822916	2.159963	.7937598	7.423212	1.772050	2.675116	.8591760
#1	.0080790	.0227424	789.1685	.1737730	.2160452	.2316867	236.0040
#2	.0081113	.0235161	778.3196	.1502283	.2232371	.2246323	232.6367
#3	.0081410	.0236878	789.0691	.1585453	.2222906	.2369530	236.2497

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	28.75557	236.6009	.3516946	-.018797	2.616964	.2069055	1.315733
Stddev	.26232	1.5061	.0060194	.003626	.248665	.0002178	.074778
%RSD	.9122322	.6365384	1.711536	19.29175	9.502042	.1052668	5.683348
#1	28.90911	237.6023	.3449761	-.022684	2.838117	.2066657	1.395690
#2	28.45268	234.8689	.3535111	-.015505	2.347791	.2069596	1.247526
#3	28.90491	237.3315	.3565965	-.018203	2.664984	.2070911	1.303983

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.184651	4.764528	-.016650	.0056584	6.042859	11.51572	.0350034
Stddev	.184692	.091334	.004803	.0003343	.126569	.26045	.0012279
%RSD	5.799451	1.916956	28.84620	5.907963	2.094522	2.261731	3.507944
#1	3.340282	4.659519	-.022131	.0052824	5.896923	11.79186	.0343419
#2	2.980560	4.808559	-.013174	.0059220	6.108988	11.27447	.0364202
#3	3.233111	4.825505	-.014647	.0057707	6.122665	11.48083	.0342481

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4983-08 Acquired: 12/13/2024 18:11:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJG0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8695118	1.435449	.1538628
Stddev	.0081511	.012898	.0003442
%RSD	.9374278	.8985377	.2237107
#1	.8740155	1.443476	.1535105
#2	.8601027	1.420571	.1541983
#3	.8744173	1.442300	.1538797

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2510.145	27509.35	2571.930	2000.174	2662.049
Stddev	33.894	1521.98	30.093	105.923	46.798
%RSD	1.350284	5.532604	1.170040	5.295699	1.757983
#1	2548.701	25861.53	2538.957	1888.105	2715.951
#2	2485.045	28862.36	2597.911	2098.637	2631.777
#3	2496.690	27804.16	2578.922	2013.781	2638.419

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4983-09 Acquired: 12/13/2024 18:15:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJG1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0322374	.0191630	.2081420	-.017133	.0297585	99.40617	1.543755
Stddev	.0045262	.0012906	.0009221	.003764	.0004149	.41774	.003432
%RSD	14.04037	6.734682	.4429910	21.96722	1.394085	.4202345	.2222948
#1	.0322752	.0205592	.2085841	-.018047	.0296715	99.08898	1.540997
#2	.0367447	.0189158	.2087599	-.020356	.0302100	99.25004	1.542670
#3	.0276924	.0180138	.2070822	-.012997	.0293941	99.87949	1.547598

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0086076	.0080447	583.7717	.1445857	.1358684	.2101292	198.2020
Stddev	.0001066	.0000387	1.9836	.0007846	.0004471	.0064782	.4192
%RSD	1.238810	.4810186	.3397857	.5426303	.3290914	3.082980	.2115258
#1	.0085293	.0080874	582.9076	.1438712	.1356258	.2158267	198.1776
#2	.0085644	.0080120	582.3667	.1444605	.1355950	.2114781	197.7956
#3	.0087291	.0080348	586.0407	.1454253	.1363844	.2030827	198.6330

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.296670	81.41379	.2536075	-.018009	1.995977	.1919521	.9618992
Stddev	.013462	.49998	.0009013	.001171	.364997	.0054734	.0043784
%RSD	.2541536	.6141202	.3554129	6.501041	18.28662	2.851436	.4551831
#1	5.282762	81.05148	.2529556	-.019338	1.574655	.1980339	.9584793
#2	5.297614	81.20569	.2546361	-.017130	2.197233	.1874223	.9603845
#3	5.309635	81.98421	.2532310	-.017560	2.216044	.1904000	.9668338

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.907255	3.896529	-.026304	.0048577	1.852795	12.31799	.0287266
Stddev	.043771	.005070	.001574	.0005184	.015491	.05481	.0006367
%RSD	2.294981	.1301091	5.982171	10.67214	.8361041	.4449788	2.216365
#1	1.862933	3.897036	-.025773	.0052893	1.834912	12.34848	.0286066
#2	1.950454	3.891226	-.025064	.0042827	1.862114	12.25471	.0281586
#3	1.908378	3.901327	-.028074	.0050012	1.861358	12.35078	.0294148

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4983-09 Acquired: 12/13/2024 18:15:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJG1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.027171	1.515805	.1445141
Stddev	.007496	.004118	.0017401
%RSD	.7297646	.2716589	1.204108
#1	1.020956	1.513533	.1428403
#2	1.025061	1.513322	.1463137
#3	1.035496	1.520558	.1443882

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2472.944	27721.64	2509.253	2015.639	2787.403
Stddev	3.109	27.47	7.762	3.314	4.055
%RSD	.1257322	.0991021	.3093539	.1643949	.1454877
#1	2471.370	27753.30	2510.978	2011.858	2786.429
#2	2470.937	27707.49	2516.007	2018.039	2783.923
#3	2476.526	27704.12	2500.773	2017.020	2791.856

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4983-13 Acquired: 12/13/2024 18:18:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJG3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0404039	.0253719	.3350630	-.030353	.0285205	101.1419
Stddev	.0027518	.0032843	.0056133	.006759	.0014237	.1984
%RSD	6.810641	12.94478	1.675299	22.26722	4.991836	.1961943
#1	.0390598	.0277184	.3403290	-.035867	.0273009	101.3597
#2	.0385825	.0216185	.3357028	-.032380	.0281757	101.0944
#3	.0435694	.0267787	.3291572	-.022813	.0300849	100.9715

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.484141	.0085974	.0097633	F 1214.946	.1516195	.1442684
Stddev	.004739	.0001083	.0000634	5.206	.0007097	.0005202
%RSD	.3193253	1.259955	.6497772	.4285227	.4680563	.3605760
#1	1.489177	.0085901	.0098344	1220.911	.1519078	.1448481
#2	1.483480	.0087092	.0097429	1212.606	.1508111	.1438424
#3	1.479768	.0084929	.0097126	1211.319	.1521397	.1441146

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2125471	210.8963	7.376397	453.7781	.2730719	-.018680
Stddev	.0058827	.4015	.016296	.5755	.0020221	.000501
%RSD	2.767707	.1904009	.2209151	.1268211	.7404846	2.682251
#1	.2150727	211.3579	7.394980	454.4175	.2748168	-.018765
#2	.2058234	210.7043	7.364545	453.6149	.2708559	-.018142
#3	.2167454	210.6269	7.369667	453.3018	.2735431	-.019133

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.910370	.1837002	1.458538	3.901360	4.178525	-.003419
Stddev	.569230	.0052739	.013620	.085858	.013330	.003190
%RSD	19.55868	2.870908	.9338242	2.200716	.3190015	93.28734
#1	3.509188	.1826796	1.449659	3.988172	4.189063	-.003805
#2	2.845661	.1790112	1.451735	3.816489	4.182972	-.000054
#3	2.376259	.1894097	1.474219	3.899418	4.163541	-.006399

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4983-13 Acquired: 12/13/2024 18:18:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJG3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040507	9.556459	11.51110	.0366500	.9188303	1.594703
Stddev	.0002394	.044071	.04340	.0010908	.0042090	.004731
%RSD	5.909499	.4611672	.3770147	2.976139	.4580766	.2966856
#1	.0039366	9.606168	11.56076	.0373064	.9215351	1.599413
#2	.0043258	9.541040	11.49207	.0372527	.9209748	1.594747
#3	.0038898	9.522169	11.48047	.0353909	.9139810	1.589951

Elem	Li6707
Units	ppm
Avg	.1823691
Stddev	.0049017
%RSD	2.687793
#1	.1813747
#2	.1780408
#3	.1876918

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2312.604	25919.26	2440.045	1877.581	2474.510
Stddev	7.519	138.76	16.750	9.788	4.480
%RSD	.3251279	.5353379	.6864616	.5213067	.1810640
#1	2321.285	25809.36	2421.960	1873.702	2477.173
#2	2308.346	26075.17	2455.026	1888.714	2469.338
#3	2308.179	25873.24	2443.148	1870.328	2477.021

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4983-14 Acquired: 12/13/2024 18:22:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJG4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0368451	.0322387	.4594240	-.037481	.0047220	18.97166
Stddev	.0018394	.0013281	.0024369	.004434	.0011913	.00922
%RSD	4.992209	4.119600	.5304176	11.82868	25.22919	.0486121
#1	.0383625	.0323043	.4613400	-.037000	.0060857	18.96124
#2	.0347994	.0335329	.4602506	-.033307	.0038833	18.97499
#3	.0373735	.0308791	.4566813	-.042135	.0041971	18.97876

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1715348	.0028360	.0059765	F 1365.029	.0505906	.0771337
Stddev	.0000642	.0000849	.0001054	11.197	.0005438	.0005944
%RSD	.0374221	2.992571	1.763073	.8202468	1.074983	.7705743
#1	.1715002	.0027549	.0058624	1376.703	.0501207	.0764475
#2	.1714953	.0029242	.0060701	1364.003	.0504648	.0774867
#3	.1716089	.0028290	.0059970	1354.380	.0511863	.0774670

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1766754	89.71418	7.758857	720.5492	.0844714	-.006489
Stddev	.0039187	.30863	.025529	1.7691	.0010717	.000771
%RSD	2.218031	.3440141	.3290343	.2455279	1.268683	11.88889
#1	.1811980	89.79947	7.742776	718.8283	.0841232	-.007314
#2	.1742878	89.37188	7.745503	720.4563	.0836171	-.006365
#3	.1745404	89.97120	7.788294	722.3629	.0856739	-.005786

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.184703	.0496494	1.022391	9.847265	2.466443	.0813497
Stddev	.194154	.0032261	.009923	.131015	.002061	.0022856
%RSD	6.096453	6.497726	.9705523	1.330466	.0835582	2.809623
#1	3.400488	.0531028	1.014379	9.899055	2.468718	.0831013
#2	3.129473	.0491325	1.033490	9.944468	2.465907	.0787642
#3	3.024148	.0467130	1.019303	9.698272	2.464703	.0821835

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4983-14 Acquired: 12/13/2024 18:22:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJG4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001303	24.68342	8.704825	.0551952	.1746524	.5418887
Stddev	.000407	.07224	.045405	.0013106	.0025832	.0012337
%RSD	31.21995	.2926664	.5216050	2.374542	1.479069	.2276648
#1	-.001096	24.76359	8.757020	.0540115	.1716817	.5415023
#2	-.001041	24.62337	8.674445	.0566037	.1763705	.5408945
#3	-.001772	24.66331	8.683010	.0549705	.1759051	.5432693

Elem	Li6707
Units	ppm
Avg	.0627083
Stddev	.0020601
%RSD	3.285245
#1	.0640523
#2	.0637362
#3	.0603365

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2197.560	24910.67	2325.484	1784.641	2447.931
Stddev	1.085	96.40	8.993	5.725	1.683
%RSD	.0493565	.3869979	.3867240	.3208155	.0687330
#1	2197.070	24967.84	2316.607	1779.377	2449.094
#2	2196.807	24799.37	2334.589	1783.810	2446.002
#3	2198.803	24964.81	2325.255	1790.737	2448.698

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: CCV010 Acquired: 12/13/2024 18:32:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV010 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.813776	4.949035	23.72527	4.517203	4.616963	382.4420	9.738916
Stddev	.006047	.018769	.05322	.009058	.022767	1.8883	.045976
%RSD	.1256269	.3792396	.2242993	.2005165	.4931114	.4937541	.4720815
#1	4.809861	4.938247	23.70245	4.512067	4.610509	384.6205	9.790694
#2	4.810726	4.938150	23.68728	4.511880	4.598121	381.4318	9.723178
#3	4.820741	4.970707	23.78609	4.527661	4.642261	381.2736	9.702876

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4818012	2.370615	394.3218	14.60725	2.336108	14.91390	394.7957
Stddev	.0054980	.005747	2.1776	.08538	.003857	.06989	1.8918
%RSD	1.141131	.2424380	.5522322	.5844727	.1650896	.4686337	.4791801
#1	.4865982	2.369943	396.7545	14.57638	2.335590	14.97876	396.9240
#2	.4758014	2.365233	392.5546	14.54161	2.332536	14.92305	394.1579
#3	.4830039	2.376668	393.6564	14.70377	2.340197	14.83988	393.3053

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.72782	379.4505	2.393647	1.224453	383.4285	2.456351	13.70404
Stddev	.07325	2.5109	.003441	.008043	2.7568	.011746	.05786
%RSD	.4973364	.6617281	.1437750	.6568750	.7189807	.4782022	.4221818
#1	14.80598	382.1286	2.394387	1.226783	386.2366	2.465281	13.64267
#2	14.71671	379.0738	2.389896	1.215503	383.3229	2.460727	13.75758
#3	14.66076	377.1493	2.396658	1.231074	380.7261	2.443044	13.71186

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	142.6892	4.724129	4.669166	4.634931	4.663444	4.836362	4.806605
Stddev	.3400	.009809	.043264	.017398	.005868	.040522	.007361
%RSD	.2383078	.2076261	.9265979	.3753614	.1258193	.8378580	.1531427
#1	143.0791	4.727676	4.706850	4.624087	4.661175	4.873653	4.803283
#2	142.4539	4.713040	4.621921	4.625706	4.659049	4.793241	4.801491
#3	142.5347	4.731670	4.678727	4.654998	4.670107	4.842192	4.815042

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: CCV010 Acquired: 12/13/2024 18:32:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV010 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	4.966945	4.603634	5.033048
Stddev	.046413	.019556	.028507
%RSD	.9344355	.4247878	.5663955
#1	5.020502	4.624478	5.065073
#2	4.938464	4.600734	5.023625
#3	4.941869	4.585691	5.010445

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1950.289	23958.18	2201.525	1643.009	2564.802
Stddev	4.315	14.42	15.285	3.462	1.994
%RSD	.2212571	.0601993	.6942840	.2107199	.0777311
#1	1952.825	23953.00	2183.911	1644.569	2564.004
#2	1952.734	23974.48	2209.355	1639.041	2567.071
#3	1945.306	23947.06	2211.308	1645.417	2563.330

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: CCB010 Acquired: 12/13/2024 18:45:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB010 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001048	.0015622	-.000063	-.001501	.0023237	-.005267
Stddev	.003591	.0017781	.002139	.004861	.0035446	.006589
%RSD	342.4958	113.8195	3384.740	323.8174	152.5364	125.0934
#1	-.001557	.0002186	.002110	-.003817	.0030964	.001013
#2	.002770	.0035784	-.000132	.004085	.0054182	-.012127
#3	-.004358	.0008894	-.002167	-.004772	-.001543	-.004687

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011479	.0000530	-.000036	-.022312	-.000413	.0005170
Stddev	.0006824	.0000686	.000028	.018443	.000237	.0003642
%RSD	59.44674	129.2768	78.19773	82.65857	57.32248	70.44407
#1	.0003609	.0000038	-.000058	-.029729	-.000326	.0007926
#2	.0015080	.0001314	-.000004	-.035891	-.000233	.0001041
#3	.0015747	.0000240	-.000046	-.001315	-.000682	.0006543

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004542	-.012112	.0004299	-.005828	-.000420	.0011318
Stddev	.006074	.012182	.0006923	.113012	.000460	.0021146
%RSD	133.7303	100.5771	161.0574	1939.144	109.3856	186.8322
#1	-.009471	-.006201	.0002645	.039204	-.000508	.0026222
#2	-.006400	-.004014	.0011899	.077726	.000077	-.001288
#3	.002244	-.026123	-.000165	-.134414	-.000830	.002062

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.050937	-.013714	.0019596	-.498972	-.002359	-.007139
Stddev	.718059	.005394	.0087051	.100986	.000574	.001122
%RSD	35.01126	39.32982	444.2326	20.23884	24.32173	15.72183
#1	2.723765	-.008377	.0101126	-.517880	-.001733	-.006019
#2	2.134147	-.013603	-.007209	-.589169	-.002860	-.008263
#3	1.294898	-.019163	.002975	-.389869	-.002484	-.007135

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: CCB010 Acquired: 12/13/2024 18:45:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB010 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000090	-.004184	-.040186	-.000640	-.002991	-.000192
Stddev	.000276	.003357	.000765	.001109	.003707	.000122
%RSD	306.5233	80.23703	1.902533	173.2073	123.9496	63.81632
#1	-.000404	-.004570	-.040106	.000226	.000745	-.000160
#2	.000115	-.007330	-.039465	-.001891	-.003049	-.000088
#3	.000019	-.000650	-.040988	-.000256	-.006668	-.000327

Elem	Li6707
Units	ppm
Avg	F -.045068
Stddev	.005451
%RSD	12.09515
#1	-.046078
#2	-.039183
#3	-.049944

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2403.826	26512.75	2320.467	1958.268	3294.821
Stddev	4.656	71.17	13.738	7.268	8.487
%RSD	.1936966	.2684400	.5920305	.3711534	.2575722
#1	2401.282	26478.98	2313.794	1953.840	3285.022
#2	2400.995	26594.52	2311.340	1954.309	3299.630
#3	2409.199	26464.74	2336.267	1966.657	3299.810

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4983-15 Acquired: 12/13/2024 18:49:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJG5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0612599	.0370064	1.019579	-.035778	.0076071	32.52055
Stddev	.0014367	.0020558	.001437	.004685	.0011177	.12251
%RSD	2.345186	5.555256	.1409082	13.09464	14.69336	.3767232
#1	.0606574	.0361331	1.018820	-.041138	.0063232	32.38517
#2	.0602225	.0393547	1.018681	-.033730	.0081354	32.55270
#3	.0628997	.0355315	1.021236	-.032465	.0083628	32.62378

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2785220	.0035498	.0114442	F 1355.596	.0737348	.0891037
Stddev	.0010721	.0000316	.0000788	10.912	.0010642	.0012938
%RSD	.3849070	.8916566	.6883905	.8049607	1.443320	1.451986
#1	.2779031	.0035862	.0115339	1344.290	.0726405	.0884296
#2	.2779029	.0035288	.0114129	1366.066	.0737977	.0882862
#3	.2797598	.0035345	.0113860	1356.432	.0747661	.0905954

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6866826	126.5325	9.640651	714.2625	.1175269	-.006739
Stddev	.0077319	.3898	.039365	1.5198	.0004407	.000066
%RSD	1.125973	.3080269	.4083277	.2127827	.3749688	.9866639
#1	.6779884	126.4114	9.604895	713.2457	.1179226	-.006768
#2	.6927873	126.2176	9.634224	713.5321	.1176061	-.006785
#3	.6892722	126.9684	9.682834	716.0096	.1170519	-.006662

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.953082	.0747819	2.872565	7.797659	3.752625	.0502999
Stddev	.759328	.0032924	.012153	.022027	.011588	.0027284
%RSD	25.71308	4.402691	.4230609	.2824792	.3087928	5.424299
#1	2.086840	.0754590	2.868001	7.790628	3.745473	.0480998
#2	3.268738	.0776831	2.886338	7.822343	3.746408	.0494470
#3	3.503669	.0712036	2.863354	7.780006	3.765995	.0533528

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4983-15 Acquired: 12/13/2024 18:49:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJG5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000208	20.86891	10.64512	.1604150	.4320649	.4927430
Stddev	.000424	.04897	.06081	.0018794	.0014379	.0013145
%RSD	203.5371	.2346343	.5712254	1.171604	.3327992	.2667725
#1	-.000697	20.84071	10.69627	.1586664	.4316207	.4916265
#2	.000044	20.84057	10.57789	.1601761	.4336725	.4924108
#3	.000029	20.92545	10.66120	.1624025	.4309015	.4941918

Elem	Li6707
Units	ppm
Avg	.0846216
Stddev	.0061045
%RSD	7.213832
#1	.0911304
#2	.0837104
#3	.0790239

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2268.338	25752.69	2405.619	1857.091	2460.074
Stddev	8.635	78.29	7.186	10.588	9.980
%RSD	.3806572	.3040045	.2986980	.5701265	.4056668
#1	2260.636	25832.47	2403.438	1865.856	2459.238
#2	2277.672	25675.99	2413.643	1845.327	2470.446
#3	2266.707	25749.60	2399.777	1860.089	2450.540

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4983-16 Acquired: 12/13/2024 18:53:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJG6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0586770	.0356506	.6603512	-.021487	.0179140	54.08659
Stddev	.0059931	.0053262	.0053625	.005542	.0003865	.27963
%RSD	10.21370	14.94000	.8120613	25.79215	2.157557	.5170001
#1	.0519580	.0298093	.6602541	-.024021	.0179998	53.77111
#2	.0606016	.0402380	.6657616	-.025309	.0174918	54.30390
#3	.0634713	.0369044	.6550380	-.015131	.0182504	54.18474

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4207081	.0045828	.0074760	F 863.2091	.0843441	.1123324
Stddev	.0026757	.0000990	.0000746	3.9102	.0005597	.0002201
%RSD	.6360032	2.160215	.9978548	.4529793	.6635391	.1959089
#1	.4177544	.0045904	.0074665	858.6951	.0839015	.1122001
#2	.4214000	.0044802	.0074065	865.3827	.0841577	.1122107
#3	.4229699	.0046777	.0075548	865.5496	.0849732	.1125865

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3804835	144.2414	9.684739	429.3945	.1701561	-.010426
Stddev	.0033033	.7129	.037220	2.1857	.0006433	.000763
%RSD	.8681710	.4942125	.3843133	.5090197	.3780490	7.316843
#1	.3833869	143.6132	9.649608	426.9756	.1706588	-.011242
#2	.3811740	145.0162	9.723744	431.2277	.1694312	-.009730
#3	.3768896	144.0949	9.680865	429.9801	.1703785	-.010306

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.883110	.1220509	1.827314	5.592890	7.408623	.0069562
Stddev	.285497	.0072138	.000995	.108767	.016047	.0006670
%RSD	9.902380	5.910481	.0544632	1.944729	.2165991	9.588707
#1	3.181449	.1183495	1.826729	5.473855	7.427113	.0063656
#2	2.855407	.1174392	1.828463	5.617720	7.398335	.0068234
#3	2.612475	.1303641	1.826750	5.687094	7.400421	.0076796

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4983-16 Acquired: 12/13/2024 18:53:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJG6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003218	11.74191	9.507239	.1066251	.8870417	.3409080
Stddev	.0008452	.02271	.053087	.0029480	.0052028	.0010612
%RSD	262.6366	.1934386	.5583842	2.764821	.5865300	.3112738
#1	.0001581	11.76532	9.473621	.1038421	.8826015	.3397801
#2	-.000430	11.74044	9.568439	.1063191	.8927664	.3418866
#3	.001237	11.71997	9.479656	.1097142	.8857573	.3410573

Elem	Li6707
Units	ppm
Avg	.0940121
Stddev	.0009381
%RSD	.9978870
#1	.0929312
#2	.0944908
#3	.0946143

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2489.244	28226.27	2583.710	2032.421	2579.763
Stddev	9.839	76.59	15.936	7.739	7.974
%RSD	.3952668	.2713414	.6167823	.3807786	.3091072
#1	2489.217	28191.37	2589.452	2026.463	2579.370
#2	2499.097	28173.36	2565.699	2029.632	2587.926
#3	2479.419	28314.10	2595.980	2041.168	2571.992

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4983-17 Acquired: 12/13/2024 18:57:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJG7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0721825	.0376732	.6627788	-.019886	.0142997	42.99033
Stddev	.0011212	.0013494	.0015416	.007831	.0010674	.01218
%RSD	1.553345	3.581888	.2325927	39.37867	7.464193	.0283309
#1	.0727369	.0361860	.6621854	-.014197	.0155295	43.00432
#2	.0708920	.0388193	.6616220	-.028817	.0137555	42.98211
#3	.0729185	.0380143	.6645288	-.016644	.0136142	42.98455

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5143266	.0040598	.0075113	F 929.9325	.0672863	.1001338
Stddev	.0009542	.0001878	.0001091	2.2697	.0007202	.0010449
%RSD	.1855220	4.625226	1.452324	.2440680	1.070400	1.043464
#1	.5151856	.0038430	.0075769	932.2538	.0665240	.0990095
#2	.5132996	.0041672	.0073854	927.7182	.0673793	.1003170
#3	.5144946	.0041692	.0075717	929.8257	.0679554	.1010750

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3775204	128.2129	13.32377	374.9341	.1350994	-.007343
Stddev	.0024616	.2610	.01277	.4043	.0005297	.000163
%RSD	.6520363	.2035420	.0958523	.1078205	.3920861	2.216637
#1	.3760510	128.1672	13.31038	374.5017	.1349967	-.007531
#2	.3803623	127.9777	13.33581	374.9980	.1356730	-.007246
#3	.3761481	128.4936	13.32513	375.3026	.1346286	-.007252

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.218083	.0882216	1.477937	4.242140	5.968971	.0124398
Stddev	.759145	.0093515	.000824	.128503	.042685	.0009113
%RSD	23.58997	10.60006	.0557481	3.029200	.7151182	7.325370
#1	2.377795	.0890513	1.476989	4.278084	5.933141	.0117033
#2	3.422037	.0784828	1.478480	4.099492	5.957574	.0121573
#3	3.854417	.0971306	1.478343	4.348844	6.016198	.0134588

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4983-17 Acquired: 12/13/2024 18:57:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJG7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045033	10.03828	9.866198	.0701115	.7324251	.4372785
Stddev	.0006608	.03502	.042510	.0003707	.0043682	.0005520
%RSD	14.67382	.3488953	.4308683	.5287311	.5963992	.1262362
#1	.0046347	10.00059	9.863810	.0703195	.7373415	.4374436
#2	.0050885	10.04445	9.824933	.0696836	.7309431	.4377292
#3	.0037867	10.06982	9.909853	.0703316	.7289907	.4366628

Elem	Li6707
Units	ppm
Avg	.0531786
Stddev	.0032285
%RSD	6.071119
#1	.0568347
#2	.0507197
#3	.0519814

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2456.059	27787.16	2520.958	1996.108	2551.109
Stddev	8.200	17.15	2.522	4.009	9.529
%RSD	.3338862	.0617029	.1000536	.2008618	.3735153
#1	2462.257	27767.39	2522.406	1998.951	2559.237
#2	2459.160	27797.94	2522.423	1991.522	2553.467
#3	2446.761	27796.16	2518.046	1997.850	2540.622

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4983-18 Acquired: 12/13/2024 19:00:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJG8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0568188	.0407224	.5119619	-.030518	.0043300	35.19933
Stddev	.0030165	.0019177	.0045966	.005367	.0031784	.30242
%RSD	5.308927	4.709121	.8978349	17.58589	73.40464	.8591586
#1	.0597897	.0408245	.5122039	-.035934	.0023675	34.86298
#2	.0569078	.0387557	.5072491	-.030418	.0079971	35.44880
#3	.0537588	.0425870	.5164327	-.025202	.0026254	35.28621

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3864113	.0033161	.0071339	F 1262.002	.0573933	.1056688
Stddev	.0034576	.0000726	.0000490	12.785	.0005246	.0004399
%RSD	.8948002	2.190036	.6867482	1.013099	.9139824	.4162975
#1	.3825021	.0032369	.0071150	1247.585	.0568718	.1052920
#2	.3890685	.0033795	.0071895	1271.962	.0579209	.1055622
#3	.3876633	.0033321	.0070972	1266.458	.0573872	.1061522

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2876030	109.6009	12.18793	353.4171	.1154493	-.007190
Stddev	.0114111	.8395	.08055	2.2699	.0007864	.000157
%RSD	3.967641	.7659591	.6608860	.6422749	.6811778	2.182579
#1	.2779771	108.6315	12.09910	350.9029	.1147781	-.007370
#2	.2846238	110.0817	12.25622	355.3157	.1163146	-.007116
#3	.3002082	110.0895	12.20848	354.0327	.1152554	-.007083

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.037738	.0780488	1.199445	3.474186	5.459786	.0207840
Stddev	.563172	.0042527	.013230	.132763	.005735	.0004891
%RSD	18.53919	5.448821	1.102977	3.821423	.1050440	2.353157
#1	3.195779	.0825237	1.201754	3.320884	5.466344	.0204237
#2	2.412430	.0740600	1.185213	3.550676	5.457309	.0213408
#3	3.505005	.0775626	1.211369	3.550998	5.455706	.0205876

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4983-18 Acquired: 12/13/2024 19:00:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJG8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004007	9.250649	9.782999	.0601380	.5587451	.7614705
Stddev	.0003497	.019244	.053058	.0023484	.0040711	.0049370
%RSD	87.28204	.2080263	.5423530	3.905002	.7286212	.6483496
#1	.0002190	9.246648	9.757651	.0585078	.5540501	.7566213
#2	.0008039	9.233720	9.843978	.0628297	.5612979	.7664908
#3	.0001792	9.271578	9.747370	.0590765	.5608872	.7612995

Elem	Li6707
Units	ppm
Avg	.0558280
Stddev	.0050685
%RSD	9.078706
#1	.0616046
#2	.0537536
#3	.0521258

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2396.336	26973.91	2482.129	1945.467	2504.404
Stddev	3.660	79.50	11.017	2.723	3.561
%RSD	.1527506	.2947371	.4438589	.1399790	.1421955
#1	2392.775	27063.52	2493.891	1948.550	2500.336
#2	2400.089	26946.34	2472.051	1943.388	2505.918
#3	2396.145	26911.86	2480.446	1944.464	2506.959

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4983-19 Acquired: 12/13/2024 19:04:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJG9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0382780	.0479902	.3410011	-.046845	-.000109	22.11634
Stddev	.0034268	.0024252	.0040488	.007259	.000867	.07878
%RSD	8.952348	5.053551	1.187335	15.49609	796.8681	.3562082
#1	.0352240	.0505797	.3370978	-.048803	-.000979	22.06650
#2	.0419839	.0476187	.3451812	-.038807	.000755	22.20717
#3	.0376260	.0457721	.3407244	-.052924	-.000102	22.07536

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3033070	.0021440	.0049919	F 2068.530	.0417934	.0857583
Stddev	.0007294	.0000539	.0000785	25.224	.0006005	.0008559
%RSD	.2404654	2.512005	1.572083	1.219403	1.436838	.9979796
#1	.3025367	.0021557	.0050338	2051.305	.0424868	.0865510
#2	.3039869	.0020852	.0049014	2097.482	.0414513	.0858731
#3	.3033973	.0021910	.0050406	2056.802	.0414421	.0848509

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1694113	85.32959	11.91893	305.8894	.0864213	-.004948
Stddev	.0175065	.22280	.02067	1.1270	.0012387	.000905
%RSD	10.33374	.2611014	.1734267	.3684415	1.433373	18.29576
#1	.1861746	85.12441	11.89639	305.1161	.0872077	-.005892
#2	.1708134	85.56658	11.93701	307.1825	.0849933	-.004087
#3	.1512459	85.29777	11.92339	305.3696	.0870627	-.004867

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.734359	.0476859	.6846766	2.748845	3.515015	.0294417
Stddev	.275299	.0099718	.0077019	.250222	.008986	.0024249
%RSD	10.06814	20.91142	1.124890	9.102813	.2556456	8.236130
#1	2.487830	.0418056	.6913838	3.037776	3.508576	.0302942
#2	2.683822	.0591995	.6762654	2.604800	3.511188	.0313252
#3	3.031425	.0420528	.6863804	2.603958	3.525281	.0267057

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4983-19 Acquired: 12/13/2024 19:04:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJG9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001711	8.528763	9.068197	.0356167	.3115030	1.383045
Stddev	.000523	.019375	.083544	.0005201	.0045125	.002312
%RSD	30.55235	.2271706	.9212836	1.460277	1.448629	.1671921
#1	-.002298	8.515261	9.007148	.0361520	.3081293	1.382765
#2	-.001294	8.520065	9.163408	.0351133	.3166288	1.385485
#3	-.001542	8.550962	9.034036	.0355849	.3097509	1.380886

Elem	Li6707
Units	ppm
Avg	.0663889
Stddev	.0041592
%RSD	6.264924
#1	.0627461
#2	.0654999
#3	.0709208

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2284.419	25858.42	2431.240	1864.346	2431.696
Stddev	1.251	43.64	17.836	6.501	1.769
%RSD	.0547630	.1687470	.7336107	.3486863	.0727667
#1	2283.637	25809.70	2447.246	1857.125	2429.654
#2	2283.757	25893.89	2412.013	1869.732	2432.659
#3	2285.861	25871.68	2434.461	1866.180	2432.776

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4983-20 Acquired: 12/13/2024 19:08:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJH0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0175701	.0560995	.1668180	-.054306	-.006461	17.10472
Stddev	.0019338	.0013604	.0010482	.002274	.000886	.32585
%RSD	11.00624	2.425000	.6283269	4.187658	13.71849	1.905045
#1	.0195872	.0552827	.1670333	-.054473	-.005767	16.75066
#2	.0173909	.0553457	.1677418	-.051953	-.006156	17.17148
#3	.0157321	.0576699	.1656789	-.056492	-.007459	17.39203

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2427790	.0014837	.0033747	F 3017.102	.0317913	.0855395
Stddev	.0044162	.0001211	.0000408	56.543	.0009378	.0006298
%RSD	1.819013	8.164421	1.209365	1.874078	2.949898	.7362550
#1	.2381214	.0016234	.0033573	2953.225	.0308361	.0855889
#2	.2433099	.0014183	.0033454	3060.740	.0327107	.0848864
#3	.2469057	.0014092	.0034213	3037.341	.0318272	.0861431

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1206867	67.73464	13.37480	187.1269	.0691506	-.004109
Stddev	.0043407	1.18566	.23152	3.1230	.0009969	.001163
%RSD	3.596637	1.750443	1.730982	1.668909	1.441568	28.31668
#1	.1170630	66.52708	13.13859	184.0035	.0680672	-.002765
#2	.1254974	67.77974	13.38450	187.1278	.0700291	-.004797
#3	.1194997	68.89711	13.60132	190.2494	.0693555	-.004764

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.024048	.0364694	.3853159	1.480434	3.633023	.0329928
Stddev	.286508	.0039307	.0073525	.122185	.005984	.0031818
%RSD	7.119892	10.77807	1.908180	8.253322	.1647072	9.643970
#1	4.275317	.0322638	.3772063	1.465463	3.631312	.0293188
#2	3.712041	.0370941	.3871948	1.366424	3.628080	.0348497
#3	4.084784	.0400504	.3915467	1.609414	3.639675	.0348099

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4983-20 Acquired: 12/13/2024 19:08:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJH0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003170	4.344987	8.205947	.0285791	.1863253	2.267934
Stddev	.000486	.005736	.146420	.0030643	.0058603	.041229
%RSD	15.33866	.1320060	1.784319	10.72216	3.145190	1.817913
#1	-.003686	4.348925	8.067872	.0321173	.1795718	2.225945
#2	-.003103	4.347628	8.190484	.0267900	.1893339	2.269498
#3	-.002721	4.338406	8.359485	.0268298	.1900702	2.308359

Elem	Li6707
Units	ppm
Avg	.0868123
Stddev	.0023299
%RSD	2.683789
#1	.0856183
#2	.0894971
#3	.0853214

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2261.757	25855.47	2464.741	1868.502	2362.679
Stddev	2.693	166.70	37.137	10.603	3.158
%RSD	.1190766	.6447237	1.506746	.5674791	.1336520
#1	2261.465	26033.11	2503.319	1880.745	2361.354
#2	2259.221	25702.46	2461.669	1862.318	2360.400
#3	2264.584	25830.84	2429.235	1862.443	2366.284

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4983-21 Acquired: 12/13/2024 19:12:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJH1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1998039	.0297451	8.239006	.0061479	.0335205	62.12499	1.521285
Stddev	.0004521	.0007911	.007317	.0023065	.0008241	.24748	.004100
%RSD	.2262873	2.659587	.0888117	37.51610	2.458649	.3983652	.2694804
#1	.2001220	.0292554	8.237418	.0064691	.0337923	62.32809	1.525081
#2	.2000033	.0306578	8.232613	.0082769	.0341744	62.19754	1.521836
#3	.1992863	.0293222	8.246986	.0036977	.0325947	61.84934	1.516938

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0068965	.0057088	184.7934	.0916977	.1311706	.4063077	187.3131
Stddev	.0000855	.0000580	.8385	.0002827	.0002336	.0072678	.7204
%RSD	1.239884	1.016531	.4537659	.3083283	.1780709	1.788751	.3845833
#1	.0068265	.0056793	185.2478	.0919997	.1312160	.4107468	187.9223
#2	.0068711	.0057756	185.3067	.0916541	.1313781	.3979203	187.4991
#3	.0069918	.0056714	183.8258	.0914393	.1309176	.4102559	186.5180

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.54547	29.77709	.1729341	-.011331	2.316555	.2011977	.5765872
Stddev	.05716	.14298	.0009198	.001013	.055434	.0038613	.0054696
%RSD	.3257929	.4801698	.5318554	8.944352	2.392937	1.919164	.9486141
#1	17.59540	29.77613	.1720115	-.012452	2.295886	.2005161	.5798211
#2	17.55789	29.92055	.1729399	-.010480	2.274426	.1977226	.5796683
#3	17.48311	29.63460	.1738510	-.011060	2.379354	.2053545	.5702720

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.611206	8.867218	-.029613	.0082434	3.000178	9.026997	.0497995
Stddev	.061934	.013958	.001575	.0003627	.001014	.023774	.0019669
%RSD	2.371853	.1574092	5.320119	4.399830	.0338070	.2633639	3.949559
#1	2.608720	8.867348	-.030179	.0083623	2.999051	9.050558	.0483882
#2	2.674346	8.853196	-.030827	.0085318	3.000463	9.027419	.0520461
#3	2.550553	8.881111	-.027832	.0078362	3.001019	9.003016	.0489641

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4983-21 Acquired: 12/13/2024 19:12:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJH1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.647766	.1617157	.0458271
Stddev	.005397	.0004540	.0008239
%RSD	.3275271	.2807406	1.797814
#1	1.645657	.1621626	.0464841
#2	1.653898	.1612549	.0460946
#3	1.643741	.1617295	.0449028

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2823.250	31504.32	2805.504	2297.425	2967.828
Stddev	6.706	113.67	10.783	3.637	4.411
%RSD	.2375339	.3608023	.3843410	.1583272	.1486343
#1	2816.717	31432.95	2797.003	2301.353	2962.782
#2	2822.917	31635.40	2817.633	2296.747	2970.956
#3	2830.117	31444.61	2801.875	2294.173	2969.745

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4940-16DLX2 Acquired: 12/13/2024 19:16:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0210719	.0276189	.2050273	-.032735	-.002575	13.31642	.0832669
Stddev	.0015427	.0008679	.0004358	.001567	.001491	.05637	.0010572
%RSD	7.321302	3.142346	.2125475	4.785528	57.90234	.4233389	1.269615
#1	.0192927	.0284888	.2046012	-.031748	-.003416	13.26067	.0843259
#2	.0220386	.0267530	.2054722	-.031914	-.003455	13.31519	.0832634
#3	.0218843	.0276149	.2050086	-.034541	-.000853	13.37339	.0822115

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017834	.0022972	581.1424	.0288580	.0541838	.0603398	48.48952
Stddev	.0001109	.0001230	1.9803	.0008059	.0003970	.0009331	.22450
%RSD	6.219851	5.353653	.3407588	2.792769	.7327476	1.546328	.4629898
#1	.0018960	.0022192	580.2794	.0296391	.0544895	.0610685	48.25006
#2	.0017798	.0022334	583.4077	.0280293	.0537351	.0606628	48.69525
#3	.0016743	.0024389	579.7400	.0289057	.0543269	.0592882	48.52326

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.209681	307.7924	.0519360	-.002122	2.934080	.0450223	.4068576
Stddev	.012706	1.1425	.0006900	.000370	.662820	.0091679	.0040847
%RSD	.3958671	.3711756	1.328640	17.41663	22.59039	20.36291	1.003960
#1	3.195482	306.9647	.0521264	-.001987	3.327834	.0345684	.4103698
#2	3.219980	309.0958	.0525109	-.002540	3.305576	.0488051	.4023752
#3	3.213580	307.3167	.0511708	-.001839	2.168829	.0516935	.4078278

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.196679	1.861591	.0537908	-.000864	8.801196	5.064065	.0177571
Stddev	.105507	.006565	.0013679	.000614	.018827	.022578	.0015576
%RSD	3.300514	.3526420	2.542985	70.99169	.2139135	.4458539	8.771858
#1	3.081997	1.861722	.0541636	-.000963	8.820653	5.041022	.0163122
#2	3.218415	1.854962	.0522751	-.000207	8.783069	5.086148	.0175520
#3	3.289625	1.868089	.0549336	-.001423	8.799866	5.065026	.0194072

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4940-16DLX2 Acquired: 12/13/2024 19:16:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1264917	.2415531	.0033612
Stddev	.0024783	.0006588	.0043689
%RSD	1.959294	.2727412	129.9814
#1	.1276929	.2408547	.0047009
#2	.1281407	.2421634	.0069033
#3	.1236417	.2416412	-.001521

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2288.024	25689.36	2323.331	1865.746	2730.716
Stddev	9.873	62.40	14.901	5.692	8.887
%RSD	.4314988	.2428985	.6413441	.3050817	.3254435
#1	2286.341	25744.91	2336.832	1872.302	2725.390
#2	2298.631	25621.84	2307.344	1862.068	2740.975
#3	2279.102	25701.33	2325.817	1862.867	2725.783

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4940-17DLX2 Acquired: 12/13/2024 19:20:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX8D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0194942	.0269296	.2537041	-.034000	-.003157	13.64014	.0853385
Stddev	.0037703	.0047220	.0027164	.006354	.001692	.04638	.0002612
%RSD	19.34073	17.53454	1.070688	18.68715	53.58426	.3399936	.3061172
#1	.0204682	.0269190	.2564641	-.026805	-.003182	13.59952	.0851369
#2	.0226820	.0222130	.2536145	-.038840	-.001453	13.63023	.0856336
#3	.0153325	.0316569	.2510336	-.036353	-.004835	13.69067	.0852450

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018118	.0023256	597.5254	.0297881	.0555612	.0641072	50.73609
Stddev	.0001294	.0001381	1.8223	.0005514	.0006790	.0011029	.32186
%RSD	7.141776	5.937929	.3049805	1.850964	1.222047	1.720378	.6343873
#1	.0019569	.0022018	595.6058	.0303829	.0551821	.0638234	50.37615
#2	.0017700	.0023003	599.2317	.0296876	.0551564	.0653242	50.99623
#3	.0017084	.0024745	597.7387	.0292940	.0563451	.0631739	50.83590

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.303881	317.3760	.0548133	-.002190	1.976817	.0330874	.4013399
Stddev	.024340	1.6290	.0007413	.000760	.607774	.0013991	.0033204
%RSD	.7367139	.5132705	1.352334	34.70999	30.74509	4.228608	.8273331
#1	3.280509	315.9008	.0539589	-.002338	1.354390	.0345697	.4012552
#2	3.329086	319.1243	.0551956	-.002865	2.007269	.0317899	.3980626
#3	3.302047	317.1031	.0552853	-.001367	2.568793	.0329025	.4047018

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.431461	1.923343	.0518426	.0000522	9.679775	5.238199	.0173232
Stddev	.103371	.002395	.0027817	.0004398	.004454	.016735	.0022638
%RSD	3.012439	.1245459	5.365579	841.8340	.0460118	.3194732	13.06803
#1	3.365872	1.923045	.0495328	.0004451	9.681349	5.227199	.0199372
#2	3.377891	1.925873	.0549304	-.000423	9.683228	5.229942	.0160214
#3	3.550622	1.921110	.0510645	.000134	9.674748	5.257458	.0160110

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4940-17DLX2 Acquired: 12/13/2024 19:20:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX8D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1270723	.2497415	.0035552
Stddev	.0051961	.0015121	.0024353
%RSD	4.089104	.6054455	68.49970
#1	.1268877	.2488026	.0039411
#2	.1219710	.2514857	.0057744
#3	.1323583	.2489361	.0009500

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2277.940	25556.17	2341.248	1850.170	2718.955
Stddev	7.725	114.90	10.056	4.837	5.050
%RSD	.3391066	.4496029	.4294996	.2614428	.1857251
#1	2274.297	25470.04	2350.729	1844.699	2720.438
#2	2286.813	25511.84	2330.702	1853.880	2723.097
#3	2272.711	25686.64	2342.311	1851.932	2713.330

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4940-16LDLX10 Acquired: 12/13/2024 19:24:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX8L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0056661	.0165032	.0473112	-.027145	-.004855	2.879634	.0176912
Stddev	.0033265	.0019833	.0002606	.005204	.000985	.019770	.0010578
%RSD	58.70796	12.01767	.5508967	19.17061	20.29538	.6865567	5.979317
#1	.0095068	.0142435	.0470738	-.032430	-.005690	2.875954	.0166319
#2	.0037896	.0179551	.0472698	-.026979	-.005106	2.900986	.0176941
#3	.0037019	.0173111	.0475901	-.022027	-.003768	2.861962	.0187475

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004805	.0004890	125.4273	.0056219	.0286380	.0177646	10.74649
Stddev	.0000257	.0000816	.1032	.0005222	.0001656	.0080144	.01276
%RSD	5.338237	16.69255	.0823102	9.288708	.5781871	45.11446	.1187551
#1	.0005101	.0005793	125.5464	.0059193	.0286878	.0261117	10.73353
#2	.0004641	.0004675	125.3728	.0059276	.0284533	.0170515	10.74688
#3	.0004674	.0004204	125.3628	.0050190	.0287730	.0101306	10.75905

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7160495	68.00877	.0091455	.0009425	2.471911	.0069675	.0781679
Stddev	.0067400	.23405	.0003774	.0018062	.357226	.0086600	.0109011
%RSD	.9412815	.3441400	4.126928	191.6318	14.45141	124.2929	13.94577
#1	.7085611	67.97389	.0094805	.0002550	2.185120	.0066425	.0831411
#2	.7179574	68.25829	.0087366	-.000419	2.358550	-.001526	.0856955
#3	.7216299	67.79412	.0092194	.002992	2.872062	.015785	.0656670

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0309876	.3576391	.0016102	.0000984	1.695451	1.096260	.0020306
Stddev	.0665343	.0030509	.0012438	.0009868	.003063	.008933	.0008553
%RSD	214.7127	.8530655	77.24399	1002.939	.1806762	.8149057	42.11956
#1	-.028931	.3611217	.0007212	-.001028	1.698389	1.104258	.0026772
#2	.102590	.3554375	.0030316	.000808	1.692276	1.097903	.0023538
#3	.019304	.3563581	.0010778	.000515	1.695687	1.086619	.0010608

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4940-16LDLX10 Acquired: 12/13/2024 19:24:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX8L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0239439	.0521395	-.045011
Stddev	.0054894	.0001927	.002220
%RSD	22.92631	.3696167	4.932202
#1	.0180786	.0519337	-.045990
#2	.0247951	.0523156	-.042470
#3	.0289580	.0521693	-.046574

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2363.023	26098.67	2290.414	1909.123	3072.068
Stddev	4.901	1087.13	14.225	71.903	7.416
%RSD	.2074002	4.165467	.6210554	3.766261	.2414044
#1	2365.658	24922.45	2285.727	1831.039	3074.832
#2	2366.042	27066.55	2279.124	1972.602	3077.706
#3	2357.368	26307.02	2306.391	1923.726	3063.667

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4940-18DLX2 Acquired: 12/13/2024 19:28:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX8S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0626949	.0770076	.3676949	.0463864	.0786093	16.11154	1.980180
Stddev	.0027799	.0028268	.0011473	.0014466	.0040252	.08471	.010352
%RSD	4.434034	3.670775	.3120132	3.118641	5.120462	.5257563	.5227906
#1	.0625542	.0760962	.3664361	.0465330	.0811302	16.01594	1.968790
#2	.0599879	.0747490	.3679670	.0448720	.0807306	16.14141	1.982736
#3	.0655424	.0801777	.3686817	.0477541	.0739672	16.17726	1.989015

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0480289	.0492525	606.1443	.2242977	.5147399	.2898389	54.46579
Stddev	.0004325	.0001049	2.0069	.0006879	.0017960	.0093536	.39704
%RSD	.9004786	.2129574	.3310903	.3066736	.3489117	3.227158	.7289757
#1	.0475748	.0491921	603.8277	.2250905	.5128599	.2795758	54.00742
#2	.0484360	.0493736	607.3536	.2239435	.5149218	.2978844	54.70295
#3	.0480759	.0491918	607.2516	.2238591	.5164381	.2920566	54.68701

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.818536	329.0307	.5287386	.0354591	2.570114	.5258120	.8002757
Stddev	.019926	2.3507	.0013891	.0009080	.483428	.0121178	.0045972
%RSD	.5218139	.7144296	.2627244	2.560553	18.80959	2.304596	.5744459
#1	3.795925	326.3629	.5271354	.0364824	2.223507	.5133801	.8016736
#2	3.833527	330.7980	.5294946	.0347499	2.364472	.5264665	.7951418
#3	3.826156	329.9314	.5295857	.0351449	3.122364	.5375893	.8040116

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.562245	1.968342	.0561907	-.000210	11.13272	5.660295	.0184413
Stddev	.133666	.007308	.0022899	.000472	.03542	.010945	.0007414
%RSD	3.752309	.3712879	4.075302	224.8293	.3181286	.1933641	4.020355
#1	3.676589	1.965426	.0579045	-.000212	11.09386	5.647992	.0175892
#2	3.415291	1.962941	.0570775	.000263	11.14111	5.668950	.0189394
#3	3.594856	1.976658	.0535899	-.000681	11.16318	5.663942	.0187952

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4940-18DLX2 Acquired: 12/13/2024 19:28:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX8S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1292813	.2542938	.0033281
Stddev	.0017961	.0021856	.0042332
%RSD	1.389274	.8594860	127.1964
#1	.1283034	.2517725	.0070744
#2	.1281864	.2556501	-.001264
#3	.1313542	.2554588	.004174

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2261.711	25306.04	2285.423	1832.930	2685.327
Stddev	5.389	88.53	12.003	4.408	5.196
%RSD	.2382736	.3498399	.5252181	.2404637	.1934930
#1	2264.273	25336.67	2295.256	1834.911	2691.103
#2	2265.342	25375.19	2288.966	1835.998	2683.849
#3	2255.519	25206.26	2272.047	1827.879	2681.031

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4963-15DLX5 Acquired: 12/13/2024 19:31:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ13 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034744	.0269475	.1049582	-.041049	-.009224	2.875401	.0389193
Stddev	.0000496	.0033873	.0016790	.006684	.001741	.009149	.0014256
%RSD	1.427445	12.56984	1.599671	16.28196	18.86852	.3181686	3.662870
#1	.0035223	.0264787	.1058100	-.043746	-.009318	2.885180	.0405400
#2	.0034775	.0305447	.1060405	-.045962	-.007439	2.867051	.0378592
#3	.0034233	.0238191	.1030241	-.033438	-.010916	2.873971	.0383589

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005890	.0011852	495.0452	.0114012	.0373177	.0213664	14.74859
Stddev	.0001220	.0000206	1.2432	.0002182	.0003882	.0037644	.03619
%RSD	20.70651	1.737815	.2511381	1.913782	1.040332	17.61811	.2453545
#1	.0004828	.0011945	495.6232	.0111508	.0372865	.0250410	14.77063
#2	.0005620	.0011616	493.6182	.0115503	.0369460	.0215399	14.76832
#3	.0007222	.0011994	495.8942	.0115026	.0377206	.0175183	14.70683

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.590097	128.3040	.0226092	-.000215	2.194295	.0173522	.2492075
Stddev	.007646	.4893	.0001184	.000645	.952187	.0063503	.0010702
%RSD	.4808698	.3813280	.5237715	300.8460	43.39378	36.59643	.4294593
#1	1.597093	128.7715	.0227426	-.000829	2.187181	.0114574	.2489045
#2	1.581934	127.7955	.0225166	.000458	1.245684	.0240764	.2483214
#3	1.591262	128.3450	.0225684	-.000273	3.150019	.0165227	.2503965

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.071302	.9914469	.0084547	.0000030	3.248296	1.598738	.0058417
Stddev	.172217	.0022510	.0003649	.0004723	.004028	.005796	.0010025
%RSD	241.5332	.2270384	4.315978	16020.17	.1239950	.3625157	17.16059
#1	.093440	.9940241	.0082008	.0002776	3.251748	1.605206	.0060558
#2	-.250129	.9898662	.0088729	-.000542	3.243871	1.594017	.0067199
#3	-.057216	.9904504	.0082904	.000274	3.249269	1.596990	.0047495

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4963-15DLX5 Acquired: 12/13/2024 19:31:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ13 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0429824	.2416267	-.029548
Stddev	.0020810	.0008025	.001864
%RSD	4.841482	.3321190	6.307677
#1	.0406174	.2420419	-.028186
#2	.0437969	.2407017	-.031672
#3	.0445330	.2421365	-.028787

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2273.087	25368.07	2269.647	1837.892	2829.981
Stddev	5.395	27.99	5.680	4.455	2.692
%RSD	.2373418	.1103527	.2502586	.2423777	.0951220
#1	2267.038	25377.86	2264.411	1833.832	2826.874
#2	2277.400	25336.50	2275.685	1837.188	2831.612
#3	2274.822	25389.86	2268.845	1842.657	2831.458

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4963-16DLX5 Acquired: 12/13/2024 19:35:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ13D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0051119	.0275918	.1095493	-.036493	-.010701	2.942455	.0406050
Stddev	.0036867	.0013609	.0015669	.002962	.001929	.005708	.0005856
%RSD	72.12067	4.932306	1.430296	8.116867	18.02961	.1939922	1.442199
#1	.0053939	.0287865	.1081653	-.038386	-.009084	2.937745	.0412127
#2	.0012922	.0261104	.1092320	-.033079	-.012837	2.940817	.0400443
#3	.0086494	.0278786	.1112505	-.038012	-.010182	2.948803	.0405580

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006112	.0012663	482.9478	.0120260	.0370874	.0183845	15.49595
Stddev	.0000075	.0000084	1.7627	.0004418	.0003006	.0016231	.04490
%RSD	1.226826	.6605769	.3649876	3.674082	.8103842	8.828599	.2897293
#1	.0006046	.0012659	482.4437	.0120383	.0367491	.0196136	15.49278
#2	.0006096	.0012581	481.4921	.0124616	.0373236	.0189953	15.45272
#3	.0006193	.0012748	484.9076	.0115782	.0371895	.0165446	15.54235

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.687527	133.5170	.0223098	-.000193	2.084692	.0096808	.2354661
Stddev	.008722	.1611	.0007662	.000363	.362744	.0036520	.0066931
%RSD	.5168255	.1206706	3.434376	188.5590	17.40035	37.72402	2.842493
#1	1.681622	133.3548	.0231938	.000190	2.330838	.0091950	.2315701
#2	1.683414	133.5193	.0219010	-.000236	2.255119	.0135513	.2431945
#3	1.697544	133.6770	.0218348	-.000532	1.668119	.0062960	.2316336

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.159448	1.037951	.0065228	-.000008	3.416672	1.617114	.0065970
Stddev	.216256	.002116	.0015729	.000331	.012652	.008830	.0011483
%RSD	135.6278	.2038764	24.11442	4147.543	.3702936	.5460625	17.40621
#1	-.404947	1.036874	.0048590	-.000256	3.409515	1.612217	.0058163
#2	-.076253	1.036589	.0067239	.000368	3.409222	1.611816	.0079155
#3	.002855	1.040388	.0079856	-.000136	3.431280	1.627308	.0060593

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4963-16DLX5 Acquired: 12/13/2024 19:35:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ13D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0470316	.2330255	-.035219
Stddev	.0014598	.0006457	.005367
%RSD	3.103928	.2771049	15.23833
#1	.0468505	.2325127	-.033629
#2	.0485736	.2328132	-.030827
#3	.0456708	.2337507	-.041201

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2276.535	25534.14	2294.826	1850.138	2832.951
Stddev	3.134	180.65	11.001	5.390	1.815
%RSD	.1376458	.7074663	.4793729	.2913146	.0640631
#1	2279.857	25328.46	2291.730	1845.793	2832.796
#2	2276.115	25667.08	2307.043	1856.169	2831.219
#3	2273.633	25606.86	2285.705	1848.452	2834.839

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4963-15LDLX25 Acquired: 12/13/2024 19:39:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ13L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004297	.0157790	.0245591	-.021048	-.005038	.6010737	.0085790
Stddev	.002498	.0022379	.0002619	.003193	.001046	.0089245	.0008503
%RSD	58.12452	14.18264	1.066560	15.16888	20.75461	1.484752	9.910929
#1	-.002642	.0175775	.0243555	-.017965	-.005334	.5917540	.0089025
#2	-.007170	.0164866	.0244673	-.020839	-.005903	.6095419	.0092201
#3	-.003079	.0132729	.0248546	-.024340	-.003876	.6019252	.0076145

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001563	.0002630	98.08697	.0024673	.0234567	.0068322	3.087528
Stddev	.0001321	.0000091	.23003	.0004561	.0005375	.0111010	.024135
%RSD	84.49880	3.475929	.2345147	18.48551	2.291505	162.4786	.7816949
#1	.0002953	.0002578	97.85990	.0029777	.0229052	.0021570	3.060071
#2	.0001411	.0002577	98.08116	.0023242	.0239790	.0195061	3.097123
#3	.0000325	.0002736	98.31985	.0020999	.0234859	-.001166	3.105390

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3348040	26.76774	.0025256	.0008685	2.101912	-.002524	.0432504
Stddev	.0023929	.12148	.0006365	.0010121	.423286	.007005	.0070608
%RSD	.7147288	.4538174	25.20217	116.5344	20.13816	277.5505	16.32542
#1	.3322376	26.77198	.0032478	.0009649	2.322453	.001550	.0438308
#2	.3352004	26.64420	.0020461	.0018289	1.613895	.001491	.0359173
#3	.3369740	26.88704	.0022831	-.000188	2.369388	-.010613	.0500031

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.692543	.1904711	-.008960	.0003341	.6294714	.2957973	-.000386
Stddev	.120057	.0018753	.001305	.0001661	.0010664	.0027497	.000584
%RSD	17.33568	.9845517	14.56408	49.69359	.1694150	.9295828	151.3269
#1	-.705695	.1898131	-.010393	.0005202	.6283921	.2948968	.000100
#2	-.805483	.1890134	-.008646	.0002810	.6305244	.2936107	-.000225
#3	-.566452	.1925867	-.007840	.0002012	.6294977	.2988843	-.001034

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4963-15LDLX25 Acquired: 12/13/2024 19:39:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ13L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0100721	.0472810	-.056852
Stddev	.0019772	.0002114	.004404
%RSD	19.63017	.4471493	7.746008
#1	.0115271	.0471135	-.061151
#2	.0078210	.0472110	-.052350
#3	.0108681	.0475186	-.057055

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2372.281	26292.24	2319.341	1938.832	3140.044
Stddev	3.988	44.45	13.799	1.913	4.080
%RSD	.1680929	.1690778	.5949574	.0986616	.1299465
#1	2376.006	26240.93	2325.351	1938.411	3140.989
#2	2368.075	26319.15	2329.117	1940.920	3135.574
#3	2372.763	26316.63	2303.557	1937.164	3143.569

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4963-17DLX5 Acquired: 12/13/2024 19:43:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ13S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0169255	.0498566	.1161436	-.001188	.0245514	3.717666	.8241113
Stddev	.0034180	.0012641	.0001489	.001444	.0014458	.014919	.0010759
%RSD	20.19449	2.535563	.1281594	121.5772	5.888735	.4012886	.1305480
#1	.0190115	.0513024	.1159718	-.000146	.0254166	3.709153	.8250449
#2	.0129809	.0493076	.1162330	-.002836	.0228824	3.708952	.8229347
#3	.0187841	.0489598	.1162260	-.000581	.0253554	3.734892	.8243544

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0194565	.0205690	490.1704	.0930831	.2210525	.1124259	15.43351
Stddev	.0001026	.0000803	1.1619	.0008433	.0004267	.0073593	.03913
%RSD	.5272502	.3903190	.2370355	.9060222	.1930270	6.545908	.2535256
#1	.0193483	.0206479	490.0770	.0928599	.2212446	.1193434	15.45623
#2	.0195523	.0205715	489.0580	.0923737	.2205635	.1132415	15.38833
#3	.0194688	.0204874	491.3762	.0940155	.2213493	.1046927	15.45596

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.832809	129.2072	.2157630	.0162019	1.932834	.2151162	.4037676
Stddev	.000656	.4999	.0004908	.0015203	.332710	.0048058	.0068697
%RSD	.0357887	.3869042	.2274675	9.383517	17.21360	2.234056	1.701399
#1	1.832279	128.9591	.2160499	.0152456	2.303693	.2150729	.3962136
#2	1.832607	128.8799	.2151963	.0179550	1.660549	.2103322	.4096410
#3	1.833543	129.7826	.2160429	.0154052	1.834260	.2199435	.4054483

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.143313	1.017307	.0066111	.0002041	3.342581	1.621035	.0065410
Stddev	.138645	.001121	.0005828	.0004183	.007606	.003755	.0011667
%RSD	96.74309	.1102307	8.815499	204.9799	.2275588	.2316170	17.83727
#1	-.281311	1.016195	.0072725	-.000242	3.335160	1.617057	.0053465
#2	-.004030	1.018437	.0061731	.000588	3.350360	1.621531	.0065987
#3	-.144597	1.017289	.0063876	.000266	3.342224	1.624516	.0076778

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4963-17DLX5 Acquired: 12/13/2024 19:43:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ13S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0423903	.2359521	-.031452
Stddev	.0021073	.0003411	.004381
%RSD	4.971088	.1445656	13.92787
#1	.0442532	.2363184	-.030220
#2	.0401032	.2356436	-.036317
#3	.0428144	.2358941	-.027819

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2268.521	25542.53	2303.796	1856.118	2829.464
Stddev	3.032	65.63	6.325	14.609	9.691
%RSD	.1336687	.2569394	.2745498	.7870466	.3425139
#1	2271.775	25546.22	2309.870	1871.785	2838.719
#2	2268.014	25606.23	2304.271	1853.697	2830.284
#3	2265.774	25475.13	2297.246	1842.871	2819.389

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4964-01DLX2 Acquired: 12/13/2024 19:47:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0226369	.0316831	.6027189	-.033277	-.004691	10.91653	.1524912
Stddev	.0010649	.0020487	.0032374	.002270	.001071	.02767	.0007861
%RSD	4.704068	6.466395	.5371365	6.821886	22.83790	.2534734	.5155331
#1	.0235719	.0340002	.5991011	-.033471	-.004371	10.88528	.1526003
#2	.0214778	.0301113	.6053430	-.030917	-.003816	10.93791	.1516563
#3	.0228609	.0309379	.6037125	-.035445	-.005886	10.92641	.1532172

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012549	.0042416	681.2027	.0412859	.0505871	.1066841	49.03124
Stddev	.0001850	.0000094	1.0406	.0006470	.0007806	.0059953	.15834
%RSD	14.73989	.2207525	.1527605	1.567182	1.543038	5.619682	.3229395
#1	.0013841	.0042500	681.3418	.0420325	.0497821	.1098760	48.96269
#2	.0010430	.0042315	682.1668	.0408884	.0506384	.1104080	49.21230
#3	.0013376	.0042432	680.0996	.0409369	.0513407	.0997681	48.91872

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.580680	353.4035	.0757308	-.002038	2.407327	.0339611	.8615728
Stddev	.009209	.3877	.0002300	.000323	.386475	.0020693	.0086194
%RSD	.2010338	.1097136	.3036818	15.85152	16.05410	6.093049	1.000430
#1	4.589286	353.8293	.0756599	-.001668	2.261748	.0328613	.8531396
#2	4.581786	353.3105	.0759878	-.002183	2.845449	.0326739	.8703671
#3	4.570968	353.0708	.0755446	-.002263	2.114784	.0363480	.8612115

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.123896	2.396961	.0248227	.0012928	6.430820	4.318497	.0332007
Stddev	.157009	.006570	.0014347	.0006903	.012093	.008196	.0015961
%RSD	13.97003	.2741001	5.779903	53.39480	.1880412	.1897938	4.807332
#1	1.227494	2.404168	.0238192	.0017358	6.444490	4.327946	.0340418
#2	1.200947	2.395410	.0264660	.0016451	6.426446	4.313320	.0342003
#3	.943247	2.391305	.0241828	.0004974	6.421522	4.314223	.0313600

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4964-01DLX2 Acquired: 12/13/2024 19:47:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ01 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2071385	.2111039	-.010492
Stddev	.0055700	.0006586	.004705
%RSD	2.689038	.3119922	44.84159
#1	.2073434	.2118210	-.005067
#2	.2126033	.2109645	-.012963
#3	.2014689	.2105261	-.013448

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2248.937	25431.23	2295.267	1837.295	2697.886
Stddev	12.842	93.89	9.968	6.333	12.233
%RSD	.5710085	.3691798	.4342883	.3447171	.4534192
#1	2237.115	25344.48	2284.220	1838.004	2685.074
#2	2262.600	25418.28	2297.992	1830.637	2709.443
#3	2247.095	25530.91	2303.589	1843.245	2699.141

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4964-02DLX2 Acquired: 12/13/2024 19:51:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ01D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0220092	.0297708	.5958371	-.029756	-.005768	10.93413	.1501986
Stddev	.0011944	.0034040	.0020747	.001327	.001913	.02124	.0019393
%RSD	5.426720	11.43387	.3481984	4.460153	33.16682	.1942936	1.291157
#1	.0208522	.0322481	.5979986	-.031056	-.003568	10.91990	.1492263
#2	.0232377	.0258894	.5956511	-.028403	-.006691	10.92394	.1489377
#3	.0219377	.0311748	.5938617	-.029808	-.007044	10.95855	.1524317

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013969	.0043181	684.2450	.0417829	.0518376	.1047288	49.06340
Stddev	.0001680	.0001034	.4270	.0009177	.0002482	.0010848	.11142
%RSD	12.02953	2.395560	.0624100	2.196477	.4787224	1.035837	.2270952
#1	.0012417	.0044103	684.0063	.0413260	.0519030	.1039739	49.13222
#2	.0015753	.0043379	683.9907	.0411832	.0520465	.1059719	48.93485
#3	.0013737	.0042062	684.7380	.0428394	.0515633	.1042405	49.12313

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.614997	354.8665	.0741900	-.002243	2.190183	.0353639	.8753177
Stddev	.001695	1.4508	.0004572	.001594	.241935	.0084747	.0154434
%RSD	.0367187	.4088244	.6161922	71.07314	11.04635	23.96424	1.764321
#1	4.614662	353.3410	.0736652	-.003141	2.240257	.0289486	.8926124
#2	4.613494	355.0299	.0745015	-.000402	2.403163	.0321722	.8704344
#3	4.616833	356.2287	.0744034	-.003185	1.927129	.0449710	.8629062

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.147272	2.385508	.0266898	.0013543	6.319231	4.332235	.0319256
Stddev	.082440	.004707	.0011285	.0002981	.019201	.030780	.0006623
%RSD	7.185782	.1973338	4.228075	22.00855	.3038553	.7104788	2.074567
#1	1.148319	2.383887	.0259716	.0012529	6.322888	4.306246	.0312100
#2	1.064313	2.381826	.0279905	.0016899	6.336340	4.324234	.0320499
#3	1.229184	2.390812	.0261072	.0011202	6.298464	4.366225	.0325170

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4964-02DLX2 Acquired: 12/13/2024 19:51:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ01D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2081983	.2119817	-.010710
Stddev	.0032868	.0006242	.000528
%RSD	1.578678	.2944729	4.931314
#1	.2104226	.2125716	-.010319
#2	.2097494	.2120456	-.010500
#3	.2044231	.2113280	-.011310

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2221.909	25025.40	2293.403	1810.487	2665.472
Stddev	1.048	53.08	19.583	2.098	.468
%RSD	.0471659	.2120915	.8538936	.1158684	.0175413
#1	2222.614	25083.53	2316.016	1808.803	2664.933
#2	2222.408	25013.14	2282.110	1809.822	2665.724
#3	2220.704	24979.52	2282.084	1812.837	2665.760

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4964-01LDLX10 Acquired: 12/13/2024 19:55:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ01L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041982	.0181531	.1249667	-.024491	-.006645	2.403034	.0308877
Stddev	.0026691	.0005882	.0013227	.000232	.002690	.027481	.0000708
%RSD	63.57714	3.240319	1.058456	.9483665	40.49016	1.143595	.2292514
#1	.0069481	.0183102	.1238626	-.024733	-.007946	2.409324	.0308680
#2	.0040282	.0186469	.1264327	-.024471	-.008437	2.372953	.0309663
#3	.0016181	.0175023	.1246049	-.024270	-.003551	2.426824	.0308288

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003891	.0008295	138.9931	.0090364	.0286304	.0214376	10.29842
Stddev	.0000955	.0000272	.0446	.0004631	.0003618	.0047176	.05092
%RSD	24.52970	3.277597	.0320584	5.124768	1.263559	22.00608	.4944196
#1	.0004925	.0008155	139.0261	.0095111	.0282409	.0264398	10.24174
#2	.0003705	.0008608	139.0107	.0090122	.0289558	.0170686	10.34030
#3	.0003044	.0008121	138.9424	.0085858	.0286946	.0208045	10.31322

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9667554	74.59655	.0138005	.0004360	2.007759	.0035157	.1842017
Stddev	.0013613	.25929	.0003825	.0008521	.205509	.0045709	.0024637
%RSD	.1408120	.3475939	2.771758	195.4626	10.23573	130.0150	1.337494
#1	.9674872	74.62915	.0138666	-.000230	1.849275	.0048339	.1813978
#2	.9675944	74.83800	.0141456	.001396	1.934043	.0072827	.1860202
#3	.9651847	74.32250	.0133892	.000142	2.239958	-.001569	.1851871

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.480433	.4485009	-.005546	.0001507	1.195736	.8748828	.0059648
Stddev	.196661	.0018891	.002811	.0006091	.003875	.0066135	.0009787
%RSD	40.93418	.4211957	50.69107	404.1060	.3240623	.7559312	16.40849
#1	-.453663	.4464711	-.005644	.0008533	1.195919	.8779289	.0050524
#2	-.689108	.4502075	-.008306	-.000229	1.191772	.8794243	.0058434
#3	-.298528	.4488240	-.002687	-.000172	1.199516	.8672951	.0069985

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4964-01LDLX10 Acquired: 12/13/2024 19:55:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ01L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0372744	.0426759	-.051109
Stddev	.0023996	.0003361	.003458
%RSD	6.437553	.7874347	6.765272
#1	.0345145	.0423718	-.050824
#2	.0384423	.0430367	-.054700
#3	.0388664	.0426193	-.047802

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2324.373	25845.36	2280.681	1883.518	3026.974
Stddev	9.202	96.07	1.790	3.322	16.730
%RSD	.3958741	.3717235	.0784669	.1763714	.5526871
#1	2334.983	25910.01	2280.355	1883.570	3046.287
#2	2318.577	25891.10	2279.077	1886.813	3017.682
#3	2319.559	25734.96	2282.611	1880.170	3016.953

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4964-03DLX2 Acquired: 12/13/2024 19:59:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ01S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0581235	.0785634	.5891546	.0459776	.0757085	12.30310	2.036751
Stddev	.0019893	.0027990	.0032315	.0038163	.0020352	.05996	.003475
%RSD	3.422600	3.562781	.5484979	8.300364	2.688201	.4873265	.1706031
#1	.0560233	.0791422	.5920686	.0464531	.0778130	12.28983	2.033209
#2	.0583676	.0755202	.5897160	.0419458	.0755620	12.25088	2.040154
#3	.0599794	.0810277	.5856792	.0495339	.0737506	12.36857	2.036889

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0470102	.0501426	655.0649	.2334308	.4977060	.3293112	48.22824
Stddev	.0001938	.0001741	1.5027	.0018540	.0007070	.0092695	.10688
%RSD	.4122407	.3472853	.2294016	.7942191	.1420513	2.814798	.2216181
#1	.0471806	.0503437	654.3444	.2313287	.4983927	.3363839	48.29118
#2	.0467994	.0500451	654.0581	.2348325	.4969803	.3327322	48.10483
#3	.0470506	.0500392	656.7922	.2341313	.4977452	.3188175	48.28871

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.906677	344.1370	.5333555	.0368215	2.165173	.5209202	1.242781
Stddev	.010118	.9700	.0021713	.0018295	.284355	.0043605	.006736
%RSD	.2062104	.2818674	.4071065	4.968570	13.13312	.8370809	.5419736
#1	4.901756	343.1329	.5352681	.0381539	2.098136	.5159301	1.235087
#2	4.918314	345.0688	.5309952	.0375750	2.477057	.5239974	1.247612
#3	4.899961	344.2092	.5338031	.0347356	1.920327	.5228329	1.245645

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.146088	2.274049	.0263999	.0011490	6.055385	4.212473	.0317710
Stddev	.169728	.008336	.0012137	.0003099	.018326	.016201	.0014799
%RSD	14.80929	.3665627	4.597458	26.97041	.3026419	.3845983	4.658159
#1	.950177	2.270324	.0253576	.0014290	6.062879	4.196194	.0316651
#2	1.248678	2.268225	.0277324	.0012021	6.034500	4.212632	.0303468
#3	1.239409	2.283597	.0261095	.0008160	6.068778	4.228595	.0333010

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4964-03DLX2 Acquired: 12/13/2024 19:59:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ01S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1979373	.2034736	-.014086
Stddev	.0013897	.0007161	.004497
%RSD	.7021069	.3519375	31.92250
#1	.1975199	.2026477	-.014039
#2	.1994879	.2039203	-.018605
#3	.1968041	.2038530	-.009613

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2241.936	25086.02	2257.116	1808.565	2696.747
Stddev	2.278	115.82	9.257	7.118	.535
%RSD	.1016029	.4617011	.4101304	.3935845	.0198311
#1	2239.487	25133.46	2262.681	1813.908	2696.581
#2	2242.329	24954.01	2246.430	1800.484	2697.345
#3	2243.992	25170.60	2262.237	1811.302	2696.315

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4981-18DLX2 Acquired: 12/13/2024 20:02:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJC9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0581189	.0303807	.6111516	-.026435	.0045205	31.65049	.3722231
Stddev	.0033106	.0036766	.0017436	.002978	.0005767	.15653	.0013158
%RSD	5.696229	12.10181	.2852970	11.26578	12.75783	.4945729	.3535101
#1	.0614716	.0329377	.6118441	-.026640	.0038591	31.75228	.3737320
#2	.0580331	.0261673	.6091682	-.023360	.0049182	31.47024	.3713142
#3	.0548520	.0320372	.6124426	-.029306	.0047842	31.72894	.3716230

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026934	.0023139	665.6156	.0503340	.0761859	.2331718	82.12875
Stddev	.0000836	.0000927	1.6738	.0012714	.0007457	.0053691	.31389
%RSD	3.104940	4.004564	.2514617	2.525903	.9787493	2.302646	.3821932
#1	.0025995	.0023665	666.5310	.0498923	.0757125	.2338263	82.36648
#2	.0027206	.0022070	663.6838	.0493425	.0770454	.2275054	81.77294
#3	.0027600	.0023684	666.6320	.0517674	.0757997	.2381837	82.24683

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.469374	17.14628	.0886353	-.005475	2.426940	.0724064	.4085072
Stddev	.052378	.07939	.0003671	.001938	.467064	.0103015	.0045438
%RSD	.7012311	.4629881	.4141235	35.39360	19.24498	14.22726	1.112294
#1	7.521894	17.18198	.0883628	-.003263	2.249264	.0824455	.4091933
#2	7.417140	17.05532	.0884904	-.006874	2.074788	.0618613	.4036593
#3	7.469089	17.20155	.0890527	-.006287	2.956769	.0729124	.4126689

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.752048	3.742567	-.015260	.0002532	.7000786	5.052001	.0191673
Stddev	.080468	.002743	.001313	.0005703	.0024082	.014589	.0007202
%RSD	4.592792	.0732836	8.607573	225.2547	.3439880	.2887721	3.757515
#1	1.843059	3.739565	-.015169	.0002591	.6977616	5.064867	.0195550
#2	1.690333	3.743191	-.016616	.0008205	.7025687	5.036151	.0196106
#3	1.722751	3.744943	-.013994	-.000320	.6999056	5.054987	.0183363

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4981-18DLX2 Acquired: 12/13/2024 20:02:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJC9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5130033	.3272235	.0110299
Stddev	.0018404	.0022893	.0041700
%RSD	.3587540	.6996174	37.80670
#1	.5144740	.3298323	.0063541
#2	.5109394	.3255497	.0123716
#3	.5135965	.3262884	.0143638

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2441.698	27240.42	2446.310	1986.965	2846.623
Stddev	5.068	122.61	20.777	7.383	3.501
%RSD	.2075781	.4500878	.8493242	.3715819	.1229872
#1	2447.147	27141.43	2426.700	1985.212	2848.674
#2	2437.124	27377.57	2468.085	1995.067	2842.581
#3	2440.824	27202.27	2444.144	1980.616	2848.615

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: CCV011 Acquired: 12/13/2024 20:18:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV011 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.908504	5.112342	24.03322	4.609253	4.665589	381.4792	9.787875
Stddev	.018254	.019369	.02714	.002123	.003164	.8908	.017535
%RSD	.3718913	.3788659	.1129188	.0460601	.0678193	.2335035	.1791516
#1	4.919868	5.092723	24.01254	4.611156	4.665814	382.2282	9.805943
#2	4.887448	5.112851	24.02317	4.606963	4.668634	380.4942	9.770926
#3	4.918196	5.131451	24.06395	4.609638	4.662318	381.7151	9.786756

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4759743	2.391332	399.7188	14.70730	2.315198	14.87597	397.3262
Stddev	.0019928	.003263	1.5074	.01651	.002806	.04635	.6052
%RSD	.4186709	.1364597	.3771069	.1122557	.1212130	.3115889	.1523129
#1	.4781511	2.388586	401.1223	14.68915	2.315231	14.89917	397.8387
#2	.4742399	2.390469	398.1255	14.72143	2.312375	14.90615	396.6585
#3	.4755319	2.394939	399.9084	14.71130	2.317988	14.82260	397.4814

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.85864	375.5719	2.397192	1.245195	382.8645	2.461885	13.90497
Stddev	.02436	.8271	.001503	.002788	1.2669	.021702	.02142
%RSD	.1639449	.2202163	.0626828	.2238770	.3308954	.8815238	.1540225
#1	14.88666	376.3902	2.398103	1.248395	384.1744	2.486870	13.88325
#2	14.84251	375.5890	2.395458	1.243896	381.6455	2.451067	13.92607
#3	14.84675	374.7364	2.398016	1.243294	382.7736	2.447719	13.90559

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	141.8349	4.759158	4.610747	4.718699	4.699283	4.860634	4.851417
Stddev	.1792	.004645	.020982	.006201	.000937	.017417	.012785
%RSD	.1263149	.0975941	.4550600	.1314063	.0199391	.3583311	.2635270
#1	141.6669	4.762622	4.634113	4.711688	4.699218	4.880241	4.838754
#2	142.0235	4.760973	4.593519	4.720948	4.698380	4.846953	4.851176
#3	141.8145	4.753880	4.604609	4.723462	4.700251	4.854708	4.864320

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: CCV011 Acquired: 12/13/2024 20:18:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV011 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	5.013200	4.633148	5.011566
Stddev	.019242	.005675	.016347
%RSD	.3838337	.1224782	.3261939
#1	5.035041	4.633890	5.016455
#2	5.005812	4.638415	5.024912
#3	4.998746	4.627139	4.993332

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1938.405	23756.94	2219.564	1635.543	2577.787
Stddev	5.044	41.51	12.561	8.820	5.659
%RSD	.2602211	.1747469	.5659323	.5392645	.2195194
#1	1942.497	23714.29	2206.399	1627.192	2583.093
#2	1932.770	23797.22	2231.418	1644.767	2571.832
#3	1939.949	23759.31	2220.876	1634.671	2578.437

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: CCB011 Acquired: 12/13/2024 20:22:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB011 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001671	.0014657	.0018487	-.003443	.0026161	.0310385
Stddev	.002121	.0009624	.0014253	.001598	.0024460	.0268846
%RSD	126.8986	65.65914	77.09988	46.42363	93.49896	86.61704
#1	.000224	.0025482	.0032115	-.001615	.0024638	.0258255
#2	-.003962	.0011419	.0019664	-.004576	.0051347	.0071421
#3	-.001275	.0007070	.0003681	-.004139	.0002498	.0601478

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001991	.0000092	.0000495	.0461033	.0006013	.0001213
Stddev	.0006033	.0000222	.0000307	.0204604	.0001152	.0002023
%RSD	302.9556	241.6462	62.09016	44.37942	19.15861	166.8349
#1	.0003992	.0000340	.0000843	.0250446	.0004740	.0002066
#2	-.000479	.0000025	.0000381	.0659076	.0006983	-.000110
#3	.000677	-.000009	.0000261	.0473576	.0006316	.000267

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027508	.0131517	.0002392	.0213702	.0001580	.0009152
Stddev	.0032379	.0086194	.0026461	.0282215	.0001365	.0005509
%RSD	117.7091	65.53874	1106.433	132.0605	86.38916	60.19813
#1	.0050729	.0079231	-.002122	.0034479	.0002268	.0014978
#2	.0041275	.0231002	.003099	.0067612	.0002463	.0004027
#3	-.000948	.0084317	-.000260	.0539014	.0000008	.0008449

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.027457	.0013434	.0072357	-.241431	-.003431	.0036178
Stddev	.392853	.0138035	.0048497	.145450	.001257	.0021190
%RSD	19.37666	1027.474	67.02555	60.24504	36.62988	58.57151
#1	2.341447	-.011096	.0017147	-.294578	-.002132	.0060589
#2	1.586928	-.001068	.0108080	-.352833	-.003519	.0022536
#3	2.153997	.016194	.0091843	-.076882	-.004641	.0025408

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: CCB011 Acquired: 12/13/2024 20:22:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB011 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002930	-.006241	-.037488	-.000567	-.005453	.0000704
Stddev	.0001731	.004568	.000795	.000863	.001822	.0001176
%RSD	59.07987	73.19140	2.121740	152.1787	33.40624	167.1381
#1	.0004768	-.007615	-.037137	-.000716	-.007178	-.000000
#2	.0002694	-.001144	-.036928	.000361	-.003548	.000005
#3	.0001330	-.009966	-.038398	-.001347	-.005634	.000206

Elem	Li6707
Units	ppm
Avg	F -.049861
Stddev	.002265
%RSD	4.543075
#1	-.049060
#2	-.048105
#3	-.052418

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2378.814	26267.42	2285.151	1943.987	3272.267
Stddev	3.098	31.86	7.661	3.947	6.830
%RSD	.1302162	.1213014	.3352362	.2030555	.2087330
#1	2376.403	26232.78	2293.645	1939.431	3264.555
#2	2382.308	26274.02	2278.766	1946.393	3277.552
#3	2377.731	26295.47	2283.041	1946.136	3274.695

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4981-19DLX2 Acquired: 12/13/2024 20:26:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJC9D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0589794	.0320947	.6251908	-.026746	.0052992	32.06965	.3755203
Stddev	.0039261	.0021011	.0032554	.006085	.0004332	.03666	.0014299
%RSD	6.656786	6.546660	.5206970	22.75058	8.173947	.1143087	.3807813
#1	.0607914	.0297297	.6219428	-.031959	.0048492	32.10653	.3770829
#2	.0544745	.0328088	.6251762	-.020060	.0057132	32.03321	.3742770
#3	.0616722	.0337458	.6284535	-.028218	.0053353	32.06921	.3752010

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027118	.0022759	624.0221	.0508164	.0742169	.2272817	82.86787
Stddev	.0001146	.0000886	.9894	.0011406	.0005232	.0017795	.27818
%RSD	4.225132	3.891002	.1585506	2.244507	.7050246	.7829687	.3356938
#1	.0027698	.0022205	625.0266	.0521033	.0736507	.2283744	83.18463
#2	.0025798	.0022292	623.0485	.0504156	.0743175	.2252283	82.66331
#3	.0027856	.0023780	623.9910	.0499303	.0746826	.2282425	82.75567

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.309675	17.16119	.0857589	-.003873	2.064236	.0695906	.4037063
Stddev	.023684	.07002	.0009549	.001067	.079390	.0012111	.0009316
%RSD	.3240101	.4080394	1.113479	27.55553	3.845992	1.740280	.2307528
#1	7.336980	17.23067	.0862173	-.003328	1.973001	.0688938	.4030930
#2	7.294707	17.09063	.0863981	-.005103	2.102108	.0709890	.4032476
#3	7.297336	17.16228	.0846612	-.003189	2.117598	.0688890	.4047782

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.703414	3.699177	-.010100	.0002568	.6764051	5.029802	.0222770
Stddev	.105052	.012498	.002886	.0003691	.0088144	.022334	.0014372
%RSD	6.167157	.3378646	28.57801	143.7145	1.303118	.4440349	6.451273
#1	1.598419	3.686926	-.013380	.0004343	.6816520	5.055394	.0233263
#2	1.703300	3.698696	-.007951	.0005036	.6662288	5.014247	.0206390
#3	1.808524	3.711909	-.008967	-.000167	.6813345	5.019767	.0228657

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4981-19DLX2 Acquired: 12/13/2024 20:26:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJC9D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5240640	.2976681	.0230400
Stddev	.0024452	.0014325	.0050380
%RSD	.4665767	.4812325	21.86633
#1	.5256869	.2993069	.0178149
#2	.5252535	.2970430	.0278674
#3	.5212517	.2966544	.0234379

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2431.339	27065.73	2446.802	1969.184	2869.180
Stddev	4.876	94.48	11.134	5.499	6.452
%RSD	.2005398	.3490797	.4550494	.2792462	.2248690
#1	2434.537	27023.27	2434.565	1966.002	2875.085
#2	2433.752	27173.99	2456.336	1975.533	2870.161
#3	2425.727	26999.93	2449.504	1966.016	2862.293

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4981-18LDLX10 Acquired: 12/13/2024 20:30:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJC9L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0100434	.0190580	.1344137	-.025707	-.003982	7.298161	.0828227
Stddev	.0024551	.0011617	.0009630	.003447	.003406	.029410	.0006935
%RSD	24.44517	6.095590	.7164724	13.40707	85.51816	.4029770	.8373702
#1	.0125272	.0178283	.1348311	-.021736	-.001503	7.327899	.0821438
#2	.0076180	.0201370	.1350975	-.027465	-.007865	7.269090	.0827942
#3	.0099850	.0192087	.1333123	-.027921	-.002578	7.297493	.0835300

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005921	.0004692	148.6724	.0111738	.0335690	.0512599	18.73989
Stddev	.0001195	.0001001	.4817	.0001080	.0004681	.0038581	.13158
%RSD	20.18961	21.34692	.3240224	.9668476	1.394410	7.526467	.7021647
#1	.0004574	.0005637	148.8830	.0110560	.0334139	.0553058	18.87788
#2	.0006334	.0003642	148.1212	.0112682	.0331981	.0508518	18.61581
#3	.0006855	.0004796	149.0129	.0111974	.0340949	.0476221	18.72599

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.713703	4.002830	.0169831	.0001056	2.083733	.0150440	.1001566
Stddev	.006475	.026182	.0004545	.0002530	.585970	.0028245	.0045146
%RSD	.3778628	.6540977	2.676177	239.6026	28.12114	18.77526	4.507558
#1	1.719905	3.979829	.0174858	.0001520	2.235338	.0132461	.0981061
#2	1.706985	3.997338	.0166012	-.000167	2.579003	.0135862	.0970311
#3	1.714220	4.031323	.0168625	.000332	1.436860	.0182996	.1053326

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.227693	.7376693	-.007285	.0003197	.1456091	1.129196	.0042271
Stddev	.055634	.0039210	.000667	.0004586	.0055662	.009818	.0010216
%RSD	24.43398	.5315445	9.152209	143.4312	3.822699	.8694379	24.16835
#1	-.197349	.7332189	-.006901	-.000133	.1429166	1.133128	.0049432
#2	-.193827	.7391730	-.008055	.000784	.1419010	1.118022	.0030572
#3	-.291902	.7406159	-.006899	.000308	.1520095	1.136438	.0046811

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4981-18LDLX10 Acquired: 12/13/2024 20:30:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJC9L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1114821	.0727773	-.036605
Stddev	.0008584	.0002475	.002491
%RSD	.7699476	.3401091	6.804346
#1	.1114831	.0728087	-.036892
#2	.1123399	.0730077	-.038940
#3	.1106232	.0725156	-.033984

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2379.819	26304.30	2304.592	1928.487	3129.482
Stddev	2.190	93.78	10.520	10.410	3.404
%RSD	.0920059	.3565345	.4564966	.5397765	.1087755
#1	2377.381	26226.06	2293.422	1920.307	3127.547
#2	2380.456	26278.57	2314.313	1924.950	3133.412
#3	2381.619	26408.26	2306.040	1940.204	3127.486

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4981-20DLX2 Acquired: 12/13/2024 20:34:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJC9S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0952019	.0799991	.6496075	.0466351	.0822376	34.18339	2.195984
Stddev	.0015267	.0068027	.0089082	.0031568	.0012177	.15729	.006006
%RSD	1.603602	8.503515	1.371313	6.769245	1.480693	.4601240	.2734805
#1	.0935929	.0799084	.6484510	.0449233	.0809117	34.01805	2.189257
#2	.0953824	.0732422	.6413341	.0502781	.0833057	34.33114	2.197887
#3	.0966302	.0868467	.6590374	.0447038	.0824956	34.20098	2.200807

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0477613	.0489798	662.0436	.2400298	.5370634	.4517965	84.30833
Stddev	.0004576	.0004412	1.2991	.0006889	.0050592	.0043980	.10071
%RSD	.9580125	.9008399	.1962210	.2870153	.9420076	.9734352	.1194504
#1	.0476813	.0491282	660.9119	.2402500	.5386820	.4567346	84.23660
#2	.0473490	.0484835	663.4621	.2405817	.5313930	.4483012	84.26493
#3	.0482536	.0493277	661.7569	.2392577	.5411152	.4503536	84.42346

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.969789	17.33743	.5675041	.0317639	2.525344	.5436937	.8242033
Stddev	.007083	.10038	.0057964	.0007283	.455876	.0010663	.0048256
%RSD	.0888782	.5789930	1.021384	2.292984	18.05206	.1961165	.5854932
#1	7.961902	17.35127	.5706524	.0312275	2.875659	.5437366	.8186590
#2	7.971855	17.23085	.5608148	.0314713	2.690455	.5447379	.8264925
#3	7.975610	17.43018	.5710451	.0325931	2.009917	.5426067	.8274582

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.095025	3.791227	-.011600	.0002479	.6864539	5.161581	.0233214
Stddev	.138290	.033357	.001634	.0001230	.0071989	.008796	.0024545
%RSD	6.600864	.8798544	14.08494	49.61275	1.048711	.1704215	10.52482
#1	2.041641	3.797282	-.009786	.0001409	.6797315	5.151433	.0252032
#2	1.991385	3.755257	-.012056	.0002205	.6855804	5.166277	.0242158
#3	2.252050	3.821142	-.012957	.0003823	.6940497	5.167032	.0205450

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4981-20DLX2 Acquired: 12/13/2024 20:34:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJC9S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5227709	.3212948	.0188515
Stddev	.0076423	.0012744	.0036588
%RSD	1.461887	.3966437	19.40880
#1	.5314628	.3206989	.0222358
#2	.5197449	.3204276	.0193494
#3	.5171048	.3227580	.0149691

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2405.750	26816.87	2436.266	1957.970	2813.608
Stddev	15.173	143.68	1.204	9.506	21.889
%RSD	.6306923	.5357852	.0494230	.4854968	.7779525
#1	2393.714	26725.77	2434.954	1954.139	2800.310
#2	2422.794	26742.33	2436.520	1950.978	2838.871
#3	2400.744	26982.50	2437.322	1968.794	2801.644

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4932-01 Acquired: 12/13/2024 20:38:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1249109	.0191269	2.646540	-.000022	.0271995	53.43232	1.253309
Stddev	.0015635	.0022962	.001026	.003482	.0009233	.07090	.000775
%RSD	1.251673	12.00510	.0387775	15816.46	3.394350	.1326827	.0618056
#1	.1243878	.0196389	2.646857	-.004038	.0261659	53.36605	1.252725
#2	.1266689	.0211239	2.645393	.001817	.0279422	53.42383	1.254188
#3	.1236761	.0166179	2.647371	.002155	.0274906	53.50708	1.253013

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049441	.0119347	111.1084	.1447291	.0907716	.6550821	137.4355
Stddev	.0000251	.0000851	.2845	.0003451	.0001784	.0079793	.4440
%RSD	.5072202	.7133567	.2560826	.2384417	.1965307	1.218066	.3230406
#1	.0049311	.0118620	110.7972	.1450031	.0909771	.6458983	136.9358
#2	.0049730	.0119139	111.3553	.1448426	.0906803	.6590309	137.5862
#3	.0049282	.0120284	111.1726	.1443415	.0906573	.6603171	137.7844

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.622539	35.40996	.1621009	-.006286	1.829190	.1411558	2.193997
Stddev	.016790	.19851	.0001964	.000914	.143902	.0093276	.004207
%RSD	.1744863	.5606012	.1211763	14.53874	7.866961	6.608054	.1917432
#1	9.610313	35.18959	.1620443	-.005300	1.941814	.1450752	2.190313
#2	9.615622	35.46554	.1623194	-.006455	1.667074	.1478842	2.193097
#3	9.641683	35.57476	.1619390	-.007104	1.878682	.1305080	2.198581

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.679201	8.629996	-.004323	.0039913	2.299415	9.724100	.1633025
Stddev	.227605	.011921	.002596	.0002753	.009894	.075779	.0012859
%RSD	4.007689	.1381337	60.04513	6.896922	.4302788	.7792952	.7874206
#1	5.588885	8.624572	-.001376	.0042328	2.291470	9.680928	.1631816
#2	5.938102	8.621752	-.005322	.0040494	2.296279	9.679772	.1620814
#3	5.510615	8.643664	-.006271	.0036916	2.310497	9.811600	.1646446

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4932-01 Acquired: 12/13/2024 20:38:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.9618748	.0727025	.0299660
Stddev	.0036975	.0003860	.0014406
%RSD	.3844088	.5309423	4.807531
#1	.9658460	.0729273	.0289160
#2	.9585313	.0722568	.0293736
#3	.9612472	.0729233	.0316084

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2650.902	29650.04	2600.613	2176.119	3026.654
Stddev	6.535	72.74	8.191	2.850	5.400
%RSD	.2465131	.2453361	.3149696	.1309844	.1784038
#1	2647.567	29582.77	2597.494	2173.108	3021.408
#2	2646.707	29640.12	2609.905	2176.475	3026.360
#3	2658.431	29727.24	2594.439	2178.775	3032.195

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4932-05 Acquired: 12/13/2024 20:42:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2002645	.0252606	9.197859	.0054056	.0626945	67.53190
Stddev	.0034293	.0027053	.012501	.0030530	.0012594	.28685
%RSD	1.712373	10.70951	.1359100	56.47927	2.008791	.4247574
#1	.1979051	.0276404	9.196913	.0025865	.0612492	67.28123
#2	.2041982	.0258233	9.185858	.0049818	.0632779	67.46973
#3	.1986901	.0223183	9.210806	.0086483	.0635563	67.84473

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.721563	.0080394	.0316459	193.7562	.2014757	.1201709
Stddev	.018371	.0001856	.0001575	.6154	.0009876	.0003106
%RSD	.4936417	2.308148	.4975399	.3176366	.4902011	.2584604
#1	3.704346	.0078841	.0317506	193.5241	.2005127	.1198751
#2	3.719440	.0082449	.0317223	193.2906	.2014282	.1201433
#3	3.740904	.0079890	.0314648	194.4539	.2024863	.1204944

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.43620	234.9364	11.94899	36.75046	.2737544	-.011327
Stddev	.07283	1.4619	.06702	.11650	.0006072	.000457
%RSD	.6978357	.6222705	.5608684	.3169944	.2218149	4.034450
#1	10.36480	233.7624	11.90169	36.63376	.2743092	-.010818
#2	10.43343	234.4730	11.91959	36.75087	.2738484	-.011701
#3	10.51038	236.5740	12.02568	36.86675	.2731057	-.011462

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.750979	.1940661	8.244426	6.348203	F 14.50154	-.019504
Stddev	.192938	.0067136	.084045	.099937	.00870	.005562
%RSD	7.013428	3.459452	1.019420	1.574261	.0599723	28.51623
#1	2.549748	.1927541	8.340950	6.249301	14.51067	-.015974
#2	2.934388	.1881053	8.204878	6.346163	14.49336	-.016623
#3	2.768801	.2013389	8.187449	6.449145	14.50058	-.025915

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4932-05 Acquired: 12/13/2024 20:42:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0081271	3.494196	9.615300	.4062307	1.292163	.3441224
Stddev	.0001079	.006089	.125156	.0011296	.000328	.0016904
%RSD	1.327390	.1742683	1.301633	.2780622	.0254210	.4912299
#1	.0080026	3.496277	9.494452	.4052994	1.291927	.3422844
#2	.0081935	3.487339	9.607090	.4074872	1.292025	.3444724
#3	.0081852	3.498971	9.744359	.4059054	1.292538	.3456105

Elem	Li6707
Units	ppm
Avg	.0582177
Stddev	.0003219
%RSD	.5529159
#1	.0583531
#2	.0584497
#3	.0578502

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2655.453	29822.36	2653.177	2180.804	2965.868
Stddev	3.863	45.50	29.997	10.429	6.773
%RSD	.1454765	.1525693	1.130612	.4782284	.2283795
#1	2657.629	29845.84	2683.542	2172.565	2964.924
#2	2657.736	29769.92	2652.425	2177.316	2973.064
#3	2650.993	29851.32	2623.562	2192.530	2959.617

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4932-06 Acquired: 12/13/2024 20:45:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2349909	.0164470	13.51971	.0084745	.0822043	75.85185
Stddev	.0058318	.0026011	.01504	.0023548	.0024733	.17541
%RSD	2.481694	15.81503	.1112799	27.78717	3.008698	.2312544
#1	.2360091	.0194499	13.52393	.0111438	.0847061	75.76579
#2	.2287171	.0148943	13.50300	.0075887	.0821462	76.05367
#3	.2402465	.0149968	13.53219	.0066910	.0797606	75.73610

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.364968	.0092283	.0292181	166.8177	.2717430	.1036128
Stddev	.014124	.0001871	.0001970	.2999	.0012552	.0002964
%RSD	.2219083	2.027177	.6742877	.1797787	.4619075	.2860276
#1	6.367239	.0094430	.0293460	166.5035	.2731003	.1039041
#2	6.377820	.0091417	.0289912	167.1009	.2706242	.1036227
#3	6.349846	.0091002	.0293171	166.8488	.2715045	.1033117

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.12503	229.8344	10.18976	24.95107	.2558308	-.007353
Stddev	.03656	.6824	.03532	.11400	.0004773	.000920
%RSD	.3015253	.2968928	.3466408	.4568799	.1865492	12.51137
#1	12.15962	229.7609	10.21068	24.97514	.2555679	-.008116
#2	12.12870	230.5506	10.20962	25.05112	.2555428	-.007610
#3	12.08678	229.1918	10.14898	24.82697	.2563817	-.006331

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.040644	.2490325	11.17299	6.903488	F 15.03392	.0201014
Stddev	.445266	.0058615	.07980	.107046	.03750	.0004651
%RSD	11.01967	2.353717	.7142237	1.550607	.2494109	2.313543
#1	4.454317	.2526118	11.20279	6.875980	15.06194	.0199180
#2	3.569388	.2422680	11.23361	6.812881	14.99132	.0206301
#3	4.098226	.2522178	11.08258	7.021604	15.04850	.0197559

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4932-06 Acquired: 12/13/2024 20:45:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0102596	3.833949	9.875303	.5935735	1.325376	.6128023
Stddev	.0001599	.014283	.030347	.0013826	.001015	.0023317
%RSD	1.558619	.3725376	.3072993	.2329331	.0765908	.3805031
#1	.0104331	3.836735	9.843620	.5930191	1.324243	.6145658
#2	.0101180	3.818478	9.904109	.5925541	1.325682	.6136826
#3	.0102278	3.846634	9.878180	.5951473	1.326203	.6101586

Elem	Li6707
Units	ppm
Avg	.0627634
Stddev	.0012247
%RSD	1.951355
#1	.0639452
#2	.0628451
#3	.0614999

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2585.601	29026.29	2572.707	2118.400	3009.511
Stddev	10.794	26.19	6.925	5.314	12.583
%RSD	.4174693	.0902331	.2691808	.2508329	.4181061
#1	2573.460	28996.08	2580.110	2123.750	2995.028
#2	2589.231	29040.22	2571.624	2113.124	3017.759
#3	2594.112	29042.57	2566.388	2118.325	3015.745

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4932-07 Acquired: 12/13/2024 20:49:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0711214	.0234062	1.194141	-.010568	.0273783	73.72134	1.255658
Stddev	.0018235	.0008501	.004164	.002387	.0003735	.04463	.002138
%RSD	2.563987	3.631886	.3487211	22.58361	1.364186	.0605322	.1703061
#1	.0725531	.0224246	1.196010	-.007931	.0278071	73.69531	1.257048
#2	.0717427	.0239053	1.197044	-.011194	.0272036	73.77287	1.253196
#3	.0690684	.0238886	1.189370	-.012580	.0271242	73.69584	1.256730

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0072439	.0077687	427.7863	.1372068	.1032543	.2799589	180.5029
Stddev	.0000439	.0000939	.1984	.0013800	.0000733	.0071640	.4756
%RSD	.6059760	1.208026	.0463848	1.005774	.0710334	2.558953	.2635107
#1	.0072815	.0076608	427.9873	.1379375	.1031933	.2852542	180.8817
#2	.0071957	.0078143	427.7811	.1356151	.1033357	.2718073	179.9691
#3	.0072546	.0078311	427.5905	.1380678	.1032339	.2828152	180.6579

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.302308	128.9383	.2505462	-.013086	3.079226	.1745518	1.366541
Stddev	.025354	.1766	.0007887	.000230	.345454	.0091632	.015380
%RSD	.4023019	.1369425	.3147718	1.754170	11.21887	5.249561	1.125498
#1	6.330683	129.1381	.2510851	-.013258	3.062158	.1797620	1.370734
#2	6.281876	128.8033	.2509126	-.012825	2.742621	.1639714	1.379390
#3	6.294366	128.8734	.2496411	-.013174	3.432898	.1799219	1.349499

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.28183	9.834468	.0283221	.0084054	6.717846	11.92644	.0646236
Stddev	.28680	.013779	.0005266	.0002822	.006513	.07446	.0012737
%RSD	2.789401	.1401056	1.859393	3.357475	.0969458	.6242885	1.971034
#1	10.43531	9.832885	.0288461	.0084687	6.723369	11.99791	.0638623
#2	9.95095	9.848970	.0277929	.0080969	6.710664	11.84932	.0660941
#3	10.45923	9.821550	.0283273	.0086506	6.719505	11.93209	.0639145

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4932-07 Acquired: 12/13/2024 20:49:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.035600	.4016931	.0846711
Stddev	.007228	.0015391	.0028204
%RSD	.6979822	.3831540	3.330990
#1	1.041564	.4029308	.0854813
#2	1.027562	.3999698	.0815343
#3	1.037676	.4021789	.0869977

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2436.786	27222.24	2474.943	1995.323	2766.248
Stddev	5.324	126.20	23.817	8.699	9.987
%RSD	.2184682	.4635857	.9623276	.4359739	.3610279
#1	2430.641	27078.21	2447.662	1985.795	2754.939
#2	2439.997	27313.41	2491.592	1997.334	2769.949
#3	2439.720	27275.11	2485.576	2002.841	2773.856

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4932-08 Acquired: 12/13/2024 20:53:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1585066	.0241568	3.605015	.0137876	.0492717	82.78656
Stddev	.0028430	.0022424	.010447	.0027984	.0016121	.29457
%RSD	1.793631	9.282704	.2897815	20.29641	3.271822	.3558146
#1	.1605158	.0267460	3.615195	.0118804	.0488591	82.64135
#2	.1597504	.0228462	3.594321	.0170002	.0510499	82.59279
#3	.1552537	.0228781	3.605531	.0124823	.0479060	83.12554

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.450626	.0076141	.0144576	96.56410	.1702655	.1112616
Stddev	.008093	.0001190	.0000623	.39134	.0006728	.0001693
%RSD	.3302501	1.563218	.4308552	.4052601	.3951477	.1521315
#1	2.445988	.0077494	.0145159	96.44328	.1710037	.1114143
#2	2.445918	.0075672	.0143920	96.24742	.1701060	.1112908
#3	2.459971	.0075257	.0144650	97.00159	.1696868	.1110796

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.235955	230.1281	16.56107	21.11359	.2006689	-.011502
Stddev	.005366	.3897	.03669	.00755	.0012191	.000815
%RSD	.4341472	.1693391	.2215738	.0357794	.6075047	7.084232
#1	1.229759	230.2215	16.56683	21.10650	.2014372	-.010977
#2	1.239019	229.7002	16.52184	21.12154	.2013064	-.012440
#3	1.239087	230.4626	16.59455	21.11272	.1992633	-.011088

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.478495	.2050733	3.906096	4.429242	F 10.98349	-.051382
Stddev	.300169	.0011582	.025481	.130776	.01940	.001656
%RSD	12.11095	.5647821	.6523363	2.952563	.1765837	3.223796
#1	2.155640	.2055051	3.882062	4.439824	11.00587	-.053123
#2	2.530719	.2059535	3.903415	4.554406	10.97155	-.051199
#3	2.749126	.2037611	3.932812	4.293496	10.97305	-.049825

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4932-08 Acquired: 12/13/2024 20:53:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0070948	1.849176	10.14759	.1918495	1.497798	.2014326
Stddev	.0004543	.003756	.08051	.0007615	.009742	.0001885
%RSD	6.403723	.2031272	.7933731	.3969305	.6504283	.0935692
#1	.0065732	1.844847	10.23780	.1922755	1.509047	.2014461
#2	.0073065	1.851569	10.08305	.1909703	1.492091	.2012377
#3	.0074046	1.851112	10.12191	.1923027	1.492256	.2016139

Elem	Li6707
Units	ppm
Avg	.0486047
Stddev	.0047075
%RSD	9.685285
#1	.0527846
#2	.0435053
#3	.0495241

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2761.845	30760.79	2700.355	2260.666	3040.757
Stddev	16.645	68.85	13.964	7.663	17.218
%RSD	.6026646	.2238209	.5171270	.3389868	.5662367
#1	2743.047	30829.41	2684.763	2259.948	3020.882
#2	2767.780	30761.23	2711.711	2268.663	3050.267
#3	2774.709	30691.72	2704.591	2253.387	3051.123

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4932-09 Acquired: 12/13/2024 20:57:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0971305	.0116399	1.154118	.0111872	.0343641	72.88095	.9757674
Stddev	.0025780	.0017017	.002875	.0007959	.0013096	.23702	.0037331
%RSD	2.654169	14.61972	.2491408	7.114736	3.811001	.3252197	.3825793
#1	.0942455	.0106144	1.153766	.0104868	.0343536	72.66096	.9725528
#2	.0979376	.0107009	1.151435	.0120528	.0330598	73.13195	.9798618
#3	.0992084	.0136042	1.157153	.0110220	.0356790	72.84995	.9748878

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0060776	.0070514	39.87544	.1223268	.0978126	.3871247	165.8592
Stddev	.0000669	.0000368	.14697	.0003140	.0005321	.0007851	.1323
%RSD	1.101506	.5222801	.3685602	.2566447	.5440363	.2027964	.0797957
#1	.0060041	.0070094	39.74854	.1222969	.0984055	.3872220	165.7657
#2	.0061351	.0070668	40.03647	.1220289	.0973762	.3862956	166.0107
#3	.0060935	.0070780	39.84132	.1226547	.0976562	.3878567	165.8013

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.23146	19.25786	.1789534	-.009753	2.123898	.1721078	1.270947
Stddev	.03862	.08150	.0007590	.000373	.280231	.0029259	.004330
%RSD	.3438488	.4231809	.4241463	3.821878	13.19418	1.700032	.3407028
#1	11.18816	19.22142	.1794172	-.009351	2.254304	.1750253	1.268263
#2	11.26235	19.35122	.1780774	-.009819	1.802229	.1721244	1.268636
#3	11.24386	19.20095	.1793655	-.010088	2.315162	.1691736	1.275943

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.802268	7.201307	-.046762	.0053561	.7018358	8.548397	.0683508
Stddev	.008100	.010987	.001890	.0000846	.0019513	.044701	.0012660
%RSD	.2890382	.1525748	4.041387	1.579559	.2780232	.5229216	1.852175
#1	2.797206	7.190370	-.045098	.0053600	.6998748	8.497293	.0696001
#2	2.811609	7.201207	-.048817	.0054386	.7037772	8.567663	.0670688
#3	2.797987	7.212344	-.046372	.0052696	.7018555	8.580235	.0683834

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4932-09 Acquired: 12/13/2024 20:57:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.384623	.0243564	.0320105
Stddev	.006072	.0003616	.0022566
%RSD	.4385644	1.484633	7.049636
#1	1.378242	.0240132	.0313455
#2	1.385298	.0247340	.0301612
#3	1.390330	.0243221	.0345250

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2949.740	32611.38	2886.358	2406.667	3102.332
Stddev	1.394	123.46	16.309	8.057	1.836
%RSD	.0472458	.3785920	.5650350	.3347864	.0591717
#1	2949.459	32748.45	2905.175	2415.611	3102.414
#2	2948.508	32508.91	2877.604	2399.975	3100.456
#3	2951.253	32576.78	2876.295	2404.416	3104.125

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4932-10 Acquired: 12/13/2024 21:00:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0454786	.0097664	.8149943	-.001630	.0220073	63.27501	.6019748
Stddev	.0014471	.0022685	.0062257	.003013	.0013430	.29037	.0029400
%RSD	3.181863	23.22747	.7638924	184.9106	6.102701	.4588996	.4883964
#1	.0457630	.0121235	.8175237	-.001979	.0220741	62.94173	.5994511
#2	.0467623	.0075984	.8079020	.001543	.0233156	63.47341	.6012700
#3	.0439104	.0095772	.8195571	-.004453	.0206320	63.40989	.6052031

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049686	.0042307	82.68680	.1018863	.0723922	.2006044	133.4741
Stddev	.0001097	.0000583	.36887	.0014767	.0004397	.0084654	.8046
%RSD	2.208605	1.376864	.4461078	1.449384	.6073438	4.219933	.6028505
#1	.0048915	.0042941	82.35957	.1003607	.0726681	.1915212	132.6202
#2	.0050942	.0041796	83.08655	.1019896	.0718852	.2020181	134.2183
#3	.0049199	.0042183	82.61429	.1033087	.0726234	.2082739	133.5837

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.464784	35.09365	.1387808	-.008247	3.075338	.1567749	.8793502
Stddev	.010750	.15203	.0011790	.000260	.505632	.0106629	.0139734
%RSD	.2407786	.4332169	.8495153	3.148154	16.44150	6.801396	1.589058
#1	4.452585	34.92496	.1401142	-.008433	3.430003	.1664669	.8686987
#2	4.472873	35.22007	.1383519	-.007950	2.496355	.1585051	.8741800
#3	4.468894	35.13592	.1378764	-.008357	3.299657	.1453527	.8951719

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.140627	5.595689	-.027185	.0031986	1.852752	10.34159	.0414365
Stddev	.093287	.016247	.001739	.0005021	.007057	.07621	.0005393
%RSD	4.357923	.2903538	6.396474	15.69665	.3808885	.7369003	1.301436
#1	2.047173	5.613495	-.027401	.0026702	1.860900	10.25723	.0408690
#2	2.233746	5.581669	-.025348	.0036694	1.848749	10.40544	.0419422
#3	2.140964	5.591903	-.028805	.0032563	1.848606	10.36211	.0414982

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4932-10 Acquired: 12/13/2024 21:00:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.047394	.0204271	.0366956
Stddev	.003755	.0003939	.0024501
%RSD	.3584963	1.928441	6.676773
#1	1.044308	.0208807	.0347547
#2	1.051575	.0202290	.0394487
#3	1.046301	.0201715	.0358836

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2579.763	28714.34	2525.373	2102.688	3080.987
Stddev	5.277	76.95	13.676	2.429	7.560
%RSD	.2045641	.2679700	.5415502	.1155208	.2453893
#1	2582.438	28694.48	2535.740	2105.466	3078.077
#2	2583.168	28649.27	2509.873	2101.634	3089.570
#3	2573.684	28799.27	2530.507	2100.964	3075.315

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4932-11 Acquired: 12/13/2024 21:04:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0688701	.0056036	.5798763	.0119755	.0279744	82.38070	.4980495
Stddev	.0039326	.0018435	.0004605	.0042106	.0011632	.12007	.0010323
%RSD	5.710202	32.89851	.0794081	35.15994	4.158218	.1457529	.2072693
#1	.0720722	.0077256	.5800735	.0167918	.0279226	82.24211	.4969000
#2	.0644806	.0046886	.5793501	.0101429	.0291627	82.44658	.4988975
#3	.0700576	.0043966	.5802054	.0089917	.0268379	82.45342	.4983509

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0059464	.0034621	31.99282	.0975369	.0851582	.1365843	158.4121
Stddev	.0000706	.0000609	.01491	.0006111	.0005849	.0064265	.4075
%RSD	1.186792	1.760254	.0465887	.6265232	.6868273	4.705187	.2572478
#1	.0058651	.0034040	31.97663	.0969234	.0848972	.1371790	158.8805
#2	.0059920	.0035255	31.99587	.0975417	.0847493	.1298811	158.2163
#3	.0059821	.0034567	32.00596	.0981456	.0858282	.1426928	158.1394

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.458350	21.58663	.1366747	-.009719	2.828879	.1762030	.3376052
Stddev	.019027	.11490	.0003803	.000736	.442343	.0101654	.0121290
%RSD	.2249460	.5322916	.2782414	7.567544	15.63670	5.769140	3.592670
#1	8.479153	21.64923	.1367748	-.010529	3.167784	.1877172	.3484454
#2	8.441830	21.45402	.1362544	-.009534	2.328480	.1724215	.3245052
#3	8.454068	21.65664	.1369949	-.009094	2.990371	.1684703	.3398651

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9286558	2.449116	-.052734	.0044516	.4164690	9.499721	.0514709
Stddev	.0642668	.003459	.002888	.0003809	.0006830	.043949	.0013432
%RSD	6.920415	.1412307	5.476422	8.557446	.1639975	.4626394	2.609710
#1	.9960155	2.446807	-.054145	.0048737	.4164138	9.516477	.0526063
#2	.9219432	2.447447	-.049412	.0041333	.4171780	9.449858	.0499881
#3	.8680088	2.453092	-.054646	.0043478	.4158153	9.532827	.0518184

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4932-11 Acquired: 12/13/2024 21:04:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.361617	-.031347	.0314261
Stddev	.007691	.000273	.0020690
%RSD	.5648538	.8714203	6.583828
#1	1.352758	-.031505	.0291227
#2	1.366582	-.031504	.0331270
#3	1.365513	-.031031	.0320287

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2634.667	29290.41	2547.547	2149.508	3089.677
Stddev	1.924	38.11	7.971	9.391	2.951
%RSD	.0730416	.1301035	.3128773	.4368843	.0954996
#1	2636.023	29249.58	2538.781	2141.078	3090.900
#2	2635.515	29296.61	2554.358	2147.816	3091.819
#3	2632.465	29325.03	2549.503	2159.629	3086.311

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4932-12 Acquired: 12/13/2024 21:08:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHP1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1346324	.0190160	1.453876	.0201374	.0371185	73.89210	1.034246
Stddev	.0015119	.0009380	.006424	.0028549	.0008821	.20274	.004218
%RSD	1.123004	4.932455	.4418228	14.17718	2.376365	.2743668	.4077998
#1	.1354908	.0197458	1.449650	.0170511	.0377201	73.70347	1.029905
#2	.1328866	.0179581	1.450710	.0226838	.0361060	74.10648	1.038328
#3	.1355197	.0193440	1.461268	.0206773	.0375295	73.86634	1.034504

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0062436	.0132902	49.95460	.2873155	.1132351	.3413903	185.3231
Stddev	.0000219	.0001088	.12905	.0003675	.0004993	.0043580	.4818
%RSD	.3502302	.8187543	.2583376	.1279211	.4409105	1.276541	.2600054
#1	.0062648	.0133457	49.88902	.2877154	.1136883	.3369211	184.7682
#2	.0062449	.0131648	49.87151	.2869924	.1126999	.3416220	185.6364
#3	.0062211	.0133600	50.10327	.2872388	.1133170	.3456278	185.5646

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.09109	21.36154	.2678048	-.009415	2.129933	.1912458	2.101004
Stddev	.05206	.16627	.0006807	.000388	.422863	.0019103	.005683
%RSD	.3235613	.7783799	.2541768	4.122119	19.85336	.9989001	.2705017
#1	16.03252	21.39905	.2685083	-.009072	1.698753	.1925115	2.107561
#2	16.13211	21.17972	.2671494	-.009338	2.147088	.1921776	2.097477
#3	16.10864	21.50586	.2677568	-.009836	2.543957	.1890484	2.097975

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.807739	9.776929	-.020832	.0070138	2.949989	10.50405	.2152028
Stddev	.157883	.017270	.003114	.0005170	.003389	.09624	.0006050
%RSD	2.022140	.1766388	14.94640	7.370737	.1148692	.9162330	.2811361
#1	7.906981	9.768347	-.017542	.0076105	2.949452	10.41027	.2145624
#2	7.890558	9.765630	-.023733	.0067301	2.946901	10.60258	.2152812
#3	7.625678	9.796808	-.021220	.0067008	2.953614	10.49932	.2157648

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4932-12 Acquired: 12/13/2024 21:08:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHP1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.265664	.0455097	.0458740
Stddev	.012832	.0003799	.0031385
%RSD	1.013893	.8347332	6.841480
#1	1.259752	.0451238	.0491414
#2	1.280387	.0458833	.0455981
#3	1.256853	.0455221	.0428827

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2769.434	30818.29	2692.302	2262.810	3077.636
Stddev	7.411	71.29	20.108	6.950	4.124
%RSD	.2675925	.2313277	.7468775	.3071608	.1340077
#1	2761.845	30876.06	2715.374	2269.421	3073.795
#2	2769.804	30840.21	2678.512	2263.446	3077.119
#3	2776.653	30738.62	2683.019	2255.564	3081.995

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4932-13 Acquired: 12/13/2024 21:12:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHP2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1308897	.0166733	1.456292	.0181735	.0328525	70.40622	.9972659
Stddev	.0013446	.0012157	.002457	.0032494	.0007867	.21477	.0009001
%RSD	1.027288	7.291354	.1687040	17.87965	2.394600	.3050410	.0902593
#1	.1307046	.0154337	1.453737	.0160226	.0325327	70.65408	.9983030
#2	.1296472	.0167225	1.458637	.0165865	.0322761	70.28947	.9968078
#3	.1323172	.0178636	1.456504	.0219114	.0337487	70.27512	.9966871

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0059967	.0202640	48.85209	.1322403	.1085671	.3460577	180.3340
Stddev	.0001261	.0002062	.15031	.0003347	.0003782	.0093311	.3865
%RSD	2.102480	1.017420	.3076913	.2531387	.3483251	2.696398	.2143299
#1	.0059840	.0200829	49.02080	.1324375	.1086624	.3508667	180.7689
#2	.0061286	.0204883	48.80304	.1318538	.1088885	.3520034	180.0298
#3	.0058774	.0202207	48.73243	.1324296	.1081504	.3353031	180.2034

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.19896	23.60145	.2232035	-.009565	1.766150	.1858089	2.043673
Stddev	.02825	.10368	.0005109	.000558	.427620	.0061899	.004494
%RSD	.1858416	.4392978	.2288972	5.829059	24.21197	3.331347	.2198854
#1	15.22251	23.63824	.2237703	-.008998	2.258766	.1891927	2.042143
#2	15.16764	23.48439	.2227784	-.010113	1.490592	.1895693	2.040145
#3	15.20672	23.68172	.2230618	-.009584	1.549092	.1786647	2.048732

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.932585	8.099171	-.021934	.0065798	2.134437	10.22491	.2763805
Stddev	.072560	.018740	.003122	.0003759	.008358	.06178	.0015186
%RSD	1.223074	.2313814	14.23413	5.712914	.3915799	.6041988	.5494702
#1	5.917971	8.077770	-.023070	.0068961	2.125360	10.26800	.2771310
#2	5.868444	8.107101	-.024329	.0061642	2.141815	10.25260	.2746327
#3	6.011340	8.112642	-.018403	.0066790	2.136135	10.15413	.2773778

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4932-13 Acquired: 12/13/2024 21:12:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHP2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.322990	.0559928	.0403425
Stddev	.007335	.0001712	.0025689
%RSD	.5544256	.3056887	6.367629
#1	1.331429	.0559142	.0376507
#2	1.319390	.0558751	.0406094
#3	1.318150	.0561892	.0427676

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2753.114	30712.55	2698.577	2255.726	3102.598
Stddev	2.676	49.72	12.817	4.688	4.142
%RSD	.0972009	.1618819	.4749658	.2078445	.1334951
#1	2755.832	30693.62	2687.226	2260.598	3103.502
#2	2750.482	30768.95	2696.029	2255.333	3098.078
#3	2753.029	30675.08	2712.478	2251.246	3106.213

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4932-14 Acquired: 12/13/2024 21:16:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHP3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1337410	.0197708	1.319729	.0156784	.0382848	76.03628	.9822892
Stddev	.0005379	.0033259	.004505	.0026688	.0013137	.33867	.0040457
%RSD	.4021751	16.82204	.3413624	17.02240	3.431251	.4454061	.4118603
#1	.1343266	.0203879	1.316496	.0128246	.0397749	76.09262	.9846486
#2	.1336272	.0161796	1.317817	.0181125	.0377854	75.67297	.9776178
#3	.1332691	.0227449	1.324875	.0160980	.0372940	76.34325	.9846013

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0062264	.0125960	39.93240	.1242777	.1089995	.3072676	178.1049
Stddev	.0001780	.0000912	.12391	.0011713	.0003777	.0062410	.4495
%RSD	2.859630	.7239662	.3103112	.9424860	.3465478	2.031145	.2523957
#1	.0064183	.0125392	39.92644	.1253582	.1090994	.3071747	177.9930
#2	.0060665	.0125475	39.81157	.1230329	.1085819	.3010736	177.7219
#3	.0061943	.0127011	40.05919	.1244419	.1093173	.3135546	178.5998

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.75944	21.66765	.1944570	-.009919	2.795279	.1898865	1.747059
Stddev	.06850	.13479	.0003572	.001453	.449971	.0056341	.007809
%RSD	.4346701	.6220892	.1837191	14.64300	16.09755	2.967107	.4469642
#1	15.72221	21.72403	.1940711	-.011094	3.304790	.1877747	1.744255
#2	15.71763	21.51382	.1947762	-.008295	2.452355	.1856134	1.741039
#3	15.83850	21.76509	.1945237	-.010368	2.628693	.1962715	1.755882

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.472739	8.526959	-.030684	.0067061	1.578367	10.34975	.1901007
Stddev	.106008	.024982	.002291	.0001902	.004226	.08517	.0004772
%RSD	1.937026	.2929812	7.467559	2.835817	.2677403	.8229202	.2510275
#1	5.512481	8.499373	-.030059	.0069257	1.583064	10.39896	.1898748
#2	5.352602	8.533447	-.028770	.0065947	1.577161	10.25140	.1897785
#3	5.553134	8.548057	-.033223	.0065978	1.574875	10.39888	.1906490

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4932-14 Acquired: 12/13/2024 21:16:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHP3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.403461	.0783592	.0390830
Stddev	.008140	.0009375	.0010027
%RSD	.5800052	1.196404	2.565549
#1	1.402203	.0787032	.0382607
#2	1.396023	.0772983	.0387883
#3	1.412157	.0790761	.0402001

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2801.366	31286.98	2734.290	2301.328	3103.712
Stddev	2.578	231.09	15.015	15.638	4.414
%RSD	.0920365	.7386037	.5491311	.6795387	.1422294
#1	2802.239	31196.19	2729.145	2297.159	3108.248
#2	2798.465	31549.67	2751.201	2318.629	3099.430
#3	2803.395	31115.07	2722.523	2288.197	3103.457

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4932-15 Acquired: 12/13/2024 21:20:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHP4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1384180	.0144329	.6441318	.0214340	.0420259	82.10709	.7032575
Stddev	.0040264	.0031743	.0151220	.0010685	.0008234	.60199	.0049650
%RSD	2.908895	21.99336	2.347652	4.985028	1.959212	.7331794	.7060032
#1	.1373567	.0122904	.6368490	.0202668	.0420348	82.32515	.7061285
#2	.1350285	.0180796	.6615172	.0223639	.0411981	82.56966	.7061196
#3	.1428688	.0129285	.6340294	.0216712	.0428448	81.42645	.6975244

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0070253	.0081612	25.19156	.1174622	.1196692	.2288691	200.0257
Stddev	.0001675	.0003421	.20074	.0076758	.0031334	.0079687	1.3455
%RSD	2.383525	4.192117	.7968374	6.534712	2.618414	3.481754	.6726454
#1	.0068590	.0079615	25.33923	.1120294	.1182969	.2372700	200.2931
#2	.0071939	.0085562	25.27246	.1262433	.1232546	.2214179	201.2174
#3	.0070228	.0079658	24.96300	.1141137	.1174560	.2279193	198.5666

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.21810	20.36467	.1978293	-.013924	1.798817	.2003530	.8884889
Stddev	.10116	.16101	.0051371	.001659	.428790	.0092238	.0348328
%RSD	.6647623	.7906118	2.596728	11.91517	23.83734	4.603764	3.920460
#1	15.24326	20.36235	.1955479	-.013146	2.056537	.2038566	.8591450
#2	15.30431	20.52682	.2037120	-.015829	2.036081	.2073116	.9269837
#3	15.10673	20.20483	.1942281	-.012797	1.303834	.1898908	.8793380

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.457150	6.278710	-.058843	.0054930	.8553811	7.728299	.0512652
Stddev	.062729	.164895	.004726	.0003232	.0220685	.095116	.0008998
%RSD	1.407382	2.626252	8.031248	5.883604	2.579956	1.230745	1.755250
#1	4.448351	6.197515	-.055029	.0055795	.8429541	7.720383	.0522409
#2	4.523814	6.468457	-.064130	.0057642	.8808610	7.827125	.0510867
#3	4.399285	6.170157	-.057370	.0051354	.8423282	7.637388	.0504680

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4932-15 Acquired: 12/13/2024 21:20:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHP4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.410253	-.033192	.0341900
Stddev	.010255	.000247	.0040921
%RSD	.7271817	.7433645	11.96884
#1	1.416788	-.033474	.0328589
#2	1.415538	-.033081	.0309291
#3	1.398434	-.033020	.0387820

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3004.468	33332.87	2961.223	2449.057	3113.196
Stddev	47.205	1450.28	30.939	94.263	72.402
%RSD	1.571160	4.350895	1.044802	3.848962	2.325635
#1	3037.014	34274.71	2945.133	2514.754	3155.942
#2	2950.328	31662.78	2941.644	2341.052	3029.601
#3	3026.061	34061.11	2996.891	2491.364	3154.045

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4932-16 Acquired: 12/13/2024 21:23:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHP5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1307062	.0129654	.4613262	.0224888	.0394311	75.89498	.6202325
Stddev	.0025008	.0007523	.0020256	.0032316	.0002219	1.35139	.0095804
%RSD	1.913316	5.802430	.4390830	14.36959	.5627993	1.780604	1.544647
#1	.1314961	.0134231	.4604894	.0207903	.0391868	74.93610	.6134793
#2	.1327168	.0133759	.4636361	.0204607	.0396201	75.30828	.6160209
#3	.1279059	.0120971	.4598530	.0262154	.0394865	77.44057	.6311972

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0063921	.0064415	23.26770	.1104541	.1113582	.3045172	199.6649
Stddev	.0001372	.0001436	.41100	.0018148	.0001110	.0034546	3.1836
%RSD	2.146287	2.229775	1.766389	1.643073	.0996393	1.134460	1.594472
#1	.0062915	.0064920	22.97886	.1105732	.1114821	.3036025	197.4787
#2	.0063365	.0065530	23.08601	.1122065	.1113247	.3016119	198.1985
#3	.0065484	.0062794	23.73824	.1085826	.1112678	.3083371	203.3174

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.01566	21.70551	.1871162	-.012228	2.044227	.1796489	.7373531
Stddev	.23327	.34225	.0006220	.000093	.752952	.0019921	.0044719
%RSD	1.456506	1.576802	.3324170	.7588358	36.83311	1.108898	.6064803
#1	15.88097	21.50585	.1867797	-.012312	2.370678	.1817667	.7400629
#2	15.88100	21.50997	.1867348	-.012128	2.578862	.1778124	.7321915
#3	16.28502	22.10070	.1878339	-.012244	1.183141	.1793674	.7398048

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.693699	4.244525	-.052287	.0047141	.7278777	8.910064	.0735504
Stddev	.292488	.011464	.000284	.0000708	.0028558	.128028	.0003694
%RSD	5.137052	.2700813	.5423797	1.501717	.3923406	1.436888	.5022058
#1	5.466967	4.252993	-.052212	.0046629	.7310182	8.814189	.0731258
#2	5.590285	4.249101	-.052600	.0046846	.7254367	8.860548	.0737275
#3	6.023846	4.231480	-.052048	.0047949	.7271782	9.055454	.0737979

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4932-16 Acquired: 12/13/2024 21:23:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHP5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.172833	-.074161	.0402436
Stddev	.023633	.001327	.0020953
%RSD	2.015036	1.788849	5.206512
#1	1.156186	-.073127	.0407617
#2	1.162430	-.073699	.0420313
#3	1.199883	-.075657	.0379379

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3007.910	33602.85	2919.935	2472.534	3135.798
Stddev	9.865	238.79	44.213	16.974	13.992
%RSD	.3279567	.7106224	1.514171	.6864994	.4462167
#1	3005.780	33425.85	2941.822	2469.625	3130.089
#2	2999.284	33508.27	2948.934	2457.202	3125.563
#3	3018.666	33874.45	2869.047	2490.774	3151.742

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4932-17 Acquired: 12/13/2024 21:27:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHP6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1780833	.0311583	.4880581	.0307638	.0379287	75.00017	.7817412
Stddev	.0025753	.0020234	.0038544	.0027840	.0008250	1.79346	.0181063
%RSD	1.446138	6.493765	.7897450	9.049589	2.175235	2.391268	2.316144
#1	.1751418	.0333423	.4892040	.0288628	.0375966	73.14970	.7634261
#2	.1791760	.0293477	.4837607	.0339594	.0373215	76.73058	.7996311
#3	.1799321	.0307849	.4912096	.0294692	.0388681	75.12022	.7821664

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055524	.0067040	25.06943	.1075470	.1397289	.3170110	197.3426
Stddev	.0001513	.0001705	.63789	.0005002	.0012326	.0022883	4.5602
%RSD	2.724444	2.542595	2.544477	.4651363	.8821621	.7218233	2.310800
#1	.0055715	.0066893	24.39802	.1077809	.1406051	.3177232	192.3671
#2	.0056932	.0065413	25.66744	.1078874	.1383194	.3144514	201.3231
#3	.0053925	.0068813	25.14283	.1069726	.1402621	.3188585	198.3376

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.97936	18.09580	.1802985	-.010968	1.941957	.1498064	.6891610
Stddev	.62590	.39691	.0012774	.000677	.219108	.0045748	.0073204
%RSD	2.409222	2.193376	.7084864	6.172698	11.28287	3.053803	1.062221
#1	25.31192	17.67184	.1809270	-.010790	1.753537	.1547679	.6901581
#2	26.55316	18.45855	.1788286	-.010398	2.182393	.1488960	.6813931
#3	26.07301	18.15701	.1811398	-.011716	1.889943	.1457552	.6959317

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.118494	4.687364	-.050697	.0061122	.7802409	9.142277	.0676138
Stddev	.313809	.038157	.004728	.0003271	.0085758	.193108	.0008057
%RSD	5.128866	.8140305	9.325833	5.351184	1.099128	2.112256	1.191634
#1	5.782747	4.710829	-.049837	.0058698	.7876762	8.958743	.0684476
#2	6.404401	4.643337	-.055796	.0064842	.7708591	9.343713	.0668394
#3	6.168333	4.707927	-.046458	.0059826	.7821875	9.124376	.0675545

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4932-17 Acquired: 12/13/2024 21:27:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHP6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.9215888	-.087821	.0360783
Stddev	.0221500	.001906	.0014452
%RSD	2.403456	2.170425	4.005806
#1	.8973464	-.085703	.0365333
#2	.9407706	-.089397	.0344604
#3	.9266493	-.088365	.0372413

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3021.288	33495.29	2955.618	2469.624	3142.685
Stddev	20.389	16.36	64.986	8.542	24.473
%RSD	.6748352	.0488560	2.198714	.3458649	.7787185
#1	3012.273	33489.86	3014.015	2459.886	3128.535
#2	3044.631	33513.68	2885.609	2475.850	3170.944
#3	3006.962	33482.33	2967.229	2473.136	3128.577

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4932-18 Acquired: 12/13/2024 21:31:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHP7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1136745	.0130887	7.586924	.0037658	.0333835	65.45937
Stddev	.0032773	.0008091	.013613	.0007499	.0017529	.27594
%RSD	2.883038	6.181502	.1794219	19.91242	5.250773	.4215482
#1	.1107461	.0130130	7.575169	.0039405	.0332039	65.50914
#2	.1130629	.0123200	7.583764	.0029440	.0317274	65.70704
#3	.1172145	.0139329	7.601838	.0044129	.0352193	65.16193

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.278117	.0070030	.0120602	130.0609	.1744661	.0924427
Stddev	.009178	.0001274	.0000452	.6803	.0001563	.0007163
%RSD	.4028929	1.819272	.3750408	.5230588	.0896049	.7748371
#1	2.282182	.0068574	.0120106	130.4896	.1745419	.0916348
#2	2.284561	.0070575	.0120993	130.4166	.1742863	.0930000
#3	2.267608	.0070942	.0120705	129.2765	.1745701	.0926934

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4822980	177.0215	7.352577	46.08562	.2239152	-.009548
Stddev	.0028018	.7438	.036060	.26939	.0010956	.000842
%RSD	.5809300	.4201816	.4904400	.5845426	.4892969	8.818655
#1	.4805812	177.2211	7.348161	45.95421	.2228408	-.009030
#2	.4855312	177.6452	7.390641	46.39549	.2250308	-.010520
#3	.4807817	176.1983	7.318928	45.90715	.2238739	-.009095

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.091197	.1804272	4.919402	5.130394	F 11.12391	.0326556
Stddev	.441519	.0024099	.031754	.073273	.01913	.0011660
%RSD	21.11324	1.335673	.6454865	1.428208	.1719527	3.570602
#1	2.557428	.1776691	4.922251	5.213209	11.10608	.0332331
#2	2.036719	.1821265	4.949635	5.073982	11.12154	.0334201
#3	1.679445	.1814860	4.886319	5.103990	11.14411	.0313135

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4932-18 Acquired: 12/13/2024 21:31:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHP7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0072937	4.763672	10.11071	.1573986	1.295855	.0958281
Stddev	.0005367	.014726	.02037	.0013145	.009373	.0007869
%RSD	7.357860	.3091275	.2014595	.8351638	.7233264	.8211749
#1	.0066798	4.754137	10.10029	.1587351	1.295050	.0949488
#2	.0076736	4.756247	10.13418	.1561072	1.305605	.0964661
#3	.0075277	4.780632	10.09765	.1573535	1.286911	.0960695

Elem	Li6707
Units	ppm
Avg	.0498668
Stddev	.0035902
%RSD	7.199508
#1	.0500301
#2	.0461978
#3	.0533726

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2663.935	29657.73	2662.396	2183.509	3023.332
Stddev	6.569	121.09	11.288	14.357	4.991
%RSD	.2465841	.4082865	.4239680	.6575364	.1650787
#1	2659.180	29614.07	2664.116	2179.114	3019.014
#2	2661.197	29564.52	2650.347	2171.863	3022.185
#3	2671.431	29794.59	2672.725	2199.550	3028.796

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4932-19 Acquired: 12/13/2024 21:35:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHP8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0953216	.0070233	6.317961	.0082953	.0376326	78.88200	1.969912
Stddev	.0024314	.0025197	.011340	.0040449	.0018059	1.87319	.044252
%RSD	2.550698	35.87667	.1794882	48.76075	4.798704	2.374670	2.246375
#1	.0981247	.0061799	6.319438	.0063936	.0358734	78.04736	1.950887
#2	.0940557	.0098566	6.305954	.0055518	.0375424	77.57122	1.938354
#3	.0937843	.0050335	6.328489	.0129406	.0394818	81.02744	2.020494

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0104614	.0096503	107.1802	.1491267	.0925351	.3673498	192.6402
Stddev	.0003072	.0001475	2.4346	.0009196	.0006278	.0087068	4.4535
%RSD	2.936282	1.528547	2.271523	.6166728	.6784668	2.370157	2.311816
#1	.0104109	.0098123	106.2450	.1501886	.0930854	.3661488	191.0457
#2	.0101826	.0096150	105.3518	.1485949	.0926687	.3593058	189.2034
#3	.0107907	.0095236	109.9437	.1485965	.0918512	.3765947	197.6714

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.879191	36.83368	.2202408	-.011053	3.092122	.2033872	3.719175
Stddev	.145963	.89741	.0003128	.000949	.231227	.0059550	.023881
%RSD	2.482713	2.436382	.1420267	8.583367	7.477938	2.927892	.6421029
#1	5.826797	36.49231	.2199550	-.010796	2.847985	.1982926	3.741629
#2	5.766656	36.15705	.2201925	-.012104	3.120575	.2019350	3.721810
#3	6.044120	37.85168	.2205750	-.010259	3.307806	.2099339	3.694086

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.743065	9.540708	.0542752	.0065223	3.685492	11.09066	.1509052
Stddev	.282600	.023800	.0023897	.0005449	.003877	.24485	.0017876
%RSD	4.190972	.2494583	4.402931	8.355234	.1051920	2.207714	1.184561
#1	6.688798	9.551660	.0522269	.0061007	3.689710	11.04111	.1526412
#2	6.491533	9.513404	.0536982	.0063285	3.682084	10.87437	.1510040
#3	7.048863	9.557061	.0569006	.0071376	3.684683	11.35649	.1490702

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4932-19 Acquired: 12/13/2024 21:35:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHP8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	2.195238	.1626804	.0522341
Stddev	.049509	.0035108	.0028679
%RSD	2.255276	2.158083	5.490418
#1	2.178343	.1614995	.0511597
#2	2.156388	.1599123	.0500586
#3	2.250982	.1666293	.0554841

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2691.520	29850.13	2637.504	2196.857	3095.431
Stddev	3.334	169.25	57.682	13.914	4.982
%RSD	.1238709	.5670021	2.187008	.6333566	.1609378
#1	2695.274	29789.54	2648.770	2188.850	3100.340
#2	2688.903	29719.51	2688.721	2188.797	3090.380
#3	2690.382	30041.34	2575.019	2212.923	3095.573

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4932-20 Acquired: 12/13/2024 21:39:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHP9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1077365	.0228446	5.294675	.0008071	.0282224	60.31156	2.281553
Stddev	.0077416	.0003887	.028210	.0048776	.0024253	.07430	.004447
%RSD	7.185641	1.701561	.5327977	604.3615	8.593699	.1231935	.1949288
#1	.0992985	.0229376	5.272308	-.002175	.0310014	60.27377	2.283900
#2	.1093999	.0231784	5.285350	.006436	.0265328	60.39716	2.276424
#3	.1145112	.0224178	5.326367	-.001840	.0271328	60.26375	2.284335

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0058098	.0081573	184.0945	.1036803	.0963681	.3319278	163.2934
Stddev	.0001130	.0000365	.2656	.0003303	.0010114	.0064001	.2216
%RSD	1.944965	.4472152	.1442531	.3185594	1.049474	1.928171	.1356892
#1	.0059348	.0081410	184.1685	.1036412	.0952004	.3303189	163.3181
#2	.0057149	.0081991	183.7998	.1033714	.0969378	.3264856	163.5015
#3	.0057798	.0081318	184.3152	.1040284	.0969662	.3389788	163.0605

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.48471	36.68486	.1510787	-.007943	1.862214	.1592460	2.484596
Stddev	.00902	.04879	.0009732	.000956	.416200	.0048417	.015894
%RSD	.0785609	.1330092	.6441539	12.03364	22.34972	3.040371	.6396889
#1	11.49512	36.72995	.1505567	-.008769	1.504132	.1545722	2.478464
#2	11.47977	36.63306	.1504778	-.008165	2.318843	.1589261	2.502642
#3	11.47923	36.69156	.1522015	-.006896	1.763668	.1642397	2.472681

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.398483	7.777182	-.012802	.0040444	2.368248	10.44927	.1068308
Stddev	.079105	.039164	.000837	.0001584	.013373	.03097	.0004636
%RSD	1.798472	.5035694	6.539510	3.915800	.5646700	.2963603	.4339620
#1	4.400508	7.747291	-.013348	.0039071	2.363734	10.48502	.1063721
#2	4.318384	7.762740	-.013219	.0042176	2.357717	10.43211	.1072992
#3	4.476556	7.821516	-.011838	.0040085	2.383294	10.43068	.1068211

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4932-20 Acquired: 12/13/2024 21:39:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHP9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.116420	.1634728	.0425058
Stddev	.003458	.0006445	.0028616
%RSD	.3097015	.3942795	6.732148
#1	1.119097	.1639876	.0405162
#2	1.112516	.1636807	.0412159
#3	1.117647	.1627499	.0457852

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2658.910	29707.15	2653.198	2181.305	3011.942
Stddev	13.054	109.43	5.329	11.680	18.136
%RSD	.4909475	.3683564	.2008490	.5354778	.6021270
#1	2669.304	29806.22	2652.912	2186.267	3028.263
#2	2663.166	29589.70	2648.018	2167.963	3015.145
#3	2644.259	29725.54	2658.664	2189.686	2992.418

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: CCV012 Acquired: 12/13/2024 21:59:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV012 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.883461	5.101420	24.03951	4.608380	4.685591	380.6210	9.723019
Stddev	.024716	.083804	.39534	.080229	.087415	.4807	.018234
%RSD	.5061116	1.642753	1.644541	1.740928	1.865623	.1263010	.1875348
#1	4.874034	5.050880	23.78187	4.555560	4.629184	380.2507	9.712959
#2	4.864846	5.055224	23.84197	4.568880	4.641301	380.4479	9.712031
#3	4.911503	5.198156	24.49469	4.700701	4.786287	381.1643	9.744067

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4797533	2.392910	398.6630	14.55667	2.320671	14.78802	394.4939
Stddev	.0028267	.037391	.6117	.02934	.036920	.07147	.9563
%RSD	.5892027	1.562595	.1534387	.2015290	1.590913	.4832891	.2424110
#1	.4823923	2.369145	398.0580	14.58754	2.296729	14.76469	394.2619
#2	.4767703	2.373575	398.6499	14.52916	2.302095	14.73114	393.6750
#3	.4800971	2.436010	399.2812	14.55332	2.363190	14.86825	395.5449

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.76466	374.8954	2.406251	1.237826	381.3246	2.468204	13.67576
Stddev	.04919	1.0199	.038246	.000854	1.9089	.014343	.01017
%RSD	.3331862	.2720370	1.589439	.0690115	.5006028	.5810947	.0743858
#1	14.75338	374.8063	2.380546	1.237189	381.8782	2.475205	13.67115
#2	14.72208	373.9231	2.388004	1.237493	379.2000	2.451705	13.68742
#3	14.81851	375.9569	2.450203	1.238797	382.8955	2.477701	13.66871

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	140.9290	4.751203	4.619047	4.730579	4.675243	4.868473	4.846628
Stddev	.5502	.076361	.032316	.081469	.082190	.025333	.083883
%RSD	.3903997	1.607191	.6996191	1.722169	1.757993	.5203468	1.730755
#1	140.7712	4.698917	4.647039	4.681670	4.629307	4.887499	4.790351
#2	140.4749	4.715860	4.583682	4.685441	4.626290	4.839717	4.806495
#3	141.5408	4.838833	4.626420	4.824626	4.770133	4.878202	4.943039

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: CCV012 Acquired: 12/13/2024 21:59:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV012 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	4.980857	4.613276	5.001808
Stddev	.021148	.019168	.024896
%RSD	.4245772	.4154899	.4977477
#1	4.981500	4.607608	4.994419
#2	4.959396	4.597582	4.981442
#3	5.001676	4.634639	5.029562

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1931.874	23986.29	2213.781	1651.747	2570.221
Stddev	28.206	66.16	8.052	8.824	34.854
%RSD	1.460011	.2758347	.3637014	.5342067	1.356081
#1	1947.212	23973.92	2204.691	1646.765	2590.392
#2	1949.087	23927.19	2220.015	1646.541	2590.296
#3	1899.323	24057.77	2216.637	1661.935	2529.975

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: CCB012 Acquired: 12/13/2024 22:03:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB012 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005140	.0015623	.0050606	-.003994	.0017475	-.017250
Stddev	.0034182	.0021469	.0006951	.003168	.0017150	.006174
%RSD	665.0044	137.4242	13.73624	79.32924	98.13843	35.79272
#1	.0009667	.0030369	.0050016	-.001470	.0033154	-.024018
#2	-.003108	.0025507	.0057833	-.002963	.0020112	-.015806
#3	.003683	-.000901	.0043968	-.007550	-.000084	-.011925

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003174	-.000002	-.000016	.0338656	-.000994	.0003471
Stddev	.0010513	.000076	.000030	.0177864	.000617	.0001705
%RSD	331.1777	4143.852	185.7459	52.52047	62.03280	49.10862
#1	.0003441	-.000025	-.000030	.0500826	-.001191	.0004034
#2	.0013552	-.000064	.000018	.0366709	-.001488	.0004824
#3	-.000747	.000083	-.000037	.0148433	-.000303	.0001557

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038768	.0014297	.0007606	.0468573	.0000436	.0018572
Stddev	.0030067	.0148924	.0013274	.0366880	.0004272	.0012884
%RSD	77.55857	1041.667	174.5300	78.29737	979.5738	69.37335
#1	.0063396	.0184356	.0011750	.0842389	-.000103	.0031197
#2	.0005261	-.009283	.0018314	.0454285	-.000291	.0005443
#3	.0047645	-.004864	-.000725	.0109046	.000525	.0019077

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.870730	.0025327	.0008040	-.359832	-.002533	.0071691
Stddev	.495030	.0017873	.0018742	.249210	.000279	.0020179
%RSD	26.46187	70.56689	233.1231	69.25733	11.02760	28.14755
#1	2.442222	.0044751	.0029431	-.438124	-.002416	.0094615
#2	1.595129	.0021654	.0000185	-.080877	-.002852	.0063841
#3	1.574840	.0009576	-.000550	-.560496	-.002331	.0056615

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: CCB012 Acquired: 12/13/2024 22:03:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB012 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001349	-.003233	-.038070	.0002194	-.000964	-.000246
Stddev	.0002109	.002129	.000519	.0003484	.004222	.000190
%RSD	156.3418	65.83565	1.362447	158.8439	438.1574	77.05783
#1	-.000059	-.003856	-.037498	.0002461	-.005081	-.000089
#2	.000360	-.004982	-.038509	.0005537	-.001166	-.000193
#3	.000104	-.000863	-.038204	-.000142	.003356	-.000456

Elem	Li6707
Units	ppm
Avg	F -.032369
Stddev	.001066
%RSD	3.293764
#1	-.032902
#2	-.033063
#3	-.031141

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2376.437	26102.87	2281.257	1929.756	3273.829
Stddev	1.986	65.50	18.828	2.271	6.135
%RSD	.0835780	.2509254	.8253278	.1176928	.1873857
#1	2376.606	26054.11	2259.699	1932.095	3269.441
#2	2378.332	26077.18	2294.473	1929.614	3271.207
#3	2374.371	26177.32	2289.597	1927.559	3280.839

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4932-21 Acquired: 12/13/2024 22:07:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0839531	.0236653	5.020258	-.005399	.0213449	57.60113	1.792702
Stddev	.0021362	.0030632	.010373	.003767	.0012974	.10813	.004929
%RSD	2.544541	12.94402	.2066203	69.76640	6.078134	.1877280	.2749632
#1	.0817646	.0211709	5.022698	-.002953	.0227889	57.70862	1.796030
#2	.0860329	.0270844	5.008883	-.003508	.0209683	57.49236	1.787039
#3	.0840618	.0227407	5.029194	-.009737	.0202774	57.60241	1.795037

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057626	.0070940	188.3673	.1077284	.0863657	.3294728	137.1160
Stddev	.0000183	.0001268	.0838	.0008261	.0012974	.0043901	.3157
%RSD	.3166144	1.787230	.0444979	.7667978	1.502236	1.332446	.2302665
#1	.0057617	.0070372	188.4005	.1072919	.0867545	.3344877	137.2126
#2	.0057449	.0070055	188.4294	.1086812	.0849184	.3263243	136.7633
#3	.0057813	.0072392	188.2719	.1072122	.0874243	.3276065	137.3722

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.871390	63.64372	.1472950	-.006092	1.833058	.1460599	2.483562
Stddev	.028973	.10722	.0008961	.000477	.187978	.0015966	.020937
%RSD	.3680848	.1684615	.6083985	7.825711	10.25491	1.093086	.8430245
#1	7.890973	63.76687	.1481296	-.005785	1.810998	.1478423	2.473468
#2	7.838108	63.57114	.1463479	-.006641	2.031093	.1455767	2.507634
#3	7.885091	63.59314	.1474075	-.005849	1.657082	.1447608	2.469585

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.286679	8.437060	.0057404	.0035087	2.449958	10.33045	.1141982
Stddev	.184702	.007945	.0032051	.0004651	.009295	.08426	.0014173
%RSD	4.308738	.0941726	55.83384	13.25477	.3793853	.8156915	1.241082
#1	4.433041	8.441818	.0020395	.0040142	2.446291	10.36111	.1136444
#2	4.079154	8.427887	.0076048	.0034128	2.443056	10.23514	.1131414
#3	4.347842	8.441473	.0075768	.0030991	2.460527	10.39508	.1158088

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4932-21 Acquired: 12/13/2024 22:07:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.015802	.0998353	.0543811
Stddev	.003232	.0004624	.0030532
%RSD	.3182185	.4632020	5.614485
#1	1.017826	.1002609	.0509188
#2	1.012074	.0993432	.0555365
#3	1.017506	.0999019	.0566879

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2654.686	29576.55	2628.952	2165.308	2975.945
Stddev	4.585	113.97	16.895	10.779	2.044
%RSD	.1727105	.3853290	.6426438	.4978107	.0686974
#1	2657.075	29553.71	2616.281	2160.230	2977.787
#2	2649.400	29475.73	2648.133	2158.005	2973.745
#3	2657.584	29700.21	2622.441	2177.688	2976.302

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4932-22 Acquired: 12/13/2024 22:11:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHR0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1514563	.0234489	1.614274	.0211785	.0418000	75.43243
Stddev	.0029875	.0018891	.019498	.0007389	.0033521	.47625
%RSD	1.972481	8.056055	1.207835	3.488813	8.019319	.6313627
#1	.1485511	.0235658	1.604163	.0204218	.0396332	75.74483
#2	.1545197	.0215042	1.601908	.0218982	.0401058	74.88428
#3	.1512981	.0252768	1.636750	.0212156	.0456610	75.66817

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.125808	.0067806	.0151989	56.44087	.1446209	.1275104
Stddev	.007529	.0001629	.0003079	.38926	.0007031	.0024308
%RSD	.6687224	2.401984	2.025803	.6896727	.4861551	1.906365
#1	1.128457	.0069428	.0151162	56.64478	.1453130	.1269646
#2	1.117313	.0066171	.0149408	55.99202	.1446424	.1253989
#3	1.131654	.0067819	.0155397	56.68581	.1439073	.1301677

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3811977	199.8172	18.01728	22.30219	.2456219	-.009926
Stddev	.0125828	1.2759	.12040	.24390	.0028647	.000864
%RSD	3.300861	.6385455	.6682391	1.093612	1.166298	8.708954
#1	.3945359	200.5647	18.11188	22.44030	.2447402	-.009528
#2	.3695390	198.3439	17.88175	22.02057	.2433017	-.009333
#3	.3795182	200.5430	18.05821	22.44569	.2488238	-.010918

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.372791	.1959428	2.198414	8.552093	F 11.31343	-.030178
Stddev	.325008	.0038163	.015195	.223844	.14390	.004132
%RSD	13.69729	1.947659	.6911631	2.617422	1.271927	13.69188
#1	2.364072	.1990632	2.198658	8.718770	11.24647	-.030642
#2	2.052230	.1916879	2.183099	8.297669	11.21520	-.034059
#3	2.702071	.1970774	2.213485	8.639841	11.47860	-.025834

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4932-22 Acquired: 12/13/2024 22:11:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHR0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0076769	3.305363	9.112978	.1589267	1.296806	.0566936
Stddev	.0002550	.046949	.077001	.0030297	.007638	.0008337
%RSD	3.322052	1.420402	.8449582	1.906375	.5889963	1.470551
#1	.0079650	3.276861	9.190918	.1575854	1.300348	.0574930
#2	.0074800	3.279678	9.036952	.1567991	1.288039	.0558293
#3	.0075858	3.359552	9.111064	.1623956	1.302029	.0567585

Elem	Li6707
Units	ppm
Avg	.0527469
Stddev	.0040171
%RSD	7.615884
#1	.0533564
#2	.0484598
#3	.0564244

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2871.669	31891.15	2817.827	2340.502	3111.969
Stddev	21.570	36.50	22.889	6.301	29.772
%RSD	.7511453	.1144460	.8122875	.2692337	.9566954
#1	2876.182	31933.12	2793.786	2340.657	3117.638
#2	2890.625	31866.91	2839.357	2346.725	3138.498
#3	2848.199	31873.40	2820.338	2334.125	3079.770

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4914-01 Acquired: 12/13/2024 22:15:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHF2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2696253	.0189410	5.295392	.0023265	.0291407	65.69871	1.690692
Stddev	.0023638	.0022563	.015453	.0027584	.0010197	.49032	.011798
%RSD	.8767127	11.91201	.2918170	118.5665	3.499069	.7463210	.6978088
#1	.2698651	.0213130	5.312453	.0023145	.0301081	66.17089	1.702438
#2	.2718601	.0168219	5.291390	-.000426	.0292381	65.73318	1.690795
#3	.2671507	.0186881	5.282334	.005091	.0280758	65.19206	1.678843

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0054864	.0095512	119.5147	.3248164	.0949644	.4731709	149.3622
Stddev	.0001241	.0001674	.7121	.0022611	.0002296	.0041572	1.1400
%RSD	2.261808	1.752514	.5958303	.6961215	.2417854	.8785817	.7632440
#1	.0053470	.0093615	120.2213	.3272752	.0950865	.4741972	150.4550
#2	.0055850	.0096779	119.5257	.3243477	.0946996	.4767188	149.4514
#3	.0055270	.0096144	118.7972	.3228264	.0951073	.4685967	148.1803

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.638651	34.66517	.1891652	-.006620	2.517698	.1673804	1.912500
Stddev	.075967	.26284	.0008792	.000474	.347564	.0037917	.009221
%RSD	.7881460	.7582224	.4647567	7.156633	13.80485	2.265295	.4821505
#1	9.709350	34.93496	.1901225	-.006655	2.903886	.1717105	1.923148
#2	9.648271	34.65068	.1883940	-.006129	2.230026	.1646543	1.907228
#3	9.558333	34.40988	.1889792	-.007075	2.419181	.1657766	1.907125

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.957205	8.172323	-.010624	.0054583	3.885317	11.00525	.1003170
Stddev	.073131	.019418	.001701	.0002233	.016172	.03875	.0011763
%RSD	1.848059	.2376033	16.01075	4.091505	.4162393	.3521048	1.172603
#1	3.942655	8.192783	-.009590	.0056847	3.892585	11.04768	.1013248
#2	4.036517	8.170034	-.012587	.0054522	3.896580	10.99635	.1006017
#3	3.892442	8.154150	-.009695	.0052381	3.866786	10.97173	.0990244

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4914-01 Acquired: 12/13/2024 22:15:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHF2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.286611	.0960381	.0544308
Stddev	.010685	.0014956	.0061751
%RSD	.8304590	1.557336	11.34494
#1	1.292998	.0975345	.0598096
#2	1.292559	.0960366	.0476875
#3	1.274276	.0945433	.0557954

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2656.820	29512.77	2605.675	2173.720	3058.470
Stddev	4.497	240.07	7.108	13.980	8.326
%RSD	.1692779	.8134597	.2728008	.6431284	.2722147
#1	2660.241	29236.54	2597.965	2158.343	3050.227
#2	2651.726	29671.10	2611.969	2185.664	3058.308
#3	2658.492	29630.67	2607.091	2177.152	3066.875

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4914-02 Acquired: 12/13/2024 22:18:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHF3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2487850	.0186531	5.854669	.0058693	.0338383	74.65899	1.741521
Stddev	.0013634	.0018350	.020929	.0031818	.0014096	.11851	.001297
%RSD	.5480078	9.837400	.3574771	54.21056	4.165712	.1587395	.0744649
#1	.2484374	.0165355	5.855224	.0083856	.0345268	74.55574	1.743009
#2	.2476290	.0197739	5.833467	.0022928	.0322168	74.63282	1.740632
#3	.2502884	.0196499	5.875314	.0069295	.0347713	74.78840	1.740921

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0060160	.0113387	102.2365	.4613682	.1087847	.4108385	163.1075
Stddev	.0000666	.0000671	.0151	.0078744	.0009625	.0040210	.3434
%RSD	1.107166	.5913190	.0148005	1.706758	.8848216	.9787314	.2105541
#1	.0060707	.0114040	102.2375	.4522819	.1088214	.4075680	162.7960
#2	.0060353	.0113422	102.2209	.4662045	.1078043	.4153279	163.0506
#3	.0059418	.0112700	102.2511	.4656183	.1097284	.4096195	163.4758

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.94958	43.51343	.2986904	-.008455	1.963102	.1838430	2.059748
Stddev	.02324	.06312	.0006677	.000847	.218987	.0038865	.019657
%RSD	.2122035	.1450670	.2235353	10.01345	11.15513	2.114010	.9543173
#1	10.92462	43.44342	.2988102	-.007962	2.013322	.1793631	2.040018
#2	10.95353	43.56601	.2979709	-.009432	1.723368	.1858545	2.059895
#3	10.97059	43.53085	.2992900	-.007970	2.152617	.1863115	2.079330

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.823610	8.039797	-.027070	.0078941	3.800619	10.57485	.1056646
Stddev	.126966	.028283	.003656	.0000737	.018554	.07847	.0002042
%RSD	3.320571	.3517823	13.50621	.9330417	.4881905	.7420275	.1932222
#1	3.758662	8.053385	-.025619	.0079087	3.810737	10.48734	.1056880
#2	3.742256	8.007285	-.031229	.0078143	3.779205	10.63895	.1058560
#3	3.969911	8.058722	-.024362	.0079595	3.811915	10.59826	.1054497

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4914-02 Acquired: 12/13/2024 22:18:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHF3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.364347	.0583662	.0694904
Stddev	.002455	.0001265	.0048539
%RSD	.1799063	.2167613	6.984951
#1	1.362657	.0583665	.0673230
#2	1.363222	.0584926	.0750504
#3	1.367163	.0582396	.0660978

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2681.286	29931.77	2697.662	2206.810	3004.822
Stddev	9.808	362.51	12.062	25.431	11.951
%RSD	.3657802	1.211132	.4471246	1.152407	.3977200
#1	2688.276	30349.46	2711.076	2236.086	3005.089
#2	2685.507	29699.05	2687.708	2190.186	3016.637
#3	2670.075	29746.81	2694.202	2194.159	2992.740

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4914-03 Acquired: 12/13/2024 22:22:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHF4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2048217	.0206542	12.17691	.0119317	.0316866	76.31954	3.163148
Stddev	.0022849	.0010656	.07228	.0043929	.0009348	.19251	.008747
%RSD	1.115530	5.159426	.5935596	36.81668	2.949984	.2522373	.2765179
#1	.2035734	.0206074	12.10089	.0076965	.0306736	76.52183	3.173210
#2	.2074588	.0217425	12.18510	.0116318	.0318704	76.13860	3.157361
#3	.2034330	.0196127	12.24474	.0164668	.0325158	76.29818	3.158874

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0067037	.0168264	94.17611	.3387787	.1173358	.4316606	164.9978
Stddev	.0001383	.0001240	.29547	.0006957	.0008243	.0044900	.4697
%RSD	2.063174	.7368234	.3137403	.2053563	.7025301	1.040165	.2846699
#1	.0068520	.0167094	94.51602	.3382315	.1164991	.4279809	165.4586
#2	.0066807	.0169563	94.03161	.3395617	.1173612	.4303375	164.5197
#3	.0065783	.0168133	93.98071	.3385431	.1181472	.4366635	165.0152

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.84016	38.41795	.2485672	-.007845	1.724939	.1922190	3.494901
Stddev	.04338	.12097	.0017740	.000119	.237279	.0042984	.002250
%RSD	.3378842	.3148819	.7136964	1.519740	13.75577	2.236177	.0643654
#1	12.87689	38.49812	.2474683	-.007971	1.508850	.1970627	3.492535
#2	12.79229	38.27880	.2476195	-.007734	1.978861	.1907354	3.497013
#3	12.85130	38.47693	.2506138	-.007829	1.687106	.1888590	3.495155

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.150722	7.658471	-.035134	.0061608	2.830229	10.04700	.1554197
Stddev	.072890	.036109	.001508	.0001907	.014068	.03112	.0016668
%RSD	1.756085	.4714972	4.293280	3.094996	.4970731	.3097228	1.072463
#1	4.148016	7.620052	-.033825	.0059489	2.814604	10.06175	.1563318
#2	4.079223	7.663650	-.034794	.0062150	2.834192	10.01125	.1534959
#3	4.224928	7.691712	-.036784	.0063185	2.841891	10.06800	.1564315

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4914-03 Acquired: 12/13/2024 22:22:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHF4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.223870	.0677678	.0724803
Stddev	.003112	.0001657	.0023777
%RSD	.2542500	.2444766	3.280470
#1	1.226306	.0676023	.0744017
#2	1.220365	.0677674	.0698212
#3	1.224938	.0679336	.0732180

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2750.139	30813.82	2718.965	2250.410	3040.314
Stddev	5.256	42.13	12.210	2.901	11.669
%RSD	.1911232	.1367292	.4490802	.1289181	.3837962
#1	2755.142	30843.04	2712.331	2253.724	3050.400
#2	2750.612	30832.90	2733.056	2249.177	3043.009
#3	2744.662	30765.52	2711.508	2248.329	3027.534

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4914-04 Acquired: 12/13/2024 22:26:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHF5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1483004	.0279821	5.337748	.0023529	.0250247	69.98408
Stddev	.0072476	.0023578	.031385	.0027506	.0024109	.15400
%RSD	4.887095	8.425975	.5879824	116.9026	9.633953	.2200540
#1	.1469372	.0297104	5.313134	.0048332	.0238784	70.16058
#2	.1418311	.0289398	5.327019	-.000605	.0277948	69.87702
#3	.1561327	.0252962	5.373090	.002831	.0234008	69.91466

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.834319	.0063973	.0140746	184.5163	.1730458	.1182996
Stddev	.005193	.0000907	.0001002	.6046	.0015239	.0009725
%RSD	.1832171	1.417465	.7119830	.3276562	.8806051	.8220502
#1	2.839418	.0064997	.0141081	185.0736	.1725074	.1179779
#2	2.834501	.0063272	.0139619	184.6016	.1747658	.1175287
#3	2.829037	.0063651	.0141537	183.8735	.1718642	.1193921

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5463287	154.0670	12.87105	45.29387	.2377291	-.006200
Stddev	.0053497	.5431	.02535	.07104	.0005583	.000295
%RSD	.9791992	.3524790	.1969722	.1568328	.2348633	4.762240
#1	.5424078	154.3927	12.89816	45.28466	.2371061	-.006167
#2	.5441553	154.3682	12.86707	45.22789	.2378968	-.006511
#3	.5524230	153.4401	12.84792	45.36906	.2381844	-.005923

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.591088	.1546090	3.187264	9.396625	F 13.36505	-.000531
Stddev	.196912	.0091122	.037957	.152562	.08455	.000982
%RSD	7.599571	5.893692	1.190907	1.623579	.6325857	185.1145
#1	2.467812	.1515823	3.189389	9.378485	13.29642	.000061
#2	2.487267	.1648494	3.224115	9.557446	13.33923	-.001664
#3	2.818184	.1473954	3.148289	9.253945	13.45949	.000012

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4914-04 Acquired: 12/13/2024 22:26:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHF5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0074681	6.301786	10.18318	.0973751	1.019870	.2898806
Stddev	.0004381	.025248	.05169	.0017745	.005316	.0008900
%RSD	5.865781	.4006445	.5075704	1.822288	.5212256	.3070052
#1	.0070424	6.291559	10.17089	.0982259	1.016687	.2899188
#2	.0074445	6.283256	10.13875	.0953355	1.026006	.2889721
#3	.0079175	6.330543	10.23990	.0985640	1.016916	.2907508

Elem	Li6707
Units	ppm
Avg	.0667362
Stddev	.0018035
%RSD	2.702498
#1	.0677816
#2	.0646536
#3	.0677732

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2675.117	30010.98	2641.024	2193.454	2934.218
Stddev	5.004	168.58	6.180	14.864	9.108
%RSD	.1870513	.5617334	.2339822	.6776404	.3104119
#1	2679.784	30066.13	2644.991	2204.500	2942.245
#2	2675.733	29821.73	2644.178	2176.554	2936.090
#3	2669.834	30145.08	2633.904	2199.306	2924.319

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4914-05 Acquired: 12/13/2024 22:30:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHF6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1687536	.0290967	4.461193	-.000139	.0233815	63.55290
Stddev	.0015158	.0015607	.013967	.000807	.0001837	.15269
%RSD	.8982245	5.363725	.3130822	579.4831	.7855690	.2402565
#1	.1696564	.0274966	4.458276	.000776	.0235137	63.39353
#2	.1670036	.0306147	4.476388	-.000748	.0231718	63.69789
#3	.1696008	.0291788	4.448915	-.000446	.0234592	63.56728

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.579648	.0062443	.0124196	159.3203	.1307107	.1155003
Stddev	.002529	.0000785	.0001335	.4324	.0001216	.0003675
%RSD	.0980188	1.256723	1.074978	.2714096	.0930230	.3181474
#1	2.582355	.0063324	.0122657	158.8814	.1307349	.1152034
#2	2.577347	.0061821	.0124878	159.3335	.1305789	.1159112
#3	2.579241	.0062182	.0125051	159.7459	.1308184	.1153862

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4997372	138.6462	14.12983	35.75959	.1945930	-.004699
Stddev	.0047462	.4407	.05406	.13121	.0011247	.000680
%RSD	.9497341	.3178274	.3825735	.3669294	.5779903	14.48291
#1	.4982302	138.3040	14.06782	35.66248	.1947262	-.004372
#2	.4959275	138.4913	14.15468	35.70743	.1956451	-.004243
#3	.5050539	139.1434	14.16699	35.90886	.1934075	-.005481

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.416019	.1383012	2.526499	7.927092	F 15.25583	-.006117
Stddev	.077050	.0090956	.017923	.110747	.06594	.002376
%RSD	3.189147	6.576670	.7094027	1.397069	.4322084	38.84363
#1	2.340566	.1483225	2.522480	7.859781	15.21293	-.006547
#2	2.494573	.1305684	2.510927	7.866584	15.33175	-.008249
#3	2.412920	.1360125	2.546091	8.054911	15.22279	-.003555

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4914-05 Acquired: 12/13/2024 22:30:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHF6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0044383	2.476898	9.314438	.1054585	1.000399	.2624707
Stddev	.0003087	.011795	.047758	.0010242	.005370	.0011345
%RSD	6.954474	.4761826	.5127359	.9711538	.5368278	.4322356
#1	.0042558	2.469048	9.365236	.1044695	.995115	.2615521
#2	.0042644	2.490461	9.307628	.1065146	1.005852	.2637388
#3	.0047947	2.471185	9.270450	.1053915	1.000229	.2621211

Elem	Li6707
Units	ppm
Avg	.0506257
Stddev	.0019705
%RSD	3.892234
#1	.0525102
#2	.0485792
#3	.0507878

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2792.468	31119.91	2754.919	2266.358	3051.946
Stddev	13.951	143.96	13.964	2.827	16.931
%RSD	.4995815	.4626070	.5068826	.1247356	.5547728
#1	2797.682	31286.04	2747.747	2265.074	3054.784
#2	2776.661	31041.96	2745.997	2269.599	3033.774
#3	2803.060	31031.73	2771.012	2264.401	3067.278

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4914-06 Acquired: 12/13/2024 22:33:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHF7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1526000	.0224614	2.853713	-.000766	.0239938	61.28353	1.742540
Stddev	.0000684	.0024423	.008940	.002199	.0002659	.35090	.006049
%RSD	.0448507	10.87312	.3132925	286.8865	1.108358	.5725918	.3471203
#1	.1525713	.0206999	2.856069	.001501	.0241116	61.09266	1.738857
#2	.1526781	.0252494	2.843830	-.002889	.0241805	61.68850	1.749521
#3	.1525505	.0214350	2.861239	-.000911	.0236893	61.06944	1.739243

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0056934	.0089590	138.1522	.1080142	.1126798	.4383038	143.5718
Stddev	.0000721	.0001539	.9714	.0003793	.0006485	.0130254	.8003
%RSD	1.267033	1.718079	.7031271	.3511466	.5755390	2.971763	.5574007
#1	.0056325	.0090470	137.9083	.1078844	.1127029	.4285978	143.0556
#2	.0057731	.0090488	139.2223	.1077168	.1120201	.4531069	144.4937
#3	.0056747	.0087813	137.3260	.1084413	.1133165	.4332068	143.1662

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.24460	26.57223	.1843337	-.006071	2.117654	.1213205	1.716831
Stddev	.07076	.20777	.0012679	.000446	.225214	.0048590	.003867
%RSD	.5778829	.7819137	.6878357	7.342993	10.63506	4.005097	.2252191
#1	12.22071	26.50007	.1855426	-.005559	2.090784	.1268928	1.715390
#2	12.32421	26.80647	.1830140	-.006275	2.355098	.1191026	1.721212
#3	12.18888	26.41016	.1844446	-.006378	1.907081	.1179663	1.713893

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.893763	9.473082	-.006966	.0034038	1.628424	9.346321	.0726400
Stddev	.069157	.018277	.002291	.0001228	.010308	.066382	.0004419
%RSD	.8761001	.1929319	32.89300	3.608142	.6329750	.7102516	.6083980
#1	7.814111	9.481650	-.004568	.0035227	1.623076	9.288310	.0721407
#2	7.938521	9.452095	-.009134	.0034111	1.621890	9.418716	.0729810
#3	7.928658	9.485499	-.007195	.0032774	1.640306	9.331938	.0727983

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4914-06 Acquired: 12/13/2024 22:33:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHF7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6674527	.1777448	.0458368
Stddev	.0089061	.0006304	.0009528
%RSD	1.334334	.3546916	2.078655
#1	.6593710	.1774273	.0455113
#2	.6770010	.1784709	.0450893
#3	.6659859	.1773362	.0469096

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2825.415	31699.35	2795.405	2317.712	3039.483
Stddev	3.459	55.94	21.185	3.667	5.157
%RSD	.1224225	.1764723	.7578499	.1582027	.1696511
#1	2821.785	31634.76	2806.996	2321.525	3033.677
#2	2825.787	31732.37	2770.954	2314.211	3041.247
#3	2828.673	31730.91	2808.266	2317.400	3043.527

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4914-07 Acquired: 12/13/2024 22:37:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHF8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1789251	.0449401	2.405244	-.003198	.0206004	67.98812
Stddev	.0028856	.0022171	.003295	.002603	.0008666	.20563
%RSD	1.612753	4.933396	.1370094	81.39868	4.206641	.3024565
#1	.1794093	.0473143	2.406184	-.001081	.0210088	68.22244
#2	.1758280	.0445824	2.407968	-.002408	.0196050	67.90423
#3	.1815380	.0429236	2.401581	-.006105	.0211873	67.83769

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.482418	.0049706	.0079932	263.2443	.1012759	.1355006
Stddev	.002672	.0001353	.0001357	1.0695	.0002489	.0005748
%RSD	.1802261	2.721566	1.697928	.4062770	.2457677	.4242323
#1	1.485284	.0050122	.0080104	264.3027	.1015082	.1348380
#2	1.479996	.0050803	.0078497	262.1640	.1013062	.1358658
#3	1.481975	.0048195	.0081195	263.2662	.1010132	.1357979

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3585657	145.1748	16.36643	27.37551	.1985951	-.006552
Stddev	.0009961	.0914	.01635	.06147	.0008596	.000702
%RSD	.2778011	.0629718	.0999217	.2245331	.4328448	10.71161
#1	.3578104	145.2283	16.35630	27.33811	.1980602	-.006209
#2	.3596946	145.0693	16.35770	27.34197	.1995866	-.006088
#3	.3581921	145.2270	16.38530	27.44645	.1981384	-.007360

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.777512	.1364746	1.144690	7.851900	F 32.62500	.0038726
Stddev	.288049	.0032425	.002420	.143129	.06178	.0010375
%RSD	10.37076	2.375892	.2114048	1.822858	.1893698	26.78989
#1	3.108651	.1379787	1.142127	7.986599	32.55366	.0031266
#2	2.639004	.1386919	1.145007	7.701617	32.66076	.0034339
#3	2.584880	.1327532	1.146936	7.867484	32.66057	.0050573

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4914-07 Acquired: 12/13/2024 22:37:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHF8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041162	1.932532	9.764922	.0800961	.8245362	.3991553
Stddev	.0000590	.004156	.028660	.0003057	.0027365	.0009380
%RSD	1.432944	.2150337	.2934984	.3817345	.3318857	.2349958
#1	.0041653	1.937153	9.788681	.0800724	.8263188	.4001498
#2	.0041326	1.929102	9.772993	.0798028	.8213854	.3990296
#3	.0040508	1.931340	9.733092	.0804129	.8259044	.3982865

Elem	Li6707
Units	ppm
Avg	.0614272
Stddev	.0007849
%RSD	1.277790
#1	.0622806
#2	.0612647
#3	.0607362

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3098.533	34767.11	3130.378	2541.966	2965.047
Stddev	6.150	41.90	6.082	5.374	5.685
%RSD	.1984903	.1205054	.1943046	.2114177	.1917357
#1	3092.331	34815.49	3128.454	2536.526	2961.553
#2	3098.637	34742.72	3125.490	2542.100	2961.980
#3	3104.630	34743.12	3137.190	2547.272	2971.607

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4914-08 Acquired: 12/13/2024 22:41:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHF9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1412827	.0120628	.7663488	.0079075	.0318609	75.18125	.6769060
Stddev	.0036092	.0022671	.0050207	.0022705	.0021282	2.10281	.0191829
%RSD	2.554600	18.79450	.6551411	28.71290	6.679779	2.796985	2.833901
#1	.1386646	.0145781	.7621979	.0070228	.0341814	72.75446	.6547613
#2	.1397836	.0114337	.7649192	.0062126	.0300001	76.32507	.6884150
#3	.1453999	.0101767	.7719292	.0104872	.0314013	76.46421	.6875417

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0067171	.0050666	55.41891	.1110393	.1259946	.5738234	176.0668
Stddev	.0002302	.0000347	1.55486	.0008452	.0009797	.0164538	4.3261
%RSD	3.426290	.6844915	2.805656	.7611374	.7775510	2.867401	2.457078
#1	.0065004	.0050948	53.62422	.1119972	.1254425	.5552004	171.0715
#2	.0069587	.0050279	56.27258	.1107221	.1254155	.5798765	178.5884
#3	.0066922	.0050771	56.35993	.1103986	.1271257	.5863932	178.5404

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.962624	25.92697	.2160766	-.009749	2.845313	.1485856	.5823892
Stddev	.255682	.79101	.0018425	.001024	.401085	.0026438	.0066898
%RSD	2.566412	3.050910	.8527087	10.49953	14.09633	1.779284	1.148676
#1	9.667729	25.01510	.2150087	-.008927	3.006103	.1457937	.5858876
#2	10.12235	26.42833	.2150170	-.009426	2.388781	.1510509	.5866045
#3	10.09779	26.33749	.2182041	-.010896	3.141054	.1489123	.5746757

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.30402	7.555229	-.021505	.0028536	.9316287	8.898993	.0330814
Stddev	.37229	.039016	.002857	.0003998	.0037211	.183595	.0007526
%RSD	3.613069	.5164149	13.28381	14.00976	.3994130	2.063100	2.274928
#1	9.87715	7.533804	-.024133	.0030426	.9286385	8.688315	.0322185
#2	10.56144	7.531619	-.021917	.0023944	.9304517	9.024786	.0336024
#3	10.47347	7.600263	-.018464	.0031239	.9357959	8.983879	.0334232

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4914-08 Acquired: 12/13/2024 22:41:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHF9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7792471	.0060290	.0659298
Stddev	.0168753	.0003700	.0049067
%RSD	2.165596	6.136370	7.442231
#1	.7597634	.0057335	.0642400
#2	.7892447	.0064439	.0620915
#3	.7887333	.0059097	.0714581

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2975.613	33628.79	2951.003	2469.820	3079.970
Stddev	9.805	37.79	57.079	6.685	14.620
%RSD	.3294959	.1123599	1.934215	.2706721	.4746913
#1	2983.884	33591.51	3016.374	2462.752	3089.785
#2	2978.174	33627.81	2911.040	2470.668	3086.958
#3	2964.783	33667.06	2925.595	2476.041	3063.167

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4914-09 Acquired: 12/13/2024 22:45:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHG0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1600840	.0260095	1.547035	.0078248	.0329669	78.86868
Stddev	.0020563	.0041215	.003977	.0041525	.0014551	.16464
%RSD	1.284536	15.84634	.2571021	53.06794	4.413728	.2087487
#1	.1584917	.0244730	1.551349	.0119268	.0324154	78.69464
#2	.1624056	.0306786	1.546245	.0079238	.0346171	79.02194
#3	.1593546	.0228769	1.543512	.0036237	.0318682	78.88946

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9616723	.0069919	.0078944	133.1469	.1168767	.1406910
Stddev	.0015463	.0000584	.0001181	.2306	.0010286	.0007227
%RSD	.1607969	.8354021	1.495471	.1731803	.8800713	.5136445
#1	.9605871	.0070225	.0080232	132.9658	.1162454	.1409189
#2	.9634428	.0069245	.0077913	133.4065	.1163210	.1412722
#3	.9609868	.0070286	.0078687	133.0684	.1180636	.1398819

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4878788	192.9706	13.00323	29.99223	.2478099	-.010953
Stddev	.0034817	.6216	.02323	.05539	.0012389	.000489
%RSD	.7136384	.3221379	.1786503	.1846915	.4999176	4.461872
#1	.4841668	192.7842	12.99922	29.93526	.2490479	-.010497
#2	.4910720	193.6642	13.02821	29.99553	.2478115	-.011469
#3	.4883977	192.4636	12.98227	30.04590	.2465702	-.010893

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.289797	.1608122	1.190534	10.01489	F 11.45714	-.026883
Stddev	.808888	.0077130	.016248	.14819	.04907	.002642
%RSD	35.32577	4.796298	1.364749	1.479737	.4282585	9.827312
#1	2.234343	.1567320	1.181760	9.92949	11.50903	-.028678
#2	1.510062	.1697083	1.180558	10.18601	11.45090	-.028120
#3	3.124986	.1559962	1.209282	9.92917	11.41150	-.023849

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4914-09 Acquired: 12/13/2024 22:45:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHG0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029869	1.223252	8.119726	.0459281	.7997510	.0782286
Stddev	.0003699	.004320	.080905	.0018461	.0019099	.0006463
%RSD	12.38254	.3531548	.9963967	4.019610	.2388113	.8261743
#1	.0033200	1.221658	8.142632	.0462808	.7996374	.0775940
#2	.0025889	1.228142	8.186708	.0475724	.8017151	.0788860
#3	.0030517	1.219955	8.029838	.0439311	.7979004	.0782059

Elem	Li6707
Units	ppm
Avg	.0860288
Stddev	.0005052
%RSD	.5872697
#1	.0866073
#2	.0856746
#3	.0858044

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3030.878	33709.11	3018.283	2468.085	2982.833
Stddev	10.919	115.47	20.621	8.599	13.001
%RSD	.3602436	.3425589	.6831908	.3483945	.4358570
#1	3019.537	33705.86	3009.224	2467.620	2969.833
#2	3031.779	33826.18	3003.743	2476.907	2982.831
#3	3041.318	33595.30	3041.883	2459.729	2995.835

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4914-10 Acquired: 12/13/2024 22:49:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHG1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1453814	.0254691	.4739767	.0088395	.0320573	78.20932	.6173368
Stddev	.0044859	.0024940	.0022304	.0011489	.0021847	.19134	.0023579
%RSD	3.085635	9.792455	.4705651	12.99680	6.815037	.2446554	.3819460
#1	.1403501	.0282815	.4723395	.0101347	.0337300	78.23787	.6180584
#2	.1468300	.0245995	.4765170	.0084402	.0328563	78.38478	.6192495
#3	.1489640	.0235263	.4730735	.0079435	.0295856	78.00530	.6147024

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0070848	.0072916	147.9302	.1056383	.1353969	.3203988	191.1125
Stddev	.0001998	.0000550	.2965	.0006627	.0005896	.0025629	.9462
%RSD	2.819935	.7547893	.2004567	.6273655	.4354273	.7998968	.4950865
#1	.0068875	.0072830	148.1727	.1063260	.1353400	.3226248	191.6988
#2	.0072869	.0072414	148.0182	.1055852	.1360128	.3209745	191.6176
#3	.0070799	.0073505	147.5996	.1050037	.1348379	.3175970	190.0209

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.28287	36.87373	.2980779	-.011471	2.015290	.1532270	.6305182
Stddev	.05376	.17231	.0008245	.000402	.115760	.0034866	.0086716
%RSD	.4377116	.4673089	.2766051	3.500597	5.744066	2.275465	1.375321
#1	12.31350	36.97319	.2985823	-.011719	2.009277	.1494717	.6404479
#2	12.31432	36.97324	.2971264	-.011008	1.902654	.1563616	.6244364
#3	12.22079	36.67476	.2985249	-.011687	2.133938	.1538477	.6266702

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.602849	9.359611	-.037726	.0029716	.7826051	7.464388	.0289754
Stddev	.206044	.021062	.004238	.0001826	.0011436	.038282	.0014913
%RSD	2.395067	.2250303	11.23474	6.146062	.1461254	.5128650	5.146908
#1	8.667907	9.358616	-.036625	.0028943	.7819377	7.445976	.0292039
#2	8.768512	9.381152	-.042406	.0028404	.7839255	7.508398	.0303393
#3	8.372129	9.339064	-.034147	.0031802	.7819520	7.438791	.0273830

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4914-10 Acquired: 12/13/2024 22:49:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHG1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6134243	-.005469	.0808901
Stddev	.0023219	.000147	.0021370
%RSD	.3785155	2.687841	2.641844
#1	.6142580	-.005637	.0801279
#2	.6152142	-.005368	.0792387
#3	.6108006	-.005401	.0833037

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3397.777	38063.74	3399.050	2789.499	2981.060
Stddev	3.605	301.29	18.617	21.526	5.277
%RSD	.1061116	.7915418	.5477056	.7716952	.1770141
#1	3401.940	37719.59	3396.144	2764.712	2984.711
#2	3395.687	38191.68	3382.056	2803.500	2975.010
#3	3395.704	38279.95	3418.948	2800.285	2983.460

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4914-14 Acquired: 12/13/2024 22:52:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.351766	.0122703	9.384959	.0071722	.0399410	68.77234	2.876025
Stddev	.007853	.0028324	.007605	.0025730	.0015440	.38919	.016506
%RSD	.5809536	23.08323	.0810320	35.87555	3.865661	.5659039	.5739132
#1	1.345686	.0092036	9.376588	.0064907	.0413611	68.76732	2.876291
#2	1.348980	.0128193	9.386849	.0050085	.0382975	68.38569	2.859387
#3	1.360632	.0147879	9.391441	.0100174	.0401646	69.16401	2.892396

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0064879	.0110350	126.5731	.2119873	.1222869	.7289045	181.2312
Stddev	.0000709	.0001298	.6605	.0005650	.0004331	.0039581	.7750
%RSD	1.092878	1.176331	.5218515	.2665363	.3541673	.5430187	.4276353
#1	.0064714	.0109463	126.6081	.2113714	.1219733	.7304133	181.2933
#2	.0065656	.0111840	125.8957	.2124817	.1227810	.7244139	180.4270
#3	.0064267	.0109748	127.2154	.2121087	.1221063	.7318862	181.9733

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.872565	47.66885	.2006051	-.009424	3.087498	.2076464	5.056394
Stddev	.037111	.34351	.0003567	.000234	.460855	.0036245	.014968
%RSD	.4714011	.7206172	.1778000	2.480053	14.92648	1.745508	.2960262
#1	7.882793	47.59468	.2002130	-.009183	2.678978	.2115026	5.050083
#2	7.831412	47.36848	.2009103	-.009438	2.996428	.2043098	5.045615
#3	7.903490	48.04338	.2006919	-.009650	3.587090	.2071267	5.073484

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.284649	9.775400	-.022253	.0093717	5.770582	10.03241	.2143762
Stddev	.026313	.007387	.001152	.0001210	.019113	.01799	.0013094
%RSD	.4979208	.0755623	5.176135	1.290705	.3312068	.1793157	.6107803
#1	5.291352	9.770850	-.023116	.0094206	5.752151	10.04812	.2155569
#2	5.306962	9.771426	-.022699	.0094606	5.769285	10.03632	.2129680
#3	5.255632	9.783922	-.020945	.0092340	5.790310	10.01278	.2146037

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4914-14 Acquired: 12/13/2024 22:52:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	2.626238	.1710977	.0495393
Stddev	.013762	.0012826	.0019343
%RSD	.5240110	.7496541	3.904603
#1	2.631474	.1708943	.0479254
#2	2.610627	.1699290	.0490091
#3	2.636614	.1724700	.0516834

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2601.196	29123.57	2591.981	2130.755	3077.715
Stddev	7.985	118.53	13.005	3.586	3.419
%RSD	.3069647	.4069803	.5017241	.1683032	.1110861
#1	2592.069	29064.85	2579.669	2130.263	3074.185
#2	2606.894	29259.99	2605.582	2134.562	3081.011
#3	2604.623	29045.86	2590.692	2127.440	3077.950

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4914-15 Acquired: 12/13/2024 22:56:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.795953	.0143022	10.73929	.0070278	.0438447	63.05239
Stddev	.000707	.0024121	.03280	.0040820	.0008485	.54865
%RSD	.0393654	16.86537	.3054031	58.08340	1.935269	.8701432
#1	1.795366	.0127530	10.71074	.0054387	.0441563	62.48387
#2	1.795754	.0170813	10.77511	.0039794	.0428845	63.09458
#3	1.796738	.0130722	10.73200	.0116654	.0444934	63.57872

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.453152	.0062343	.0119273	165.5472	.2148249	.1025546
Stddev	.036577	.0001830	.0001885	1.5254	.0013052	.0005129
%RSD	.8213755	2.935477	1.580220	.9214007	.6075518	.5001419
#1	4.413393	.0063343	.0119142	164.0769	.2154306	.1020828
#2	4.460690	.0060231	.0121219	165.4423	.2133269	.1031005
#3	4.485372	.0063455	.0117457	167.1222	.2157171	.1024805

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7012913	184.6592	9.041995	40.91663	.1725434	-.009786
Stddev	.0169039	2.0561	.094340	.29981	.0007642	.000488
%RSD	2.410394	1.113449	1.043359	.7327429	.4429243	4.982804
#1	.6868983	182.3977	8.945008	40.61875	.1718919	-.010325
#2	.7199059	185.1641	9.047531	40.91280	.1733847	-.009375
#3	.6970698	186.4157	9.133445	41.21834	.1723538	-.009657

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.558169	.1693698	4.478641	4.070415	F 14.80747	-.014714
Stddev	.795494	.0096354	.036227	.142172	.04334	.002716
%RSD	22.35683	5.688966	.8088741	3.492812	.2927206	18.45964
#1	4.190663	.1667295	4.454603	3.912279	14.77094	-.014870
#2	3.818787	.1800501	4.461012	4.187662	14.85536	-.011923
#3	2.665056	.1613298	4.520308	4.111303	14.79610	-.017349

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4914-15 Acquired: 12/13/2024 22:56:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0074665	5.469264	10.31886	.4798858	1.911480	.3275783
Stddev	.0004455	.010017	.08776	.0013638	.014124	.0027065
%RSD	5.967227	.1831429	.8505012	.2842001	.7389017	.8262218
#1	.0069715	5.458745	10.22373	.4792510	1.895885	.3248008
#2	.0078353	5.478689	10.33618	.4814513	1.915145	.3277263
#3	.0075928	5.470358	10.39667	.4789550	1.923410	.3302078

Elem	Li6707
Units	ppm
Avg	.0460033
Stddev	.0037652
%RSD	8.184666
#1	.0421303
#2	.0496506
#3	.0462291

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2592.284	28968.61	2549.452	2118.225	3053.999
Stddev	11.369	192.13	24.409	18.849	10.360
%RSD	.4385825	.6632341	.9574335	.8898552	.3392169
#1	2593.419	29051.28	2577.636	2134.729	3054.695
#2	2580.390	29105.57	2535.106	2122.261	3043.309
#3	2603.044	28748.98	2535.615	2097.684	3063.993

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4914-16 Acquired: 12/13/2024 23:00:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9512216	.0108522	5.282267	.0055568	.0516240	70.55193	4.234152
Stddev	.0016369	.0023108	.039660	.0018839	.0016860	.38740	.021731
%RSD	.1720861	21.29345	.7508206	33.90227	3.265969	.5490983	.5132267
#1	.9528202	.0111860	5.260668	.0063843	.0504183	70.59361	4.241352
#2	.9495489	.0129780	5.258095	.0068854	.0509031	70.91680	4.251370
#3	.9512957	.0083926	5.328039	.0034008	.0535506	70.14538	4.209735

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0075008	.0102127	198.9382	.1779613	.0884096	.7209759	239.2162
Stddev	.0001440	.0001903	1.4103	.0023643	.0011279	.0061636	1.1697
%RSD	1.919716	1.863586	.7088938	1.328566	1.275801	.8548999	.4889595
#1	.0076081	.0102341	199.2627	.1787032	.0886337	.7275338	239.6045
#2	.0075571	.0100126	200.1579	.1798658	.0871864	.7200919	240.1423
#3	.0073371	.0103915	197.3939	.1753150	.0894086	.7153020	237.9017

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.317671	32.84936	.1769340	-.014535	4.174324	.1839721	3.507043
Stddev	.035157	.23225	.0009456	.000086	.193085	.0033942	.049448
%RSD	.4804432	.7070248	.5344176	.5919014	4.625535	1.844955	1.409972
#1	7.333656	32.83143	.1763734	-.014576	4.050942	.1870331	3.485072
#2	7.341995	33.09006	.1764029	-.014593	4.075191	.1803219	3.563669
#3	7.277361	32.62660	.1780257	-.014436	4.396840	.1845615	3.472387

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.761386	8.689432	.0214484	.0095035	7.989003	9.264736	.1708188
Stddev	.013138	.084733	.0023597	.0002119	.068861	.084790	.0004656
%RSD	.2759319	.9751234	11.00186	2.229368	.8619476	.9151898	.2725918
#1	4.775113	8.648884	.0231361	.0094050	7.951486	9.358878	.1703147
#2	4.760118	8.632592	.0187520	.0093589	7.947047	9.240954	.1712328
#3	4.748928	8.786819	.0224571	.0097467	8.068475	9.194377	.1709088

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4914-16 Acquired: 12/13/2024 23:00:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	2.036059	.6731075	.0447913
Stddev	.009271	.0041300	.0037034
%RSD	.4553488	.6135700	8.268145
#1	2.033889	.6743589	.0407613
#2	2.046223	.6764670	.0480451
#3	2.028066	.6684965	.0455674

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2550.744	28291.06	2540.652	2070.078	3033.980
Stddev	13.534	285.02	16.830	19.290	23.813
%RSD	.5306010	1.007455	.6624250	.9318390	.7848863
#1	2554.083	28375.74	2528.309	2072.236	3045.603
#2	2562.297	27973.30	2533.825	2049.800	3049.750
#3	2535.853	28524.15	2559.823	2088.199	3006.587

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4914-17 Acquired: 12/13/2024 23:04:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7094409	.0136573	5.488737	.0081432	.0390254	65.30691
Stddev	.0045159	.0005719	.010217	.0076795	.0016861	.63095
%RSD	.6365483	4.187607	.1861471	94.30516	4.320466	.9661244
#1	.7093411	.0142765	5.496476	.0095252	.0408707	65.02226
#2	.7140060	.0131489	5.477156	-.000133	.0386405	64.86843
#3	.7049758	.0135466	5.492580	.015038	.0375651	66.03003

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.013380	.0078731	.0105294	108.3734	.2017690	.0911028
Stddev	.025362	.0001280	.0001257	1.0128	.0010228	.0003244
%RSD	.8416397	1.625402	1.193775	.9345166	.5069175	.3560799
#1	3.002850	.0077291	.0106217	107.8416	.2022634	.0914628
#2	2.994980	.0079161	.0105801	107.7373	.2005929	.0910122
#3	3.042311	.0079740	.0103862	109.5413	.2024507	.0908333

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9350101	183.1333	9.604339	25.15321	.1606829	-.005479
Stddev	.0032771	1.8971	.103780	.20896	.0007822	.000619
%RSD	.3504848	1.035889	1.080551	.8307359	.4867801	11.29989
#1	.9382087	181.8500	9.536771	25.09140	.1599317	-.005925
#2	.9351618	182.2376	9.552413	24.98213	.1606244	-.004772
#3	.9316598	185.3124	9.723833	25.38610	.1614928	-.005739

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.473617	.1974126	3.819348	4.553595	F 14.60468	.0004387
Stddev	.752768	.0015875	.030589	.126835	.03804	.0017848
%RSD	21.67101	.8041468	.8009087	2.785377	.2604360	406.8247
#1	2.604454	.1990946	3.785040	4.585650	14.64013	.0006367
#2	3.899493	.1972027	3.843777	4.413809	14.56450	-.001437
#3	3.916904	.1959405	3.829228	4.661328	14.60941	.002116

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4914-17 Acquired: 12/13/2024 23:04:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0078980	3.938483	8.946486	.4490218	1.559375	.4375739
Stddev	.0008214	.009907	.069100	.0015670	.012851	.0032966
%RSD	10.40062	.2515497	.7723686	.3489886	.8241084	.7533812
#1	.0088293	3.949855	8.923828	.4508092	1.551506	.4365453
#2	.0075885	3.931720	8.891560	.4483718	1.552415	.4349142
#3	.0072763	3.933874	9.024070	.4478844	1.574205	.4412621

Elem	Li6707
Units	ppm
Avg	.0627328
Stddev	.0064828
%RSD	10.33397
#1	.0554559
#2	.0648508
#3	.0678917

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2590.226	28850.20	2525.469	2110.019	3059.443
Stddev	6.205	143.41	29.173	14.165	6.664
%RSD	.2395594	.4970830	1.155153	.6713042	.2178143
#1	2589.298	28945.24	2538.508	2122.001	3059.290
#2	2596.843	28920.12	2545.848	2113.670	3066.182
#3	2584.537	28685.24	2492.051	2094.386	3052.857

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4914-18 Acquired: 12/13/2024 23:08:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6682069	.0247023	6.052620	.0205778	.0519548	96.63663
Stddev	.0025553	.0030841	.024562	.0034393	.0047149	.29216
%RSD	.3824120	12.48501	.4058144	16.71382	9.074992	.3023252
#1	.6708466	.0219295	6.074179	.0244440	.0567307	96.46608
#2	.6657453	.0241535	6.057799	.0178583	.0473034	96.46984
#3	.6680290	.0280240	6.025880	.0194311	.0518305	96.97397

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.168128	.0085908	.0134276	143.0156	.2025610	.1452717
Stddev	.008503	.0000983	.0000704	.2775	.0034420	.0008640
%RSD	.2684025	1.144214	.5245955	.1940020	1.699215	.5947707
#1	3.163265	.0086110	.0134963	142.9625	.2064932	.1462593
#2	3.163173	.0086774	.0134309	142.7685	.2000945	.1446553
#3	3.177947	.0084839	.0133555	143.3158	.2010953	.1449005

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6578169	261.4206	19.03191	33.78081	.2348731	-.008846
Stddev	.0039009	.6093	.04865	.11840	.0019108	.000619
%RSD	.5930033	.2330552	.2556006	.3504939	.8135481	6.998104
#1	.6536080	261.4701	19.00635	33.90190	.2370794	-.009156
#2	.6613109	260.7882	19.00138	33.77522	.2337868	-.008133
#3	.6585319	262.0036	19.08801	33.66530	.2337530	-.009248

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.981189	.2562852	3.586894	8.726040	F 30.84630	-.044123
Stddev	.301817	.0062419	.041678	.248243	.13824	.001711
%RSD	10.12405	2.435514	1.161950	2.844852	.4481577	3.876764
#1	2.636300	.2552589	3.627079	8.587973	30.98739	-.043353
#2	3.110248	.2629765	3.589735	8.577525	30.84040	-.046083
#3	3.197019	.2506200	3.543868	9.012623	30.71110	-.042932

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4914-18 Acquired: 12/13/2024 23:08:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0076659	4.335868	6.934223	.7679621	2.318735	.4291631
Stddev	.0004920	.017078	.039389	.0029524	.009260	.0010498
%RSD	6.418006	.3938680	.5680305	.3844403	.3993372	.2446155
#1	.0080618	4.351695	6.945237	.7713035	2.318908	.4303124
#2	.0078207	4.338141	6.890500	.7668771	2.309391	.4282546
#3	.0071151	4.317768	6.966932	.7657058	2.327907	.4289222

Elem	Li6707
Units	ppm
Avg	.1330499
Stddev	.0029017
%RSD	2.180943
#1	.1356846
#2	.1335253
#3	.1299399

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2766.226	30780.45	2722.162	2243.994	2938.371
Stddev	19.600	252.29	15.673	15.459	23.759
%RSD	.7085421	.8196486	.5757448	.6889137	.8085774
#1	2745.359	30506.69	2730.863	2226.901	2913.793
#2	2769.072	30831.06	2731.554	2248.083	2940.104
#3	2784.247	31003.60	2704.069	2256.997	2961.217

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4914-19 Acquired: 12/13/2024 23:11:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHL0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2912719	.0330947	1.670083	.0253049	.0443701	93.12129
Stddev	.0017680	.0041096	.021801	.0022682	.0005856	.24234
%RSD	.6069777	12.41758	1.305366	8.963465	1.319886	.2602388
#1	.2923179	.0350107	1.678257	.0262594	.0446622	93.06349
#2	.2922670	.0358964	1.686614	.0227154	.0436958	92.91307
#3	.2892306	.0283770	1.645376	.0269398	.0447521	93.38730

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.595079	.0071726	.0080449	62.05272	.1306596	.1430003
Stddev	.003417	.0000987	.0001474	.14016	.0011079	.0018692
%RSD	.2142148	1.376332	1.831583	.2258650	.8479135	1.307123
#1	1.592541	.0072340	.0080357	61.97543	.1294843	.1434009
#2	1.593732	.0070587	.0081967	61.96823	.1308097	.1446367
#3	1.598964	.0072251	.0079024	62.21451	.1316848	.1409633

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2720634	229.8896	25.74347	23.15102	.1793760	-.011091
Stddev	.0056222	.3163	.04773	.07447	.0022725	.000625
%RSD	2.066489	.1375830	.1853901	.3216716	1.266887	5.636009
#1	.2674078	229.5464	25.69533	23.07603	.1797153	-.011736
#2	.2783095	229.9529	25.74430	23.15205	.1814599	-.011049
#3	.2704728	230.1694	25.79077	23.22496	.1769530	-.010488

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.966414	.2250291	1.015613	5.889171	F 14.36622	-.061060
Stddev	.461523	.0062651	.012821	.073864	.21106	.003240
%RSD	23.47029	2.784107	1.262422	1.254227	1.469155	5.306996
#1	1.496778	.2183458	1.002920	5.968910	14.43876	-.059903
#2	1.983091	.2307688	1.028559	5.823089	14.53145	-.058557
#3	2.419372	.2259727	1.015359	5.875513	14.12846	-.064720

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4914-19 Acquired: 12/13/2024 23:11:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHL0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0060855	2.022825	7.507855	.1267516	1.714578	.1080940
Stddev	.0001504	.027355	.029191	.0009250	.000281	.0003611
%RSD	2.471409	1.352310	.3888045	.7298095	.0163742	.3340436
#1	.0059409	2.027633	7.513276	.1274622	1.714900	.1083383
#2	.0062411	2.047458	7.476334	.1270870	1.714388	.1076792
#3	.0060746	1.993385	7.533956	.1257056	1.714445	.1082644

Elem	Li6707
Units	ppm
Avg	.0894115
Stddev	.0034561
%RSD	3.865377
#1	.0907980
#2	.0854775
#3	.0919591

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2784.168	31072.60	2743.226	2274.600	3006.610
Stddev	36.110	163.97	4.375	12.498	46.471
%RSD	1.296990	.5277114	.1594952	.5494771	1.545627
#1	2775.487	31208.99	2739.025	2288.341	2997.521
#2	2753.189	30890.67	2742.896	2263.908	2965.354
#3	2823.827	31118.15	2747.757	2271.550	3056.953

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4914-20 Acquired: 12/13/2024 23:15:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHL1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2510052	.0068469	5.074671	.0138818	.0334633	73.65085	1.376317
Stddev	.0048852	.0017249	.005342	.0002148	.0005657	.68577	.010198
%RSD	1.946247	25.19245	.1052762	1.547259	1.690418	.9311152	.7409731
#1	.2541706	.0069417	5.069125	.0136406	.0340011	73.72979	1.376592
#2	.2534660	.0085224	5.079784	.0139522	.0335156	72.92903	1.365985
#3	.2453790	.0050766	5.075104	.0140525	.0328734	74.29374	1.386376

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0061810	.0093355	37.94756	.4087152	.0899061	.4563970	144.1285
Stddev	.0000832	.0000356	.29777	.0037636	.0009482	.0113072	1.7586
%RSD	1.346102	.3816293	.7846987	.9208302	1.054635	2.477496	1.220191
#1	.0060878	.0093548	37.98386	.4082877	.0892029	.4657369	144.4352
#2	.0062077	.0093574	37.63329	.4126744	.0909845	.4438259	142.2366
#3	.0062476	.0092944	38.22551	.4051837	.0895310	.4596281	145.7136

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.513695	20.80497	.2254018	-.006533	2.200990	.1713491	1.986975
Stddev	.086990	.18778	.0006195	.000996	.325728	.0044304	.012325
%RSD	1.021761	.9025600	.2748469	15.24763	14.79918	2.585612	.6202849
#1	8.532390	20.81465	.2259412	-.005909	2.387879	.1671673	1.997643
#2	8.418878	20.61253	.2247252	-.007681	1.824874	.1708879	1.973483
#3	8.589818	20.98771	.2255391	-.006007	2.390218	.1759921	1.989800

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.355125	9.985021	-.026353	.0062235	3.155750	8.471885	.1762275
Stddev	.110083	.012934	.000727	.0004772	.004731	.078724	.0015723
%RSD	8.123423	.1295292	2.760570	7.668456	.1499067	.9292336	.8922186
#1	1.292206	9.972292	-.025513	.0060237	3.160119	8.466899	.1758764
#2	1.290933	9.984621	-.026747	.0058786	3.156406	8.395773	.1748603
#3	1.482235	9.998150	-.026798	.0067681	3.150726	8.552983	.1779457

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4914-20 Acquired: 12/13/2024 23:15:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHL1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.304065	-.017109	.0507699
Stddev	.015336	.000439	.0025732
%RSD	1.176027	2.568099	5.068304
#1	1.302210	-.017498	.0487320
#2	1.289741	-.016632	.0499162
#3	1.320244	-.017195	.0536614

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2592.667	28837.82	2550.655	2111.467	3063.456
Stddev	6.499	163.77	26.546	12.167	8.237
%RSD	.2506734	.5679041	1.040765	.5762292	.2688918
#1	2599.871	28925.96	2558.178	2121.877	3070.173
#2	2587.244	28648.86	2572.628	2098.091	3054.265
#3	2590.886	28938.64	2521.159	2114.431	3065.929

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4914-21 Acquired: 12/13/2024 23:19:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHL2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2386170	.0090451	5.201434	.0175323	.0351884	78.99103
Stddev	.0027574	.0024790	.004558	.0007589	.0006382	.16094
%RSD	1.155591	27.40685	.0876258	4.328779	1.813752	.2037396
#1	.2388877	.0100068	5.200565	.0172378	.0359084	79.00950
#2	.2357343	.0062293	5.206364	.0169647	.0346921	78.82166
#3	.2412292	.0108990	5.197374	.0183943	.0349648	79.14194

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.448781	.0066215	.0103224	35.49738	.3814580	.0934069
Stddev	.003382	.0000915	.0000307	.06830	.0024434	.0004039
%RSD	.2334521	1.381765	.2975812	.1924126	.6405518	.4323718
#1	1.452611	.0065879	.0103211	35.54605	.3790117	.0929950
#2	1.446204	.0065516	.0102924	35.52679	.3838986	.0938022
#3	1.447529	.0067250	.0103538	35.41930	.3814637	.0934235

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4382008	161.4328	9.464192	20.85032	.2369083	-.006778
Stddev	.0007926	.0285	.008030	.07001	.0010269	.000812
%RSD	.1808673	.0176352	.0848451	.3357645	.4334632	11.97470
#1	.4381552	161.4029	9.473098	20.78998	.2366797	-.007132
#2	.4374321	161.4357	9.457506	20.83391	.2380303	-.007352
#3	.4390152	161.4596	9.461970	20.92708	.2360150	-.005849

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.110770	.1967776	1.932302	1.066860	F 10.02977	-.037748
Stddev	.350722	.0057655	.017794	.046349	.00080	.002017
%RSD	16.61582	2.929941	.9208815	4.344417	.0080067	5.342125
#1	2.140696	.2019272	1.928677	1.108451	10.03061	-.036850
#2	1.746044	.1978568	1.951630	1.075235	10.02901	-.036336
#3	2.445570	.1905488	1.916600	1.016895	10.02971	-.040058

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: P4914-21 Acquired: 12/13/2024 23:19:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHL2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0061473	2.655521	9.236097	.1880060	1.289658	-.035540
Stddev	.0001431	.003541	.084949	.0002622	.004252	.000222
%RSD	2.328545	.1333383	.9197504	.1394597	.3297337	.6255493
#1	.0059834	2.652572	9.234741	.1877572	1.291605	-.035765
#2	.0062475	2.659448	9.151834	.1882798	1.284781	-.035321
#3	.0062111	2.654542	9.321716	.1879809	1.292589	-.035533

Elem	Li6707
Units	ppm
Avg	.0540736
Stddev	.0023372
%RSD	4.322312
#1	.0529026
#2	.0525533
#3	.0567648

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2652.821	29718.84	2602.826	2183.978	3116.181
Stddev	10.446	197.56	10.365	11.901	9.307
%RSD	.3937618	.6647528	.3982107	.5449076	.2986625
#1	2655.066	29669.53	2593.491	2188.662	3116.774
#2	2641.436	29550.61	2613.980	2170.448	3106.591
#3	2661.962	29936.38	2601.007	2192.824	3125.176

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: CCV013 Acquired: 12/13/2024 23:27:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV013 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.056497	5.250369	24.64022	4.746287	4.802508	378.1120	9.863752
Stddev	.015471	.040082	.24751	.049670	.045826	10.9100	.283258
%RSD	.3059633	.7634079	1.004496	1.046494	.9542020	2.885379	2.871702
#1	5.062867	5.274480	24.82372	4.789161	4.829485	388.7317	10.14064
#2	5.067765	5.272526	24.73823	4.757843	4.828442	366.9333	9.57453
#3	5.038858	5.204100	24.35872	4.691859	4.749597	378.6709	9.87609

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4843936	2.449726	398.2550	15.18995	2.367229	14.99473	390.9599
Stddev	.0138752	.023961	11.3158	.23167	.025274	.40900	10.9551
%RSD	2.864446	.9780984	2.841339	1.525155	1.067665	2.727608	2.802114
#1	.4957667	2.467913	409.3221	15.45222	2.386078	15.40999	401.7185
#2	.4689341	2.458690	386.7059	15.10441	2.377100	14.59230	379.8183
#3	.4884801	2.422576	398.7371	15.01321	2.338509	14.98191	391.3429

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.96445	375.4596	2.457667	1.295597	377.9961	2.494265	13.99100
Stddev	.41481	10.5776	.028131	.015147	10.9877	.070170	.29028
%RSD	2.771950	2.817237	1.144604	1.169130	2.906838	2.813272	2.074752
#1	15.38078	386.3367	2.475805	1.313087	389.1800	2.560400	14.32354
#2	14.55119	365.2094	2.471935	1.286878	367.2156	2.420657	13.86111
#3	14.96136	374.8328	2.425262	1.286825	377.5927	2.501738	13.78834

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	142.3921	4.875371	4.676270	4.856183	4.805111	4.937665	4.960530
Stddev	4.2361	.054150	.130548	.045025	.050723	.142671	.059236
%RSD	2.974974	1.110677	2.791708	.9271740	1.055604	2.889433	1.194147
#1	146.5063	4.919110	4.788128	4.884789	4.837613	5.055833	5.000535
#2	138.0437	4.892197	4.532827	4.879476	4.831057	4.779172	4.988575
#3	142.6263	4.814806	4.707854	4.804282	4.746664	4.977990	4.892479

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: CCV013 Acquired: 12/13/2024 23:27:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV013 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	5.059184	4.694053	5.115730
Stddev	.145921	.130457	.134594
%RSD	2.884285	2.779196	2.630991
#1	5.200784	4.824711	5.248706
#2	4.909295	4.563798	4.979573
#3	5.067473	4.693651	5.118912

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1944.777	23666.10	2255.532	1631.059	2593.723
Stddev	13.283	294.94	56.709	23.374	21.034
%RSD	.6829963	1.246246	2.514239	1.433085	.8109395
#1	1936.121	23366.53	2208.218	1604.732	2577.709
#2	1938.139	23675.60	2318.393	1639.069	2585.916
#3	1960.070	23956.18	2239.984	1649.375	2617.544

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: CCB013 Acquired: 12/13/2024 23:35:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB013 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024772	.0005189	.0057614	-.001802	.0020482	-.005157
Stddev	.0006794	.0007304	.0022381	.000615	.0019845	.012261
%RSD	27.42518	140.7587	38.84678	34.10071	96.88927	237.7449
#1	.0017308	-.000032	.0076216	-.001093	.0018385	.008152
#2	.0030595	.000241	.0063850	-.002149	.0041293	-.015992
#3	.0026414	.001347	.0032776	-.002165	.0001769	-.007632

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000356	-.000035	-.000082	.0269601	-.001003	.0003739
Stddev	.000252	.000081	.000020	.0293760	.000345	.0004661
%RSD	70.82928	233.1841	24.90715	108.9609	34.37536	124.6629
#1	-.000182	-.000102	-.000059	.0567916	-.000830	.0000790
#2	-.000645	.000055	-.000093	-.001938	-.001399	.0009112
#3	-.000240	-.000057	-.000095	.026027	-.000778	.0001314

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005707	.0024633	.0024627	.0141942	-.000407	.0011259
Stddev	.0022191	.0559798	.0015725	.1118597	.000066	.0002648
%RSD	388.8626	2272.583	63.85303	788.0692	16.25625	23.51891
#1	.0011738	-.029076	.0026011	.1321061	-.000438	.0008206
#2	.0024258	.067097	.0039614	-.090426	-.000331	.0012633
#3	-.001888	-.030631	.0008255	.000902	-.000451	.0012937

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.599106	.0003231	.0041126	-.123604	-.002860	-.002799
Stddev	.608974	.0051145	.0050735	.048360	.001413	.001719
%RSD	38.08214	1583.039	123.3639	39.12478	49.39692	61.41232
#1	2.021589	.0056601	.0072982	-.166751	-.001462	-.004562
#2	1.874672	-.004535	-.001738	-.071332	-.002830	-.002709
#3	.901059	-.000156	.006778	-.132728	-.004286	-.001127

Reviewed By:Mohan
On:12/16/2024
12:49:43 AM
Inst Id :P5

Sample Name: CCB013 Acquired: 12/13/2024 23:35:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB013 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000089	-.003245	-.038766	.0003059	-.000749	-.000179
Stddev	.000179	.001973	.000451	.0006942	.003874	.000128
%RSD	201.8976	60.81283	1.163513	226.9197	517.4484	71.23538
#1	.000111	-.005508	-.038306	.0007269	-.003529	-.000136
#2	-.000143	-.001883	-.039207	-.000495	.003676	-.000323
#3	-.000234	-.002344	-.038785	.000686	-.002392	-.000079

Elem	Li6707
Units	ppm
Avg	F -.031663
Stddev	.002262
%RSD	7.145136
#1	-.031234
#2	-.034109
#3	-.029646

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2364.716	25937.99	2264.083	1921.503	3271.525
Stddev	5.462	23.60	11.324	4.442	7.039
%RSD	.2309969	.0909907	.5001420	.2311848	.2151540
#1	2362.197	25951.85	2253.143	1918.253	3266.643
#2	2360.967	25910.74	2263.350	1919.691	3268.338
#3	2370.983	25951.38	2275.755	1926.565	3279.594

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

Prep Standard - Chemical Standard Summary

Order ID : P4932

Test : Metals CLP Full

Prepbatch ID : PB165171,

Sequence ID/Qc Batch ID: LB133698,LB133949,

Standard ID :
MP83122,MP83134,MP83136,MP83137,MP83138,MP83139,MP83140,MP83141,MP83142,MP83143,MP83144,MP831
45,MP83146,MP83147,MP83148,MP83149,MP83500,MP83501,MP83502,MP83503,MP83504,MP83505,MP83506,MP
83507,MP83508,MP83509,MP83510,MP83511,MP83513,MP83514,

Chemical ID :
M5130,M5218,M5223,M5289,M5295,M5296,M5390,M5393,M5395,M5429,M5473,M5476,M5496,M5497,M5498,M5513
,M5515,M5519,M5634,M5658,M5697,M5698,M5751,M5768,M5769,M5798,M5799,M5800,M5801,M5802,M5806,M581
5,M5816,M5817,M5818,M5819,M5820,M5875,M5959,M5960,M5962,M5970,M5976,M5978,M5982,M5984,M5985,M59
90,M5999,M6021,M6023,M6025,M6028,M6030,M6033,M6111,M6116,M6117,M6118,M6120,M6121,M6126,W3112,

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
169	1:1HNO3	MP83122	11/07/2024	12/06/2024	Janvi Patel	None	None	Sarabjit Jaswal 11/07/2024

FROM 1000.00000ml of M6116 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
902	ICP AES CAL BLK (SO/ICB/CCB)	MP83134	10/30/2024	12/06/2024	Kareem Khairalla	None	None	Mohan Bera 11/08/2024

FROM 125.00000ml of M6111 + 2350.00000ml of W3112 + 25.00000ml of M6117 = 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
2480	ICP AES STD 6 ISM01.3	MP83136	10/30/2024	12/06/2024	Kareem Khairalla	None	None	Mohan Bera 11/08/2024

FROM 4.00000ml of M5289 + 4.00000ml of M5498 + 4.00000ml of M5515 + 4.00000ml of M5768 + 4.00000ml of M5806 + 30.00000ml of MP83134 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1004	ICPAES ISM01.2 (S5)	MP83137	10/30/2024	12/06/2024	Kareem Khairalla	None	None	Mohan Bera 11/08/2024

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 M5698 + 12.50000ml of M5806 + 12.50000ml of M5819 + 13.75000ml of M5751 + 14.50000ml of M5515 + 14.50000ml of M5658 + 14.50000ml of M6033 + 2.00000ml of M5513 + 22.50000ml of M5498 + 22.50000ml of M5768 + 5.00000ml of M5296 + 5.00000ml of M5395 + 5.00000ml of M5802 + 5.00000ml of M5818 + 5.00000ml of M5875 + 303.50000ml of MP83134 = Final Quantity: 500.000 ml

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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
1005	ICPAES ISM01.2(S4)	MP83138	10/30/2024	12/06/2024	Kareem Khairalla	None	None	Mohan Bera 11/08/2024

FROM 250.00000ml of MP83134 + 250.00000ml of MP83137 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1007	ICPAES ISM01.2(S3)	MP83139	10/30/2024	12/06/2024	Kareem Khairalla	None	None	Mohan Bera 11/08/2024

FROM 25.00000ml of MP83137 + 75.00000ml of MP83134 = Final Quantity: 100.000 ml

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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
1008	ICPAES ISM01.2(S2)	MP83140	10/30/2024	12/06/2024	Kareem Khairalla	None	None	Mohan Bera 11/08/2024

FROM 12.50000ml of MP83137 + 87.50000ml of MP83134 = 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.)	MP83141	10/30/2024	12/06/2024	Kareem Khairalla	None	None	Mohan Bera 11/08/2024

FROM 0.02000ml of M5815 + 0.03000ml of M5429 + 0.10000ml of M5798 + 0.10000ml of M6028 + 0.14000ml of M5799 + 0.20000ml of M5476 + 0.20000ml of M5515 + 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 M5698 + 0.40000ml of M6033 + 0.50000ml of M5751 + 0.50000ml of M6023 + 0.70000ml of M5962 + 0.80000ml of M5960 + 1.00000ml of M5800 + 1.00000ml of M6021 + 1.20000ml of M5802 + 1.20000ml of M5819 + 10.00000ml of M5498 + 10.00000ml of M5519 + 10.00000ml of M5768 + 10.00000ml of M5806 + 10.00000ml of M5818 + 2.00000ml of M5978 + 4.00000ml of M5390 + 34.24000ml of MP83134 = 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	MP83142	10/30/2024	12/06/2024	Kareem Khairalla	None	None	Mohan Bera 11/08/2024

FROM 0.50000ml of MP83141 + 99.50000ml of MP83134 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2054	ICV-ICPAES	MP83143	10/30/2024	12/06/2024	Kareem Khairalla	None	None	Mohan Bera 11/08/2024

FROM 0.50000ml of M5218 + 0.50000ml of M5816 + 0.50000ml of M5820 + 0.50000ml of M5970 + 0.50000ml of M5982 + 10.00000ml of M5295 + 87.50000ml of MP83134 = Final Quantity: 100.000 ml

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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
904	ICP AES ICSA SOLN	MP83144	10/30/2024	12/06/2024	Kareem Khairalla	None	None	Mohan Bera 11/08/2024

FROM 25.00000ml of M5130 + 200.00000ml of MP83134 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
905	ICP AES ICSAB SOLN	MP83145	10/30/2024	12/06/2024	Kareem Khairalla	None	None	Mohan Bera 11/08/2024

FROM 25.00000ml of M5130 + 25.00000ml of M5223 + 200.00000ml of MP83134 = Final Quantity: 250.000 ml

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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
1119	ICPAES ISM01.2(CCV)	MP83146	10/30/2024	12/06/2024	Kareem Khairalla	None	None	Mohan Bera 11/08/2024

FROM 0.75000ml of M5498 + 0.75000ml of M5768 + 1.22500ml of M6033 + 1.25000ml of M5515 + 1.25000ml of M5806 + 19.77500ml of MP83134 + 25.00000ml of MP83137 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
921	ICPAES SPIKE SOL#6	MP83147	10/30/2024	12/06/2024	Kareem Khairalla	None	None	Mohan Bera 11/08/2024

FROM 2.50000ml of M5962 + 50.00000ml of M5990 + 50.00000ml of M5999 + 147.50000ml of MP83134 = Final Quantity: 250.000 ml

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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
919	ICP AES INTERNAL STD	MP83148	10/30/2024	12/06/2024	Kareem Khairalla	None	None	Mohan Bera 11/08/2024

FROM 1.00000ml of M5984 + 10.00000ml of M5985 + 1969.00000ml of W3112 + 20.00000ml of M6117 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
903	ICP AES RINSE SOLN	MP83149	10/30/2024	12/06/2024	Kareem Khairalla	None	None	Mohan Bera 11/08/2024

FROM 200.00000ml of M6117 + 9800.00000ml of W3112 = Final Quantity: 10000.000 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
902	ICP AES CAL BLK (SO/ICB/CCB)	MP83500	12/06/2024	01/06/2025	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
2480	ICP AES STD 6 ISM01.3	MP83501	12/06/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 4.00000ml of M5289 + 4.00000ml of M5498 + 4.00000ml of M5515 + 4.00000ml of M5768 + 4.00000ml of M5806 + 30.00000ml of MP83500 = 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)	MP83502	12/06/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 0.25000ml of M5798 + 0.50000ml of M5429 + 0.50000ml of M5473 + 0.50000ml of M5815 + 0.50000ml of M5817 + 12.50000ml of M5519 + 12.50000ml of M5698 + 12.50000ml of M5806 + 12.50000ml of M5819 + 13.75000ml of M5697 + 14.50000ml of M5496 + 14.50000ml of M5515 + 14.50000ml of M5658 + 2.00000ml of M5513 + 22.50000ml of M5497 + 22.50000ml of M5768 + 5.00000ml of M5296 + 5.00000ml of M5393 + 5.00000ml of M5802 + 5.00000ml of M5818 + 5.00000ml of M5875 + 303.50000ml of MP83500 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1005	ICPAES ISM01.2(S4)	MP83503	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 250.00000ml of MP83500 + 250.00000ml of MP83502 = 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)	MP83504	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 25.00000ml of MP83502 + 75.00000ml of MP83500 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1008	ICPAES ISM01.2(S2)	MP83505	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 12.50000ml of MP83502 + 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
994	ICPAES ISM01.2 S1 (CONC.)	MP83506	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 0.02000ml of M5815 + 0.03000ml of M5429 + 0.10000ml of M5798 + 0.10000ml of M6028 + 0.14000ml of M5799 + 0.20000ml of M5473 + 0.20000ml of M5515 + 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 M5698 + 0.40000ml of M5496 + 0.50000ml of M5697 + 0.50000ml of M6023 + 0.70000ml of M5962 + 0.80000ml of M5960 + 1.00000ml of M5800 + 1.00000ml of M6021 + 1.20000ml of M5802 + 1.20000ml of M5819 + 10.00000ml of M5498 + 10.00000ml of M5519 + 10.00000ml of M5769 + 10.00000ml of M5806 + 10.00000ml of M5818 + 2.00000ml of M5978 + 4.00000ml of M5390 + 34.24000ml of MP83500 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1003	ICPAES ISM01.2 S1	MP83507	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 0.50000ml of MP83506 + 99.50000ml 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
2054	ICV-ICPAES	MP83508	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 0.50000ml of M5218 + 0.50000ml of M5816 + 0.50000ml of M5820 + 0.50000ml of M5970 + 0.50000ml of M5982 + 10.00000ml of M5295 + 87.50000ml of MP83500 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
904	ICP AES ICSA SOLN	MP83509	12/09/2024	01/06/2025	Kareem Khairalla	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 12/09/2024

FROM 10.00000ml of M5130 + 90.00000ml 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
905	ICP AES ICSAB SOLN	MP83510	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 10.00000ml of M5130 + 10.00000ml of M5223 + 80.00000ml of MP83500 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1119	ICPAES ISM01.2(CCV)	MP83511	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 0.75000ml of M5497 + 0.75000ml of M5769 + 1.22500ml of M5496 + 1.25000ml of M5515 + 1.25000ml of M5806 + 19.77500ml of MP83500 + 25.00000ml of MP83502 = 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	MP83513	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

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
513	RINSE SOLN	MP83514	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

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	12/28/2024	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	12/28/2024	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.	57056 / Ba, 1000 PPM, 125 ml	072122	07/21/2025	08/07/2024 / jaswal	09/18/2022 / bin	M5390

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 #
Inorganic Ventures	CLPP-CAL-3 / CLP CAL SOLUTION #3, 125mL	T2-MEB714159	01/13/2027	01/30/2024 / bin	09/19/2022 / bin	M5395

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.	57138 / Sr, 10000 PPM, 125 ml	082922	08/29/2025	03/16/2023 / jaswal	03/16/2023 / jaswal	M5473

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	08/09/2025	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.	58120 / Ca, 10000 PPM, 500 ml	031523	03/15/2026	08/15/2023 / jaswal	03/17/2023 / bin	M5498

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57182 / Pb, 10000 PPM, 125 ml	061522	06/15/2025	03/19/2023 / bin	03/17/2023 / bin	M5513

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58126 / Fe, 10000 PPM, 500 ml	092122	09/21/2025	08/01/2024 / Jaswal	03/17/2023 / bin	M5515

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57119 / Potassium (K) 10,000PPM	120822	12/08/2025	01/08/2024 / bin	03/17/2023 / bin	M5519

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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	02/03/2025	04/18/2024 / jaswal	08/03/2022 / Al-Terek	M5634

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.	58025 / Mn, 1000 PPM, 500 ml	102623	10/26/2026	04/18/2024 / jaswal	10/27/2023 / jaswal	M5698

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	071723	07/17/2026	10/01/2024 / Jaswal	08/25/2023 / jaswal	M5751

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	091823	09/18/2026	01/08/2024 / bin	01/03/2024 / bin	M5768

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	091823	09/18/2026	05/24/2024 / Jaswal	01/03/2024 / bin	M5769

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57004 / Be, 1000 PPM, 125 ml	102523	10/25/2026	02/09/2024 / bin	02/09/2024 / bin	M5798

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57050 / Sn, 1000 PPM, 125 ml	071123	07/11/2026	02/09/2024 / bin	02/09/2024 / bin	M5799

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57027 / CO, 1000 PPM, 125 ml	091923	09/19/2026	05/31/2024 / bin	02/09/2024 / bin	M5800

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57033 / As, 1000 PPM, 125 ml	111323	11/13/2026	02/09/2024 / bin	02/09/2024 / bin	M5801

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57051 / Sb, 1000 PPM, 125 ml	120523	12/05/2026	08/07/2024 / jaswal	01/03/2024 / jaswal	M5802

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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.	57014 / Si, 1000 PPM, 125 ml	122023	12/20/2026	03/06/2024 / jaswal	02/09/2024 / jaswal	M5818

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58030 / Zinc, Zn, 500 ml, 1000 PPM	111623	11/16/2026	03/20/2024 / jaswal	02/09/2024 / jaswal	M5819

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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	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	07/03/2024 / kareem	06/11/2024 / kareem	M5960

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57034 / Se, 1000 PPM, 125 ml	060624	06/06/2027	07/02/2024 / Jaswal	06/14/2024 / Jaswal	M5962

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57003 / Li, 1000 PPM, 125 ml	061224	06/21/2027	07/01/2024 / Jaswal	07/01/2024 / Jaswal	M5970

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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	08/07/2024 / jaswal	02/22/2024 / Jaswal	M5976

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGTI1-1 / TITANIUM 125mL 1000ug/mL	T2-TI719972	06/17/2027	08/07/2024 / jaswal	02/22/2024 / Jaswal	M5978

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57038 / Sr, 1000 PPM, 125 ml	031524	03/15/2027	07/01/2024 / Jaswal	06/11/2024 / Jaswal	M5982

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	08/05/2024 / kareem	06/14/2024 / Jaswal	M5984

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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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-SPK-1 / SOIL/WATER SPIKE SOLN 1, 125mL	T2-MEB721963	07/27/2027	09/04/2024 / Jaswal	02/22/2024 / kareem	M5999

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57023 / V, 1000 PPM, 125 ml	062424	06/24/2027	09/28/2024 / jaswal	08/05/2024 / Jaswal	M6021

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57081 / Tl, 1000 PPM, 125 ml	0624724	06/27/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6023

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57082 / Pb, 1000 PPM, 125 ml	061224	11/09/2026	08/05/2024 / Jaswal	08/05/2024 / Jaswal	M6025

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57048 / Cd, 1000 PPM, 125 ml	070124	07/01/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6028

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57047 / Ag, 1000 PPM, 125 ml	122823	12/28/2026	08/05/2024 / kareem	08/05/2024 / Jaswal	M6030

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Al, 10000 PPM, 500 ml	011623	01/16/2026	08/07/2024 / Jaswal	01/03/2024 / Jaswal	M6033

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22F0762009	05/09/2027	11/04/2024 / Eman	09/29/2024 / Janvi	M6111

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24B1362001	05/03/2025	11/04/2024 / Janvi	09/29/2024 / Eman	M6116

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24B1362001	05/06/2025	11/06/2024 / Janvi	09/29/2024 / Eman	M6117

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)	22E1662006	05/09/2025	11/09/2024 / Janvi	10/09/2024 / Janvi	M6118

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)	23I0662003	05/13/2025	11/13/2024 / Eman	10/13/2024 / Eman	M6120

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-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

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Certificate of Analysis

R: 02/22/24 M5986 M5987, M5988, M5989-M5990

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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:

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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

R 8/15/24

M6028

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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CERTIFIED WEIGHT REPORT:

Part Number:	**57048**		**Lot #**		
Lot Number:	**070124**	**Solvent:**	24002546	Nitric Acid	
Description:	**Cadmium (Cd)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	070127				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty		

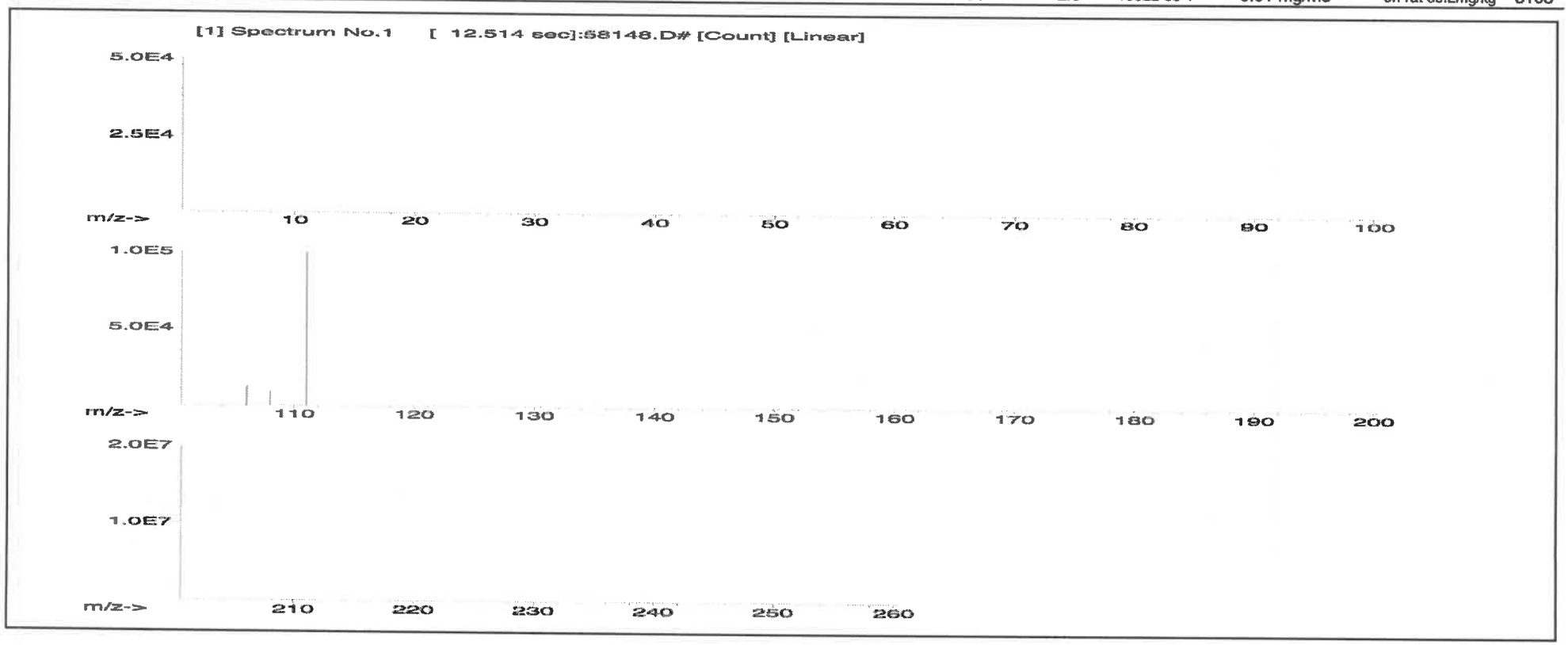
Aleah O'Brady

Formulated By:	Aleah O'Brady	070124

Pedro Rentas

Reviewed By:	Pedro L. Rentas	070124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cadmium nitrate tetrahydrate (Cd)	IN024	CDM092021A1	1000	99.999	0.10	36.5	5.4797	5.4804	**1000.1**	**2.0**	10022-68-1	0.01 mg/m3	orl-rat 60.2mg/kg	3108



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	T	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

M5296 OP: 09/19/2022 BH

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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:	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

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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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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

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Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

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X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

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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

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

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: _____

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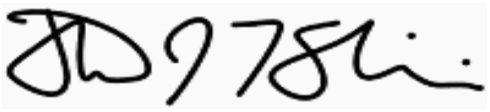
12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

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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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-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 $u_{char\ i}$

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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

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 13, 2022

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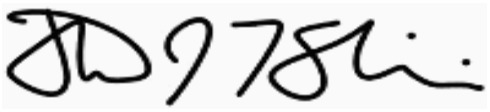
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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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

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ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
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N/A

6.0 INTENDED USE

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9.0 HOMOGENEITY

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

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January 13, 2022

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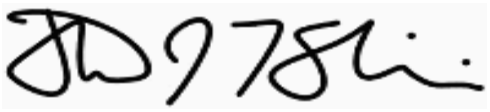
12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

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

748

CERTIFIED WEIGHT REPORT:

Part Number: 57182
Lot Number: 110923
Description: Lead (Pb)

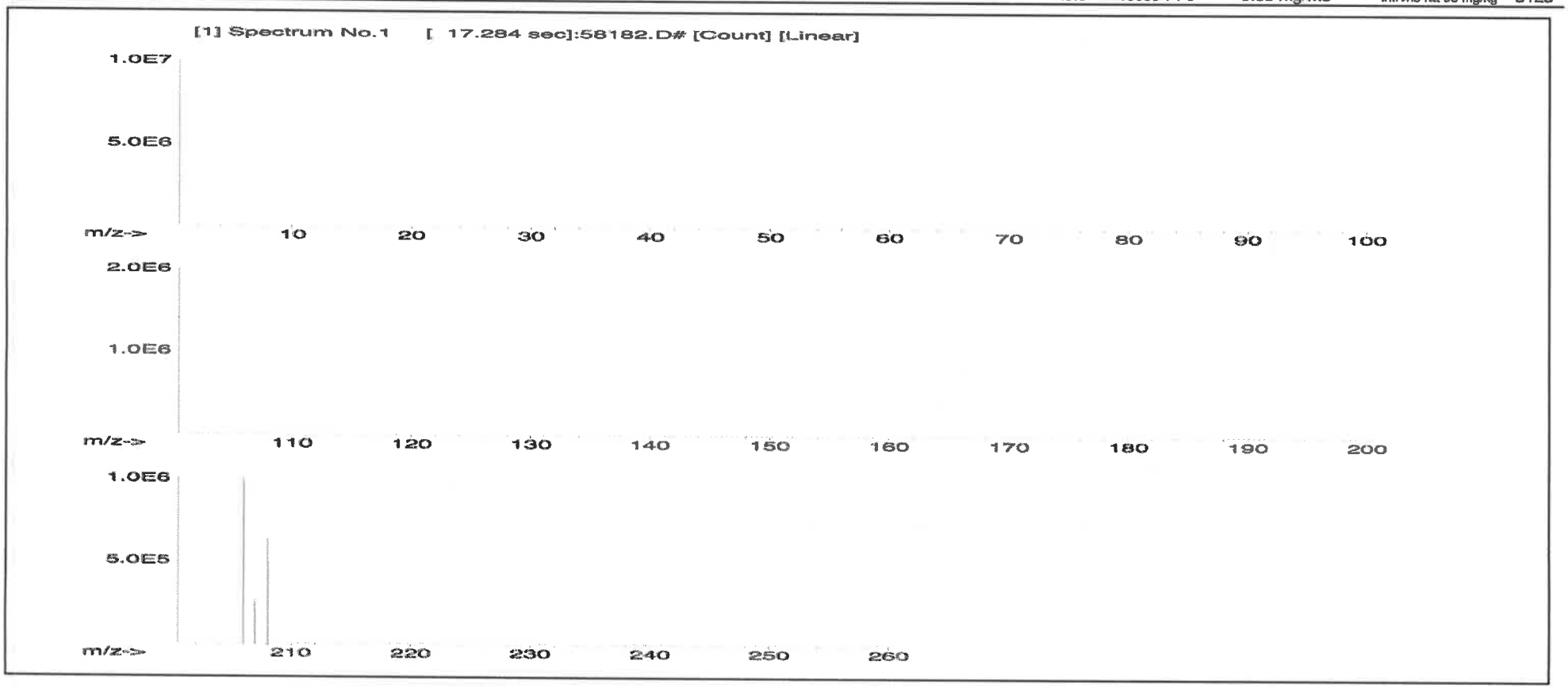
Expiration Date: 110926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

	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



749

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.

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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



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)

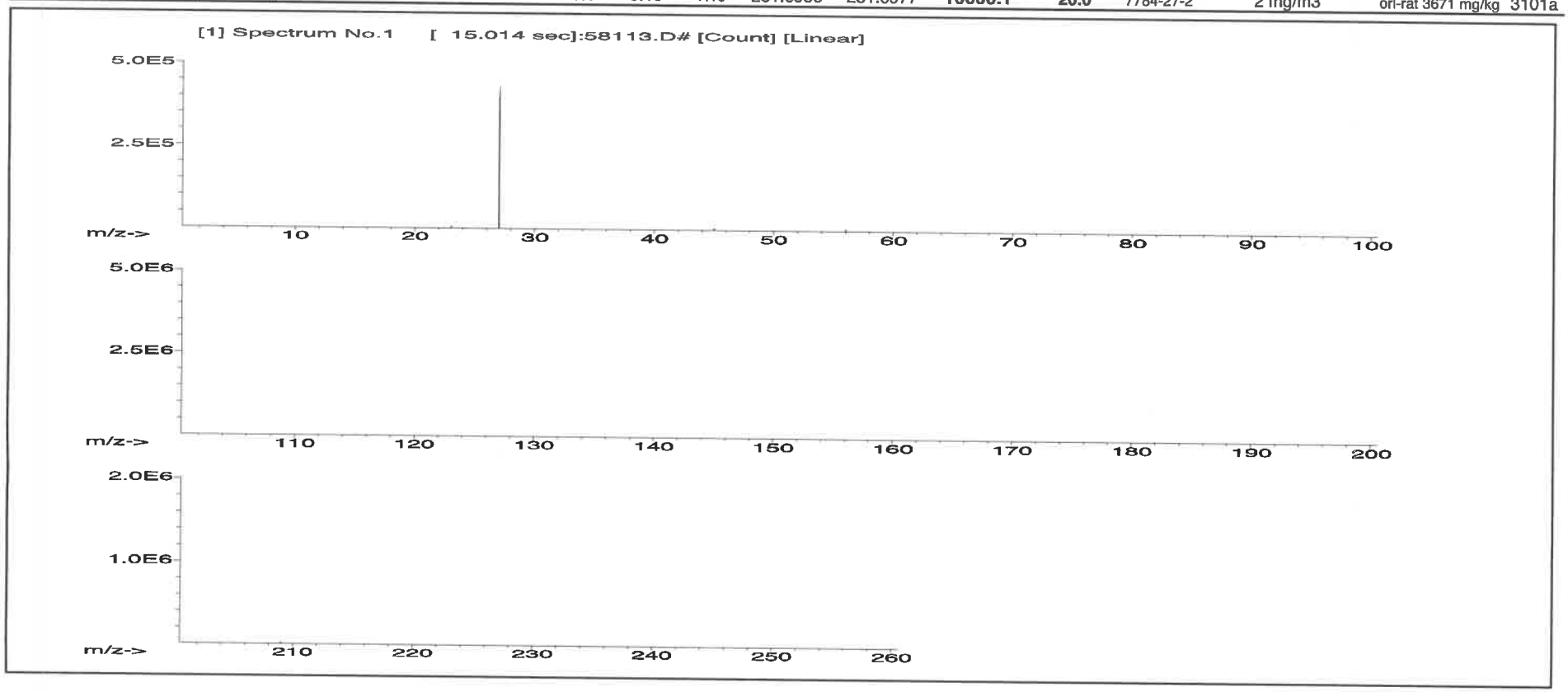
Expiration Date: 070625
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

	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

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R: 09/08/22 (BH)

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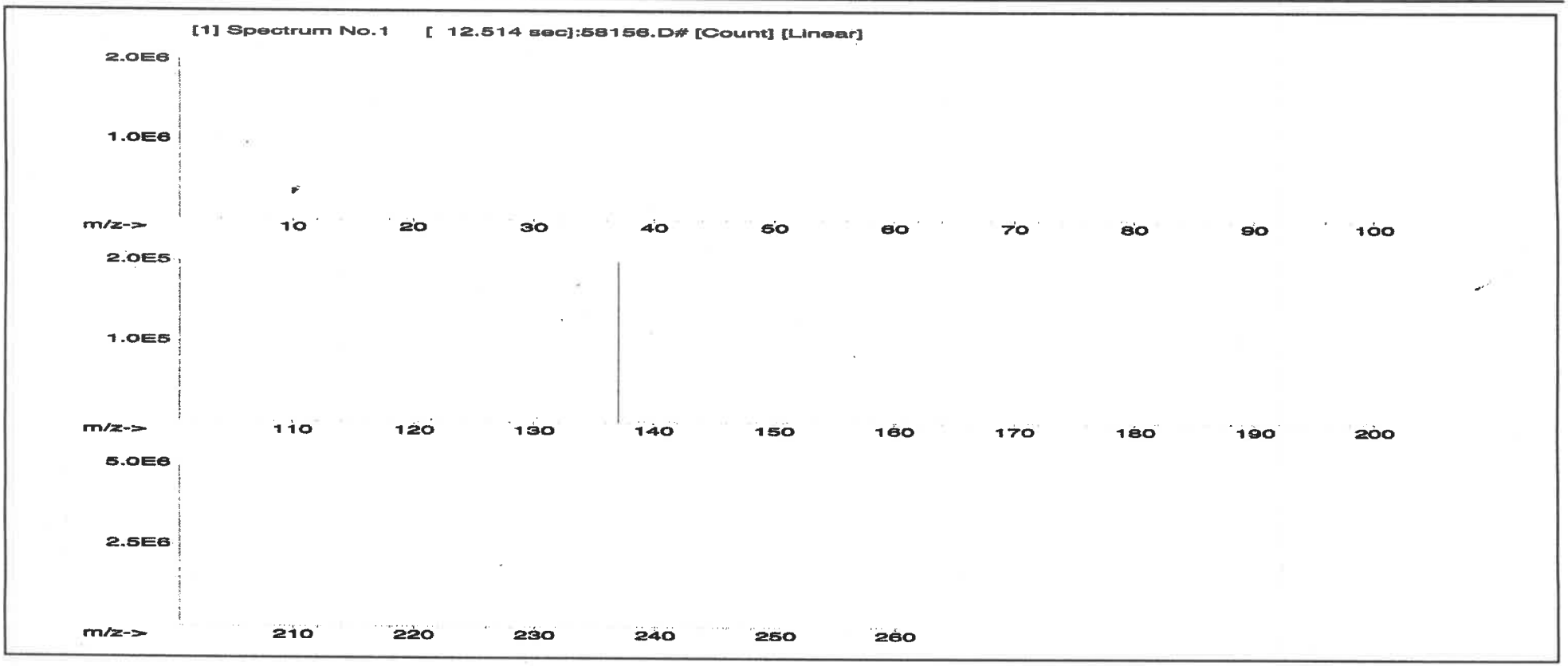
CERTIFIED WEIGHT REPORT:

Part Number:	**57056**		**Lot #**		
Lot Number:	**072122**	**Solvent:**	20510011	Nitric Acid	
Description:	**Barium (Ba)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	072125				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Giovanni Esposito

Formulated By:	Giovanni Esposito	072122
Reviewed By:	Pedro L. Rentas	072122

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Barium nitrate (Ba)	IN023	BAD022019A1	1000	99.999	0.10	52.3	3.82417	3.82426	**1000.0**	**2.0**	10022-31-8	0.5 mg/m3	orl-rat 355 mg/kg	3104a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	T	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5429 R1 01/26/23 BH

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CERTIFIED WEIGHT REPORT:

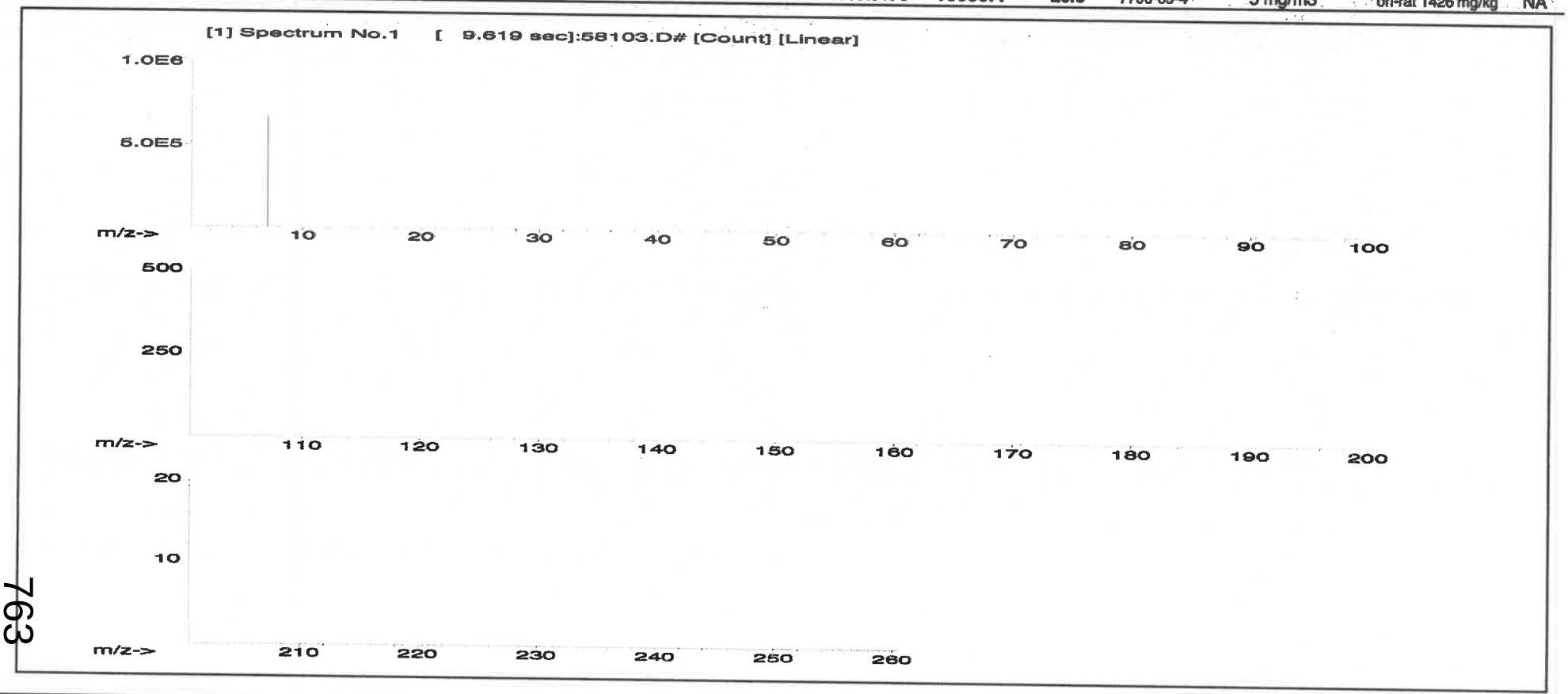
Part Number: 57103
Lot Number: 070622
Description: Lithium (Li)

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



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	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:

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).
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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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IN5497 - IN5498 R: 03/17/23 BH

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CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 031523
Description: Calcium (Ca)

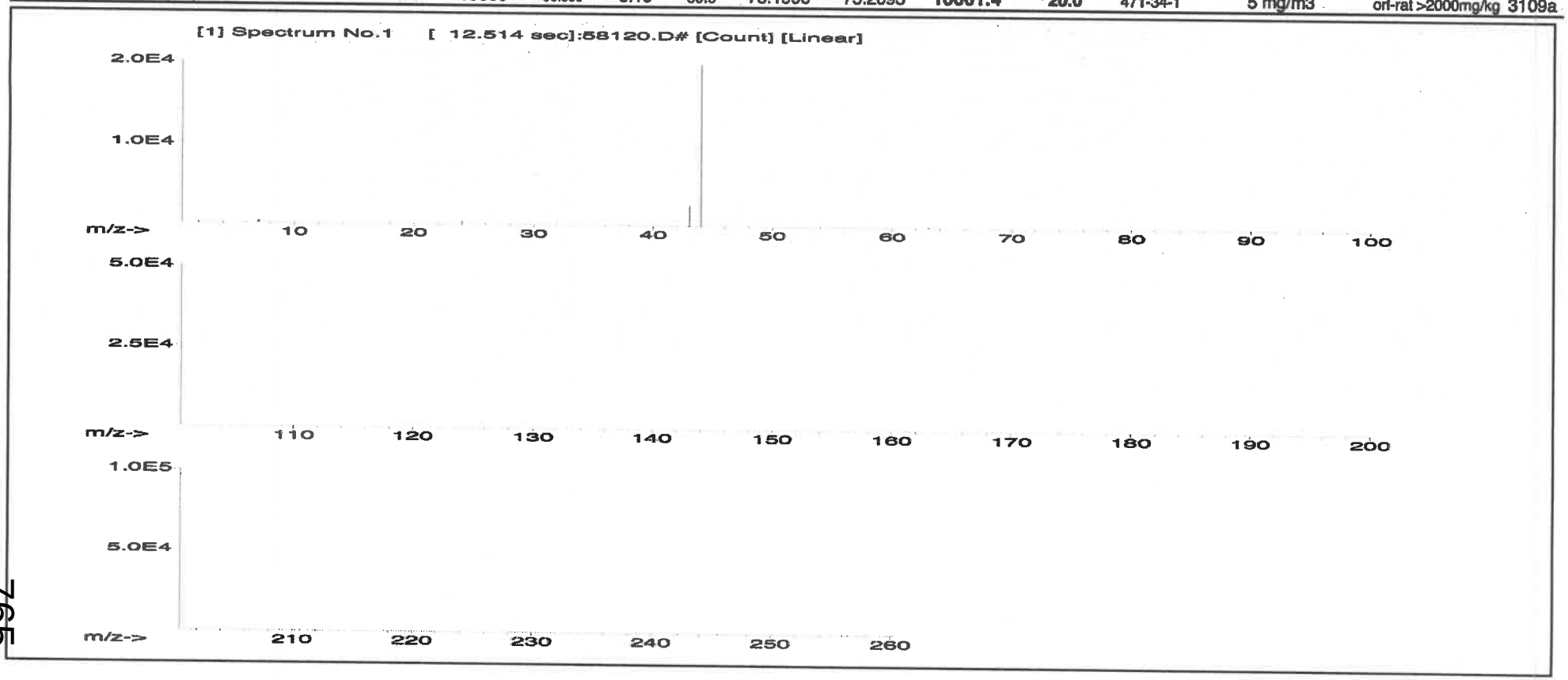
Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41 ± 0.058 Flask Uncertainty

	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



765

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	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.

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CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 031523
Description: Calcium (Ca)

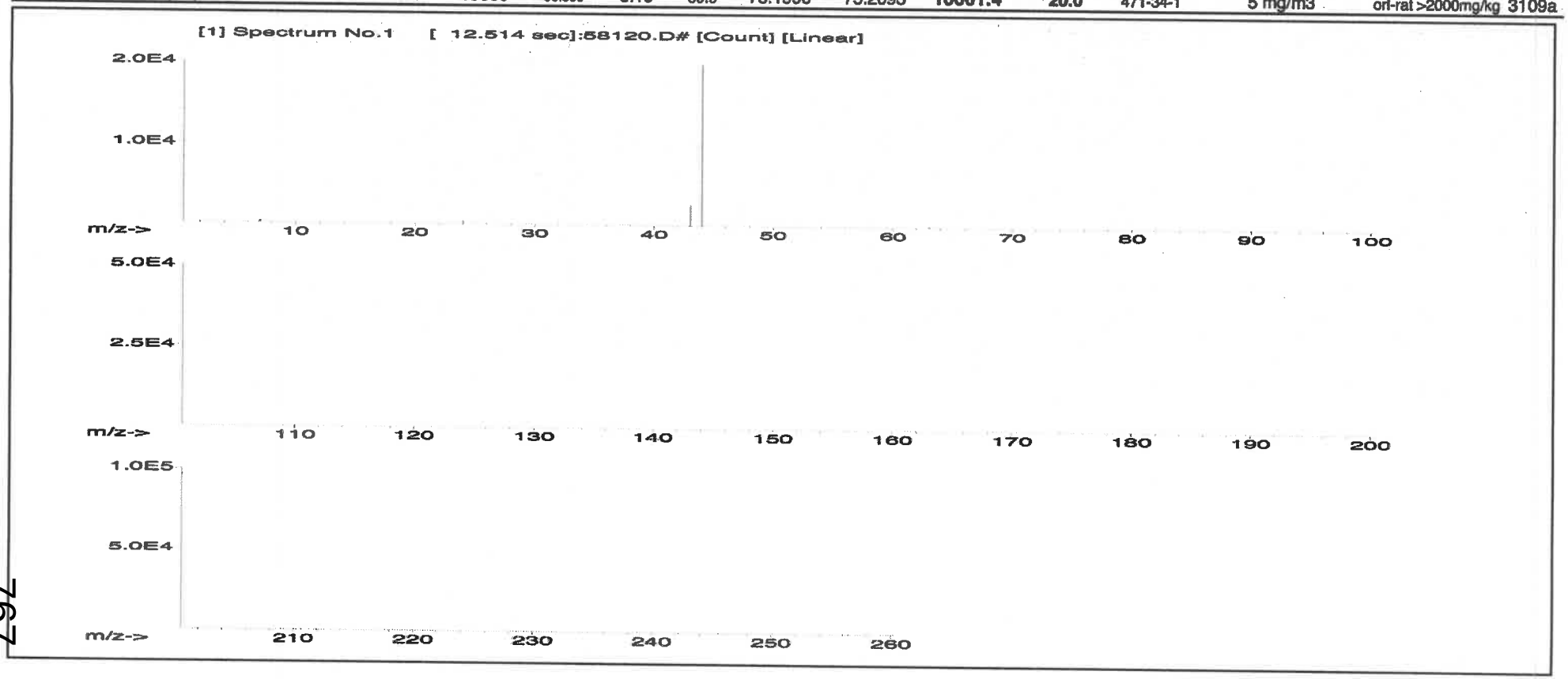
Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41 ± 0.058 Flask Uncertainty

	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



767

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.
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MS513 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

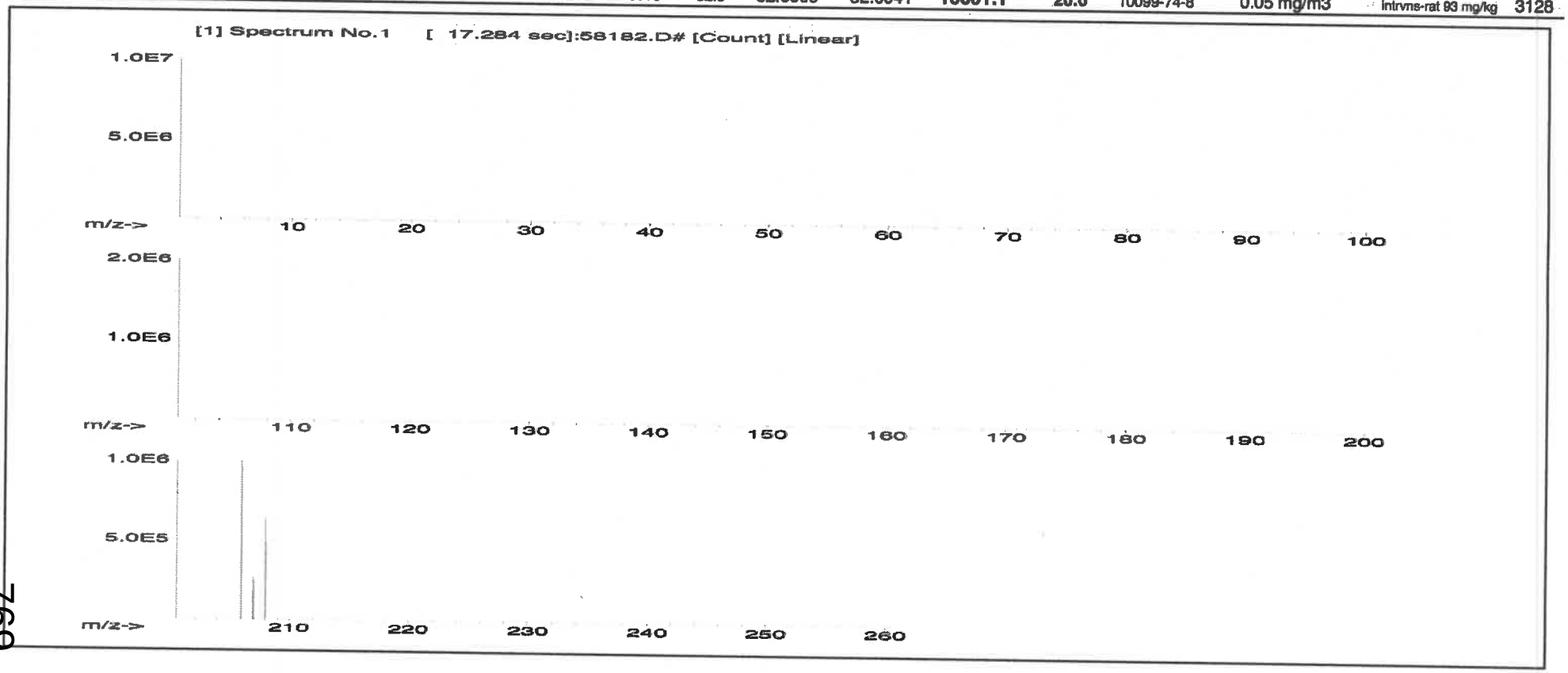
	Lot #		
Solvent:	20510011	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

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



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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.

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M5514 , M5515 R: 03/17/23

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771

CERTIFIED WEIGHT REPORT:

Part Number: 58126
Lot Number: 092122
Description: Iron (Fe)

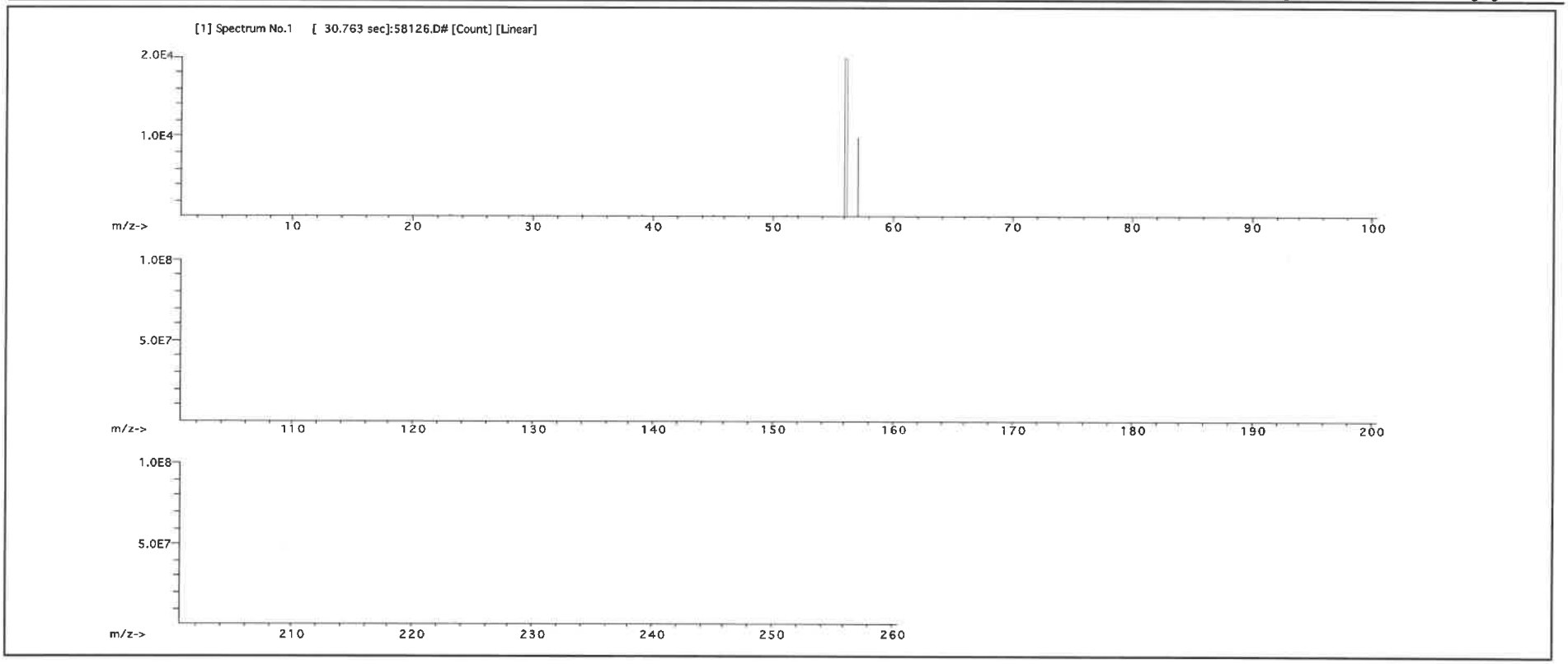
Expiration Date: 092125
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 5000.1

	Lot #		
Solvent:	20510011	Nitric Acid	
7.0%	350.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.12	Flask Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	092122
Reviewed By:	Pedro L. Rentas	092122

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Iron (Fe)	IN346	2224912-500	10000	99.995	0.10	100.0	50.0034	50.0111	**10001.5**	**20.0**	7439-89-6	5 mg/m3	orl-rat 7500mg/kg	3126a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.10	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.10	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.05	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.10	Ge	<0.10	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.05
B	<0.02	Cu	<0.10	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

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).

772

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M5519. M5520 (BH) R:03/17/23

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773

CERTIFIED WEIGHT REPORT:

Part Number: 58119
Lot Number: 120822
Description: Potassium (K)

Expiration Date: 120825
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

Weight shown below was diluted to (mL): 3000.4

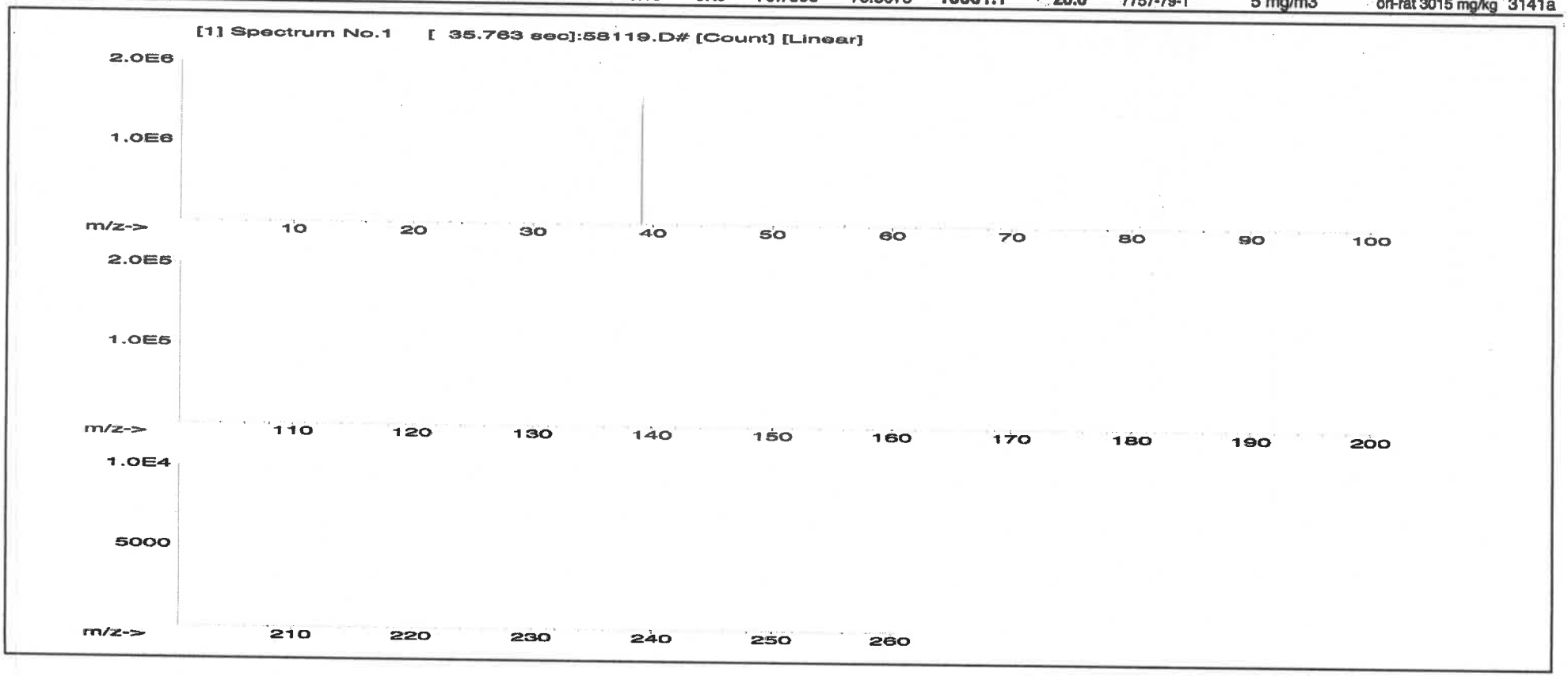
	Lot #		
Solvent:	20510011	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.06 Flask Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	120822
Reviewed By:	Pedro L. Rentas	120822

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium nitrate (K)	IN034	KD022021A1	10000	99.999	0.10	37.6	79.7990	79.8075	**10001.1**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3015 mg/kg	3141a



774

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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CORCO CHEMICAL CORPORATION

Manufacturers of ACS Reagents and Semiconductor Grade Chemicals

CERTIFICATE OF ANALYSIS

Date: 8/3/2022 MS631 MS632 MS633 MS634 **Lot No 820803**

Hydrogen Peroxide, ACS
Reagent Grade

TEST	MAXIMUM LIMITS	RESULT
Appearance	Colorless and free from suspended matter or sediment	Pass
Assay	29-32%	31.4%
Color (APHA)	10	5
Residue after Evaporation	0.002%	.0001%
Titratable Acid	0.0006 meq/g	< .0006 meq/g
Chloride (Cl)	2 ppm	< 1 ppm
Nitrate (NO_3)	2 ppm	< 1 ppm
Phosphate	2 ppm	< 1 ppm
Sulfate (SO_4)	5 ppm	< .5 ppm
Ammonium (NH_4)	5 ppm	< 1 ppm
Heavy Metals (as Pb)	1 ppm	< .1 ppm
Iron (Fe)	0.5 ppm	< .1 ppm
Sodium Stannate	200 – 300 ppb	Pass

***Our Hydrogen Peroxide is considered un-stabilized because it is very slightly stabilized with Sodium Stannate, 500 ppb maximum, just for safety purposes.

Date of MFG: 8/2022
Retest date: 8/2024

Gina M. Rambo
Office Manager

CORCO CHEMICAL CORPORATION. 299 CEDAR LANE. FAIRLESS HILLS, PA 19030. 215-295-5006. FAX 215-295-0781

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M5658 R ! 8/25/23

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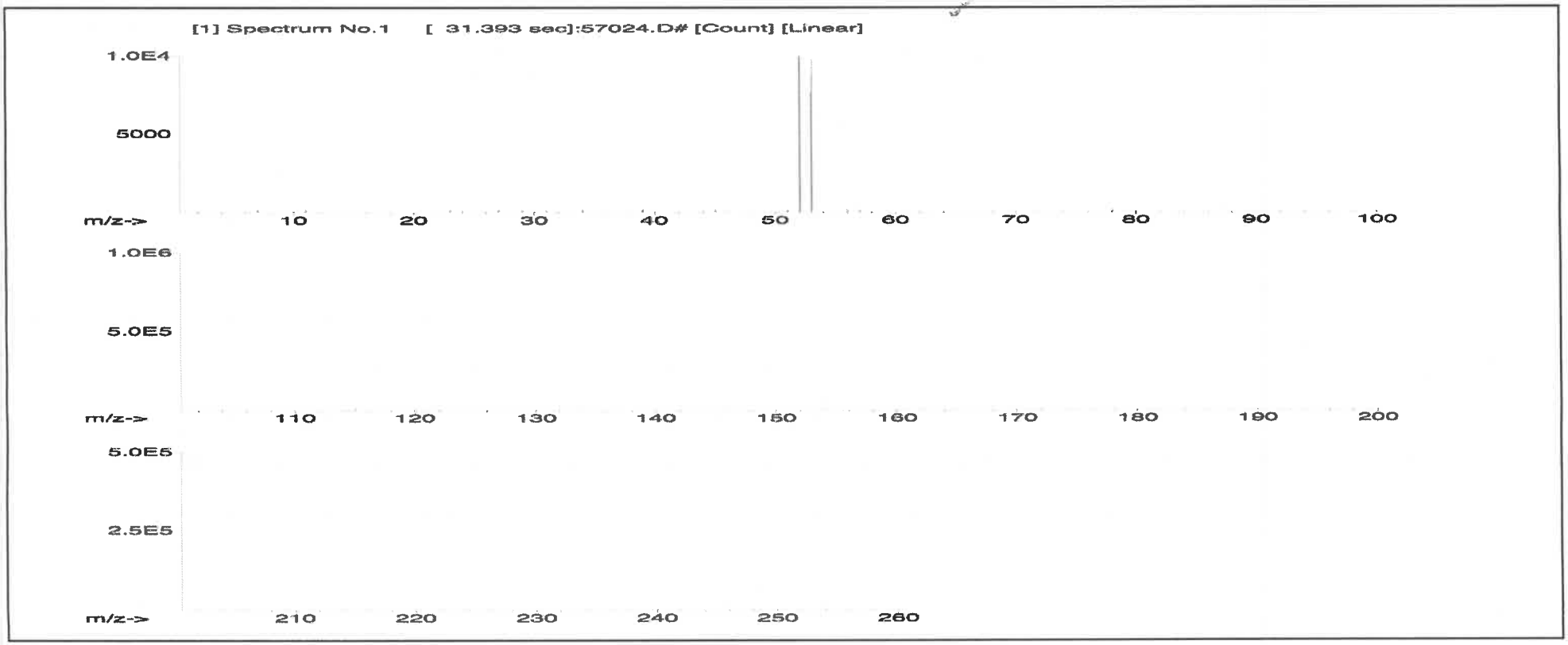
977

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



777

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.
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M5697 R: 10/27/23

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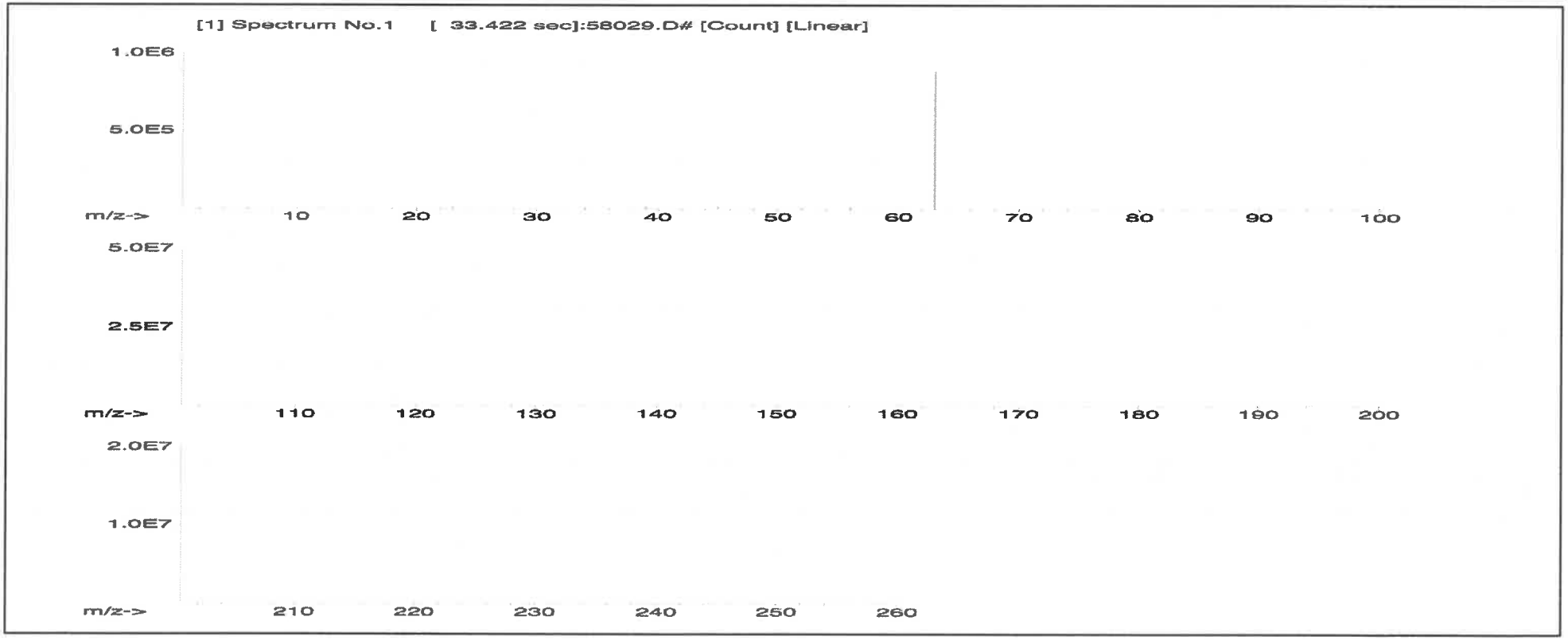
7778

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



779

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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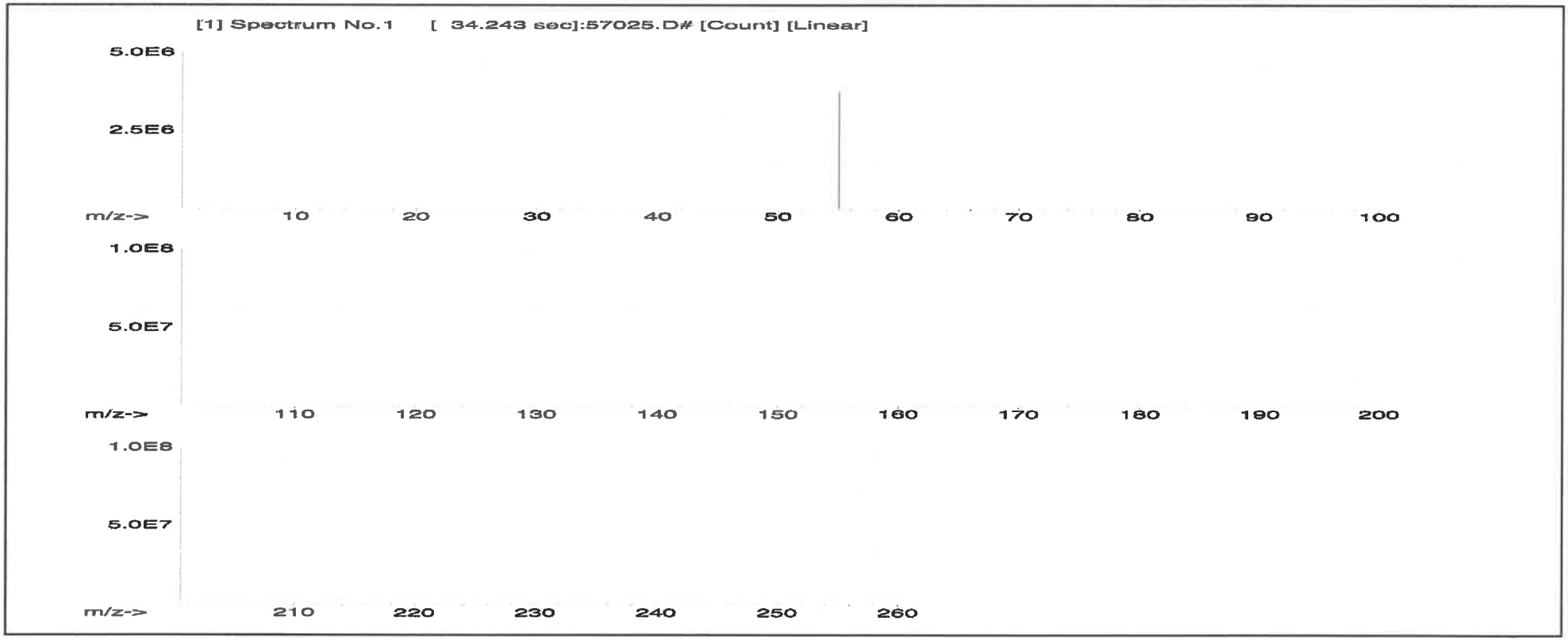
780

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58025**	24002546	Nitric Acid	
Lot Number:	**102623**			
Description:	**Manganese (Mn)**			
		2.0%	60.0 (mL)	Nitric Acid
Expiration Date:	102626			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	3000.41	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	102623
Reviewed By:	Pedro L. Rentas	102623

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Manganese(II) nitrate tetrahydrate (Mn)	58125	071123	0.1000	300.0	0.084	1000	10000.1	**1000.0**	**2.1**	20694-39-7	5 mg/m3	orl-rat >300mg/kg	3132



781

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	T	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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R: 8/25/23 M5751

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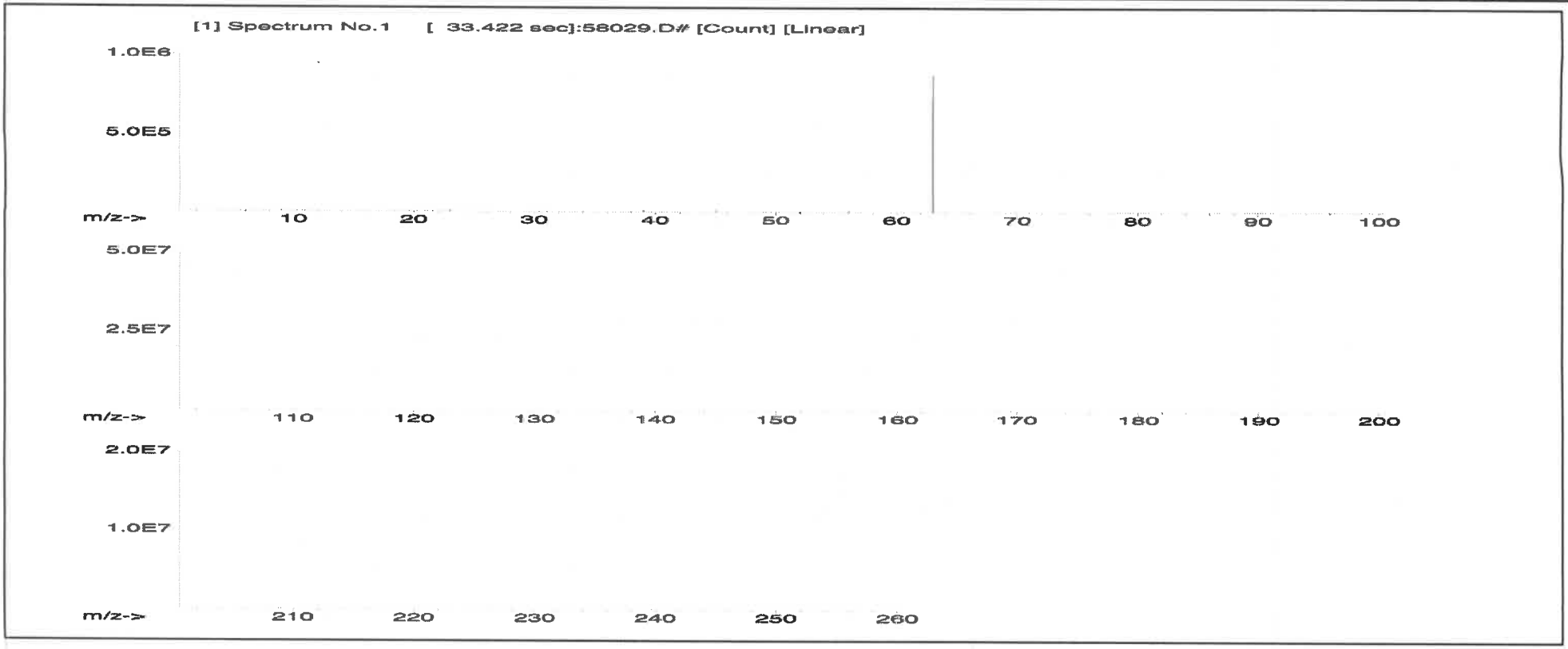
782

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



783

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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M5768 M5769 (BP) R:1/3/24

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784

CERTIFIED WEIGHT REPORT:

Part Number: 58112
Lot Number: 091823
Description: Magnesium (Mg)

Expiration Date: 091826
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

M5768, M5769 (BP) R: 1/3/24

Weight shown below was diluted to (mL): 2000.02 ± 0.058 Flask Uncertainty

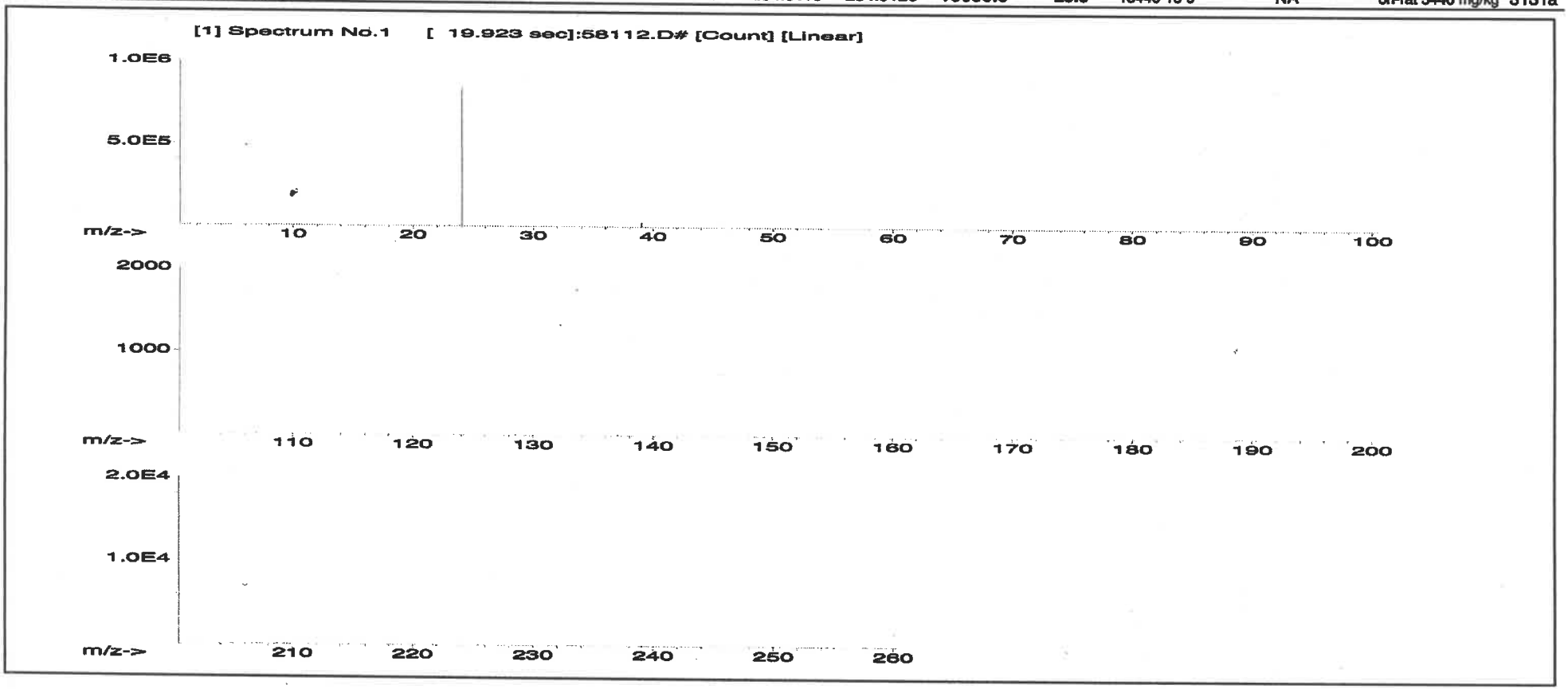
	Lot #		
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By: Lawrence Barry 091823

Reviewed By: Pedro L. Rentas 091823

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Magnesium nitrate hexahydrate (Mg)	IN030	MGD052023A1	10000	99.999	0.10	8.51	234.9118	234.9126	**10000.0**	**20.0**	13446-18-9	NA	ori-rat 5440 mg/kg	3131a



785

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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M5768 M5769 (BH) R:1/3/24

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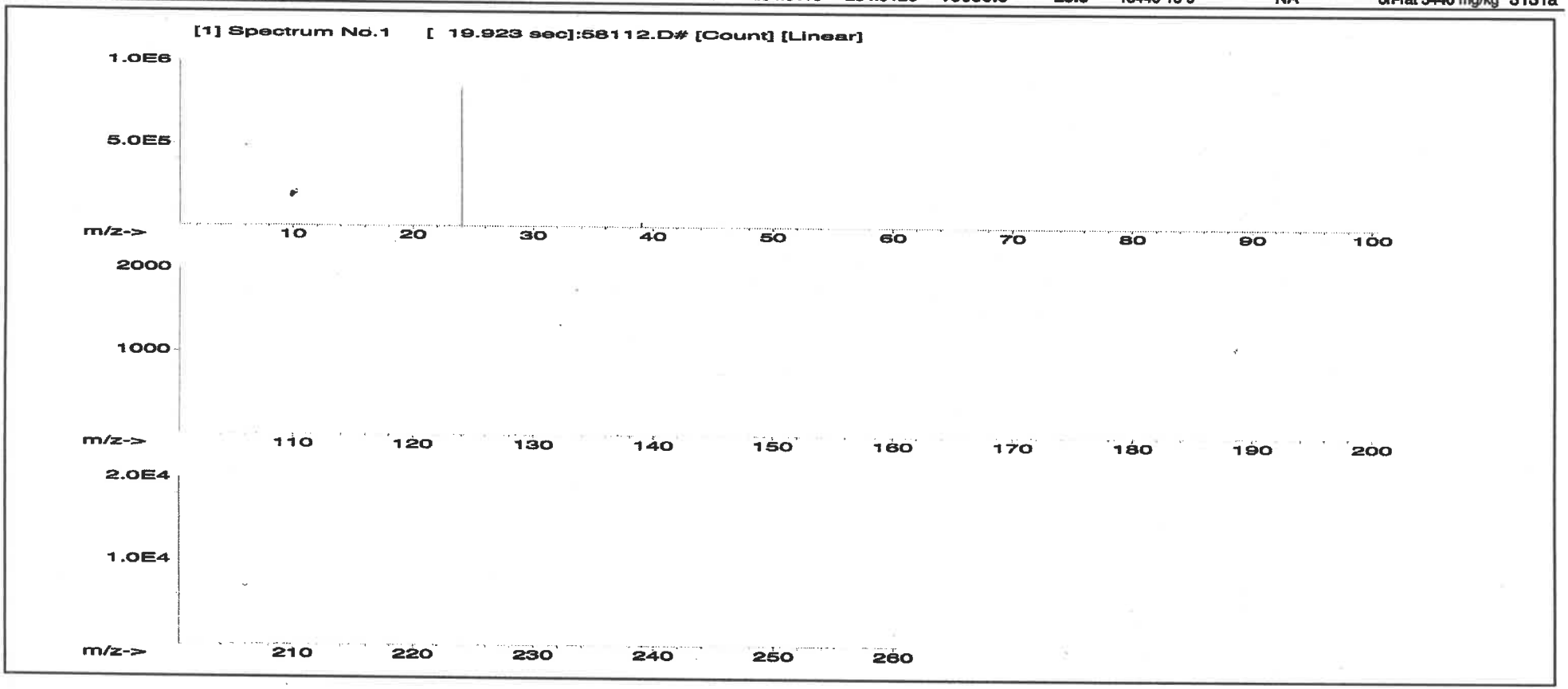
CERTIFIED WEIGHT REPORT:

			Lot #	
Part Number:	**58112**	**Solvent:**	24002546	Nitric Acid
Lot Number:	**091823**			
Description:	**Magnesium (Mg)**			
		2%	40.0 (mL)	Nitric Acid
Expiration Date:	091826			
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		

M5768. M5769 (BH) R: 1/3/24

Formulated By:	Lawrence Barry	091823
Reviewed By:	Pedro L. Rentas	091823

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Magnesium nitrate hexahydrate (Mg)	IN030	MGD052023A1	10000	99.999	0.10	8.51	234.9118	234.9126	**10000.0**	**20.0**	13446-18-9	NA	orl-rat 5440 mg/kg	3131a



787

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	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.
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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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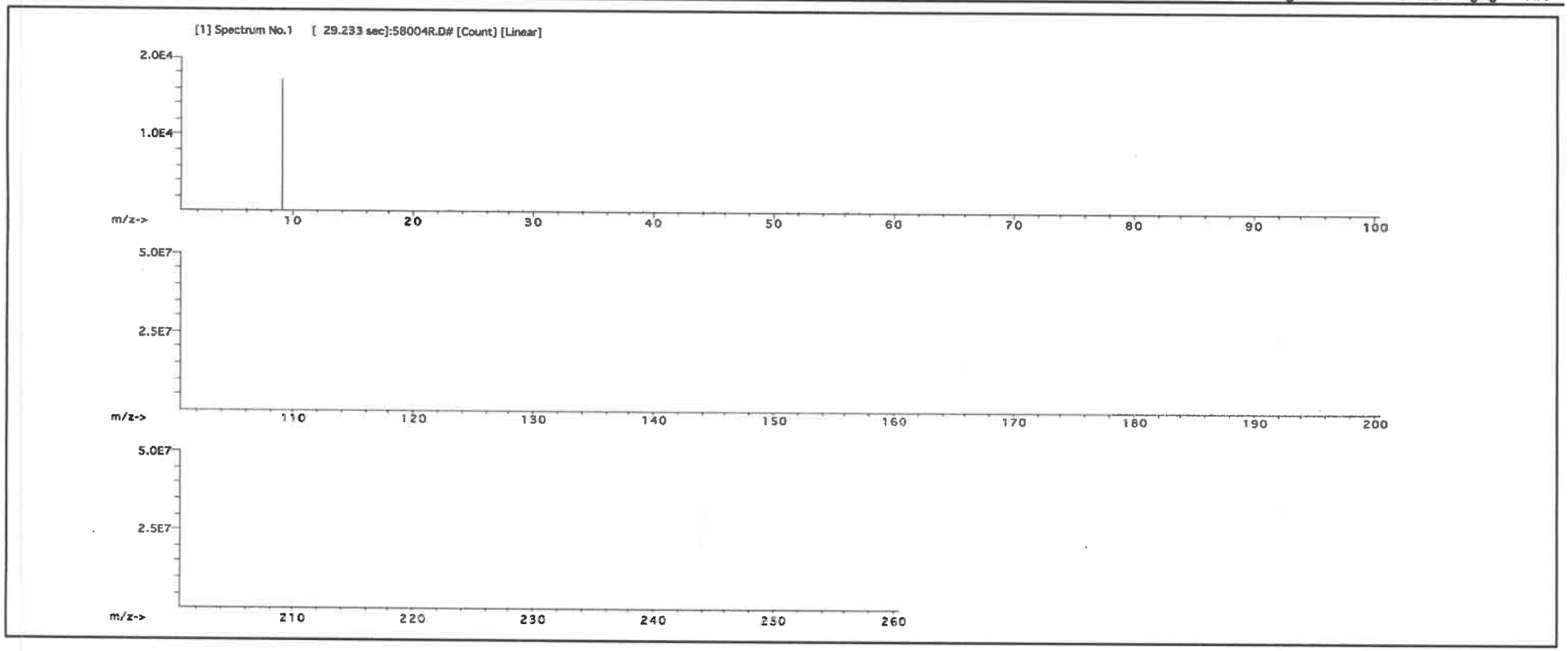
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57004**	24002546	Nitric Acid		
Lot Number:	**102523**				
Description:	**Beryllium (Be)**	2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	102526				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Benson Chan	102523
Reviewed By:	Pedro L. Rentas	102523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Beryllium nitrate (Be)	58104	091423	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	13597-99-4	0.2ug/m3	intrvns-rat 3.16mg/kg	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
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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790

CERTIFIED WEIGHT REPORT:

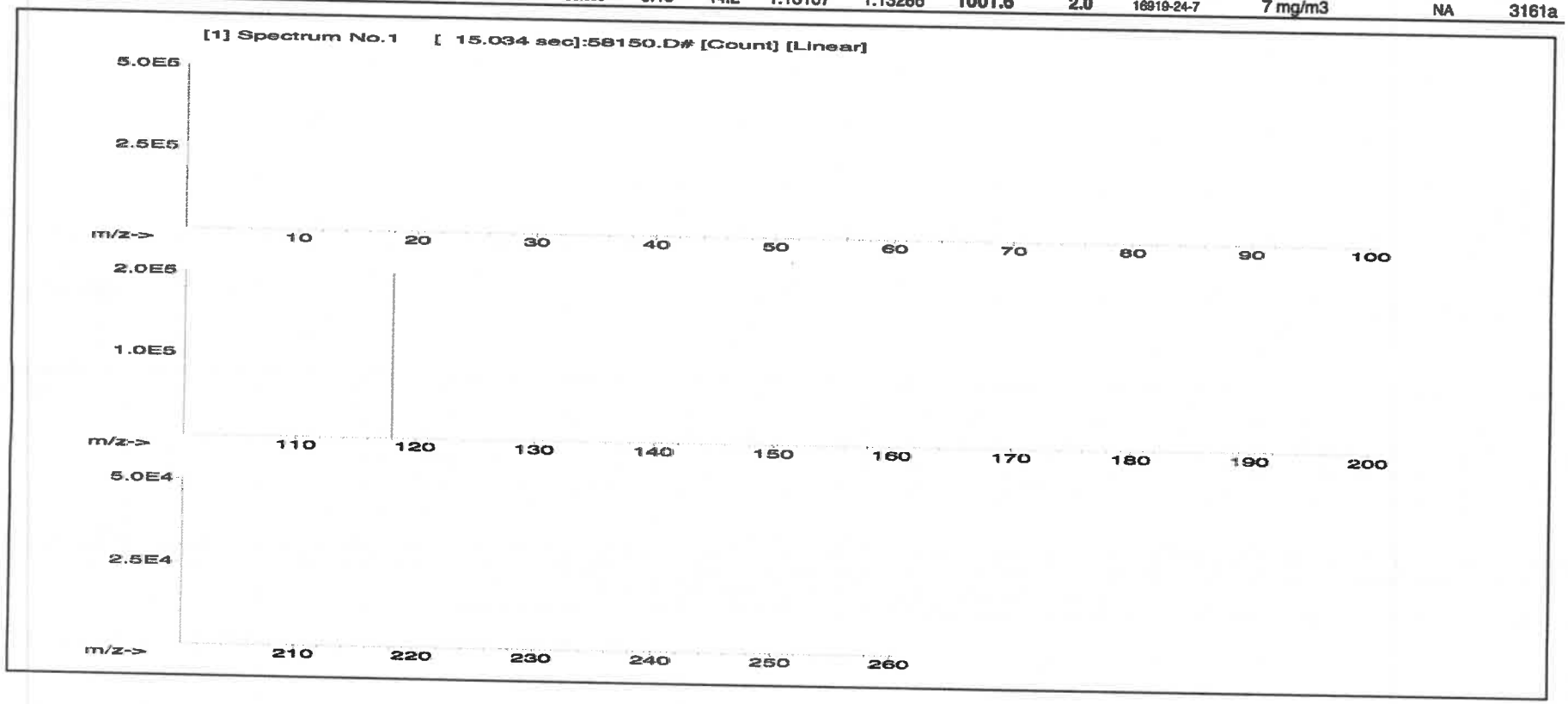
Part Number:	57050
Lot Number:	071123
Description:	Tin (Sn)
Expiration Date:	071126
Recommended Storage:	Ambient (20 °C)
Nominal Concentration (µg/mL):	1000
NIST Test Number:	6UTB
Weight shown below was diluted to (mL):	499.93

	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



791

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<500	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	T	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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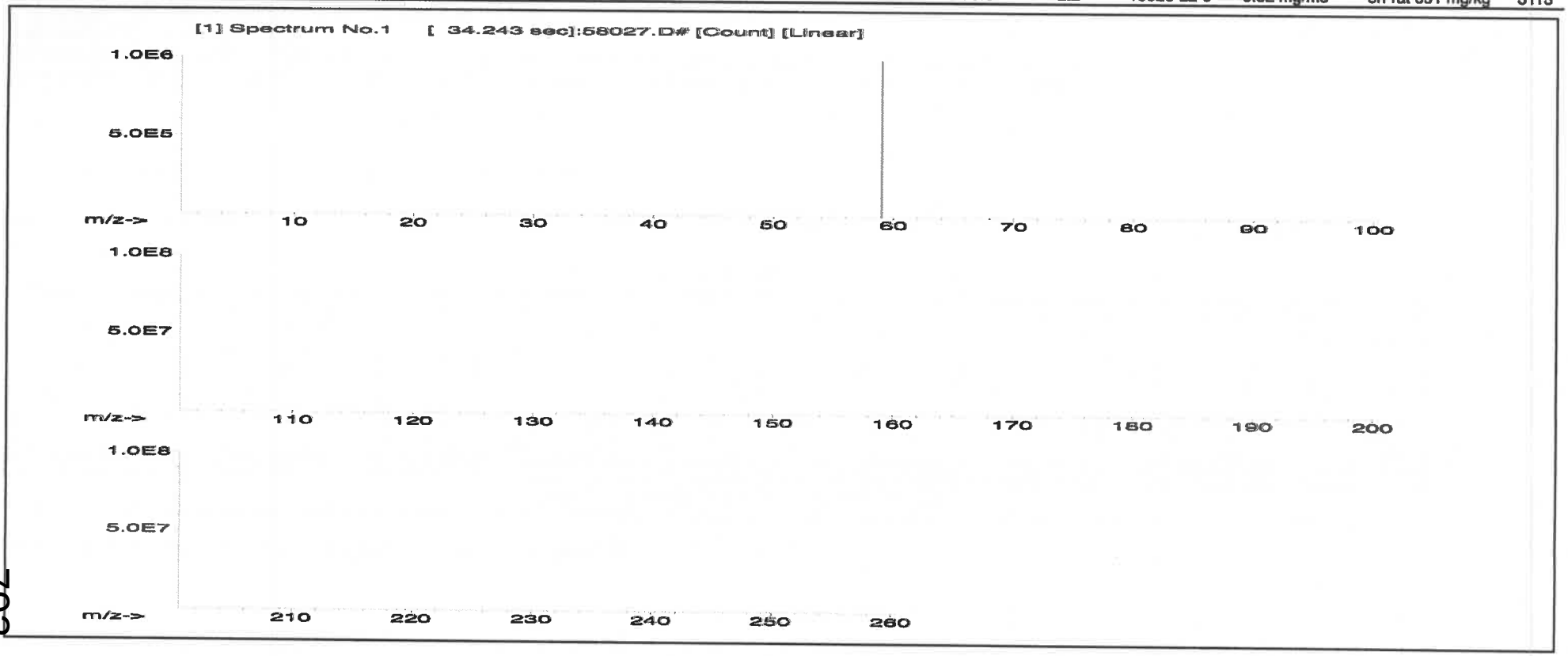
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57027**	24002546	Nitric Acid		
Lot Number:	**091923**				
Description:	**Cobalt (Co)**	2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	091926				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By: Lawrence Barry 091923

Reviewed By: Pedro L. Rentas 091923

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cobalt(II) nitrate hexahydrate (Co)	58127	050923	0.1000	200.0	0.084	1000	10000.0	**1000.0**	**2.2**	10026-22-9	0.02 mg/m3	orl-rat 691 mg/kg	3113



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	T	Gé	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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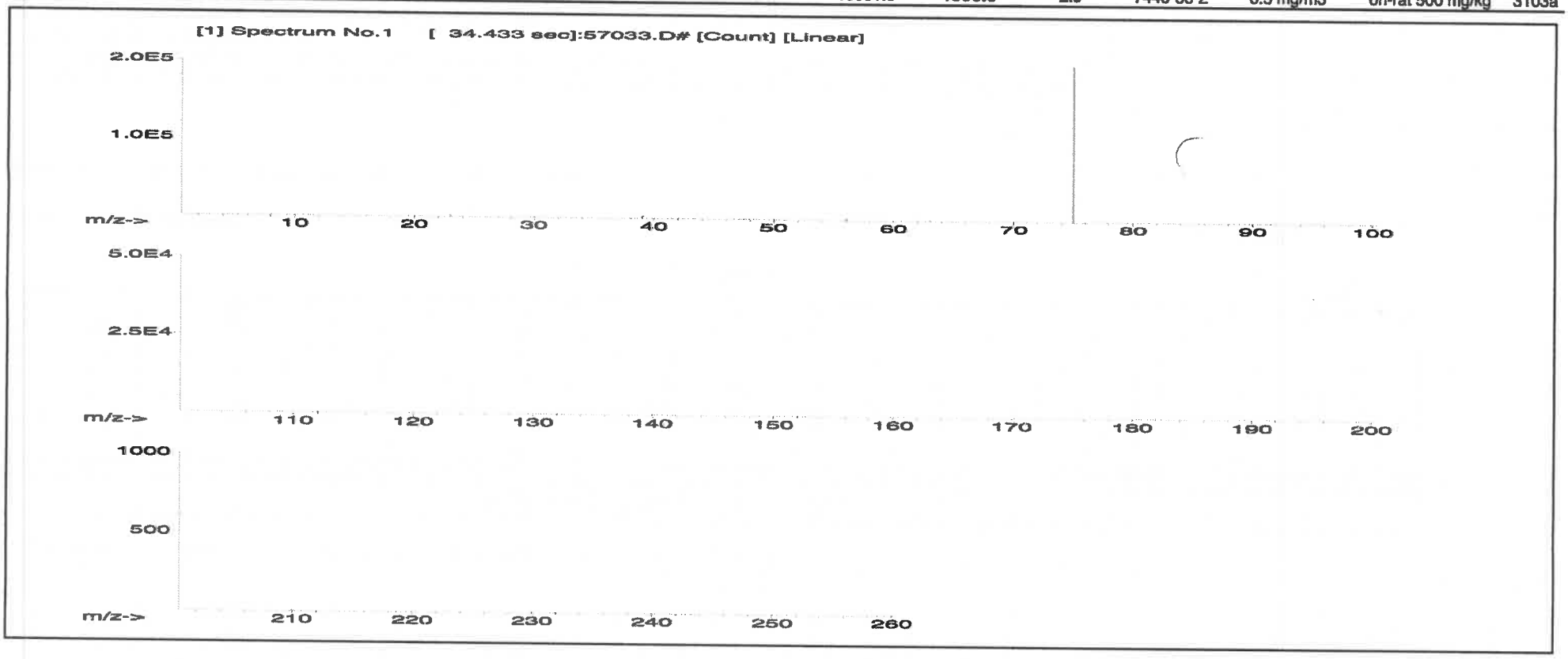
794

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



795

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	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:

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* Standards are certifed (+/-) 0.5% of the stated value, 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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R 1 02/09/24. M58165

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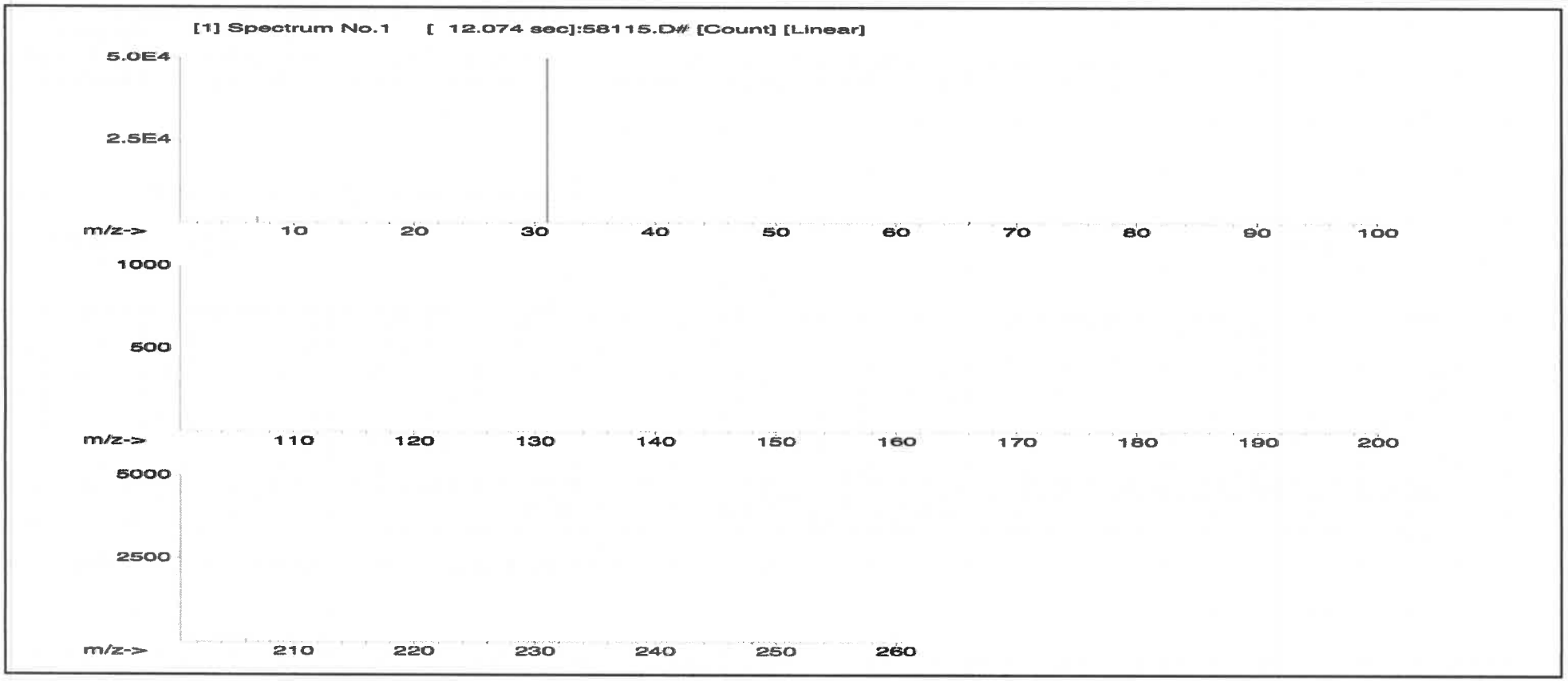
CERTIFIED WEIGHT REPORT:

			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

796

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



767

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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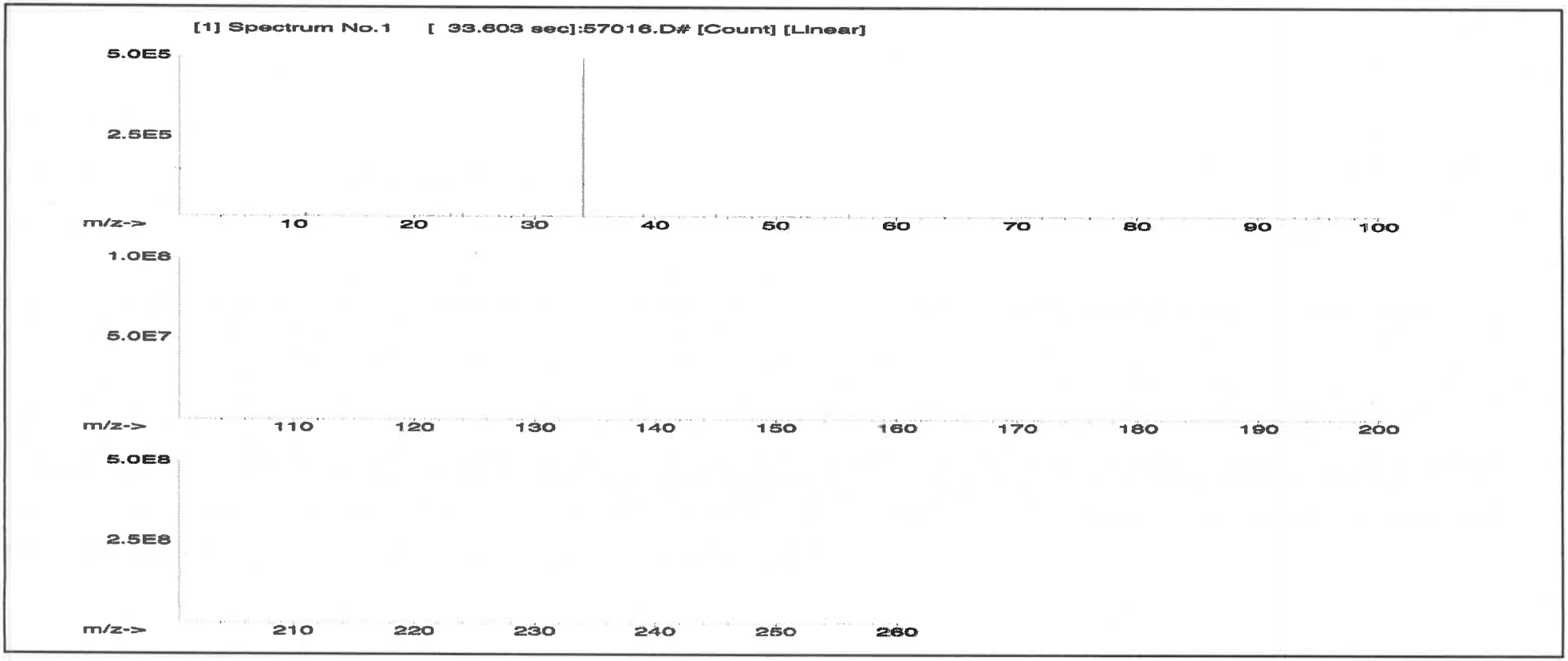
CERTIFIED WEIGHT REPORT:

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

798

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



799

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
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800

CERTIFIED WEIGHT REPORT:

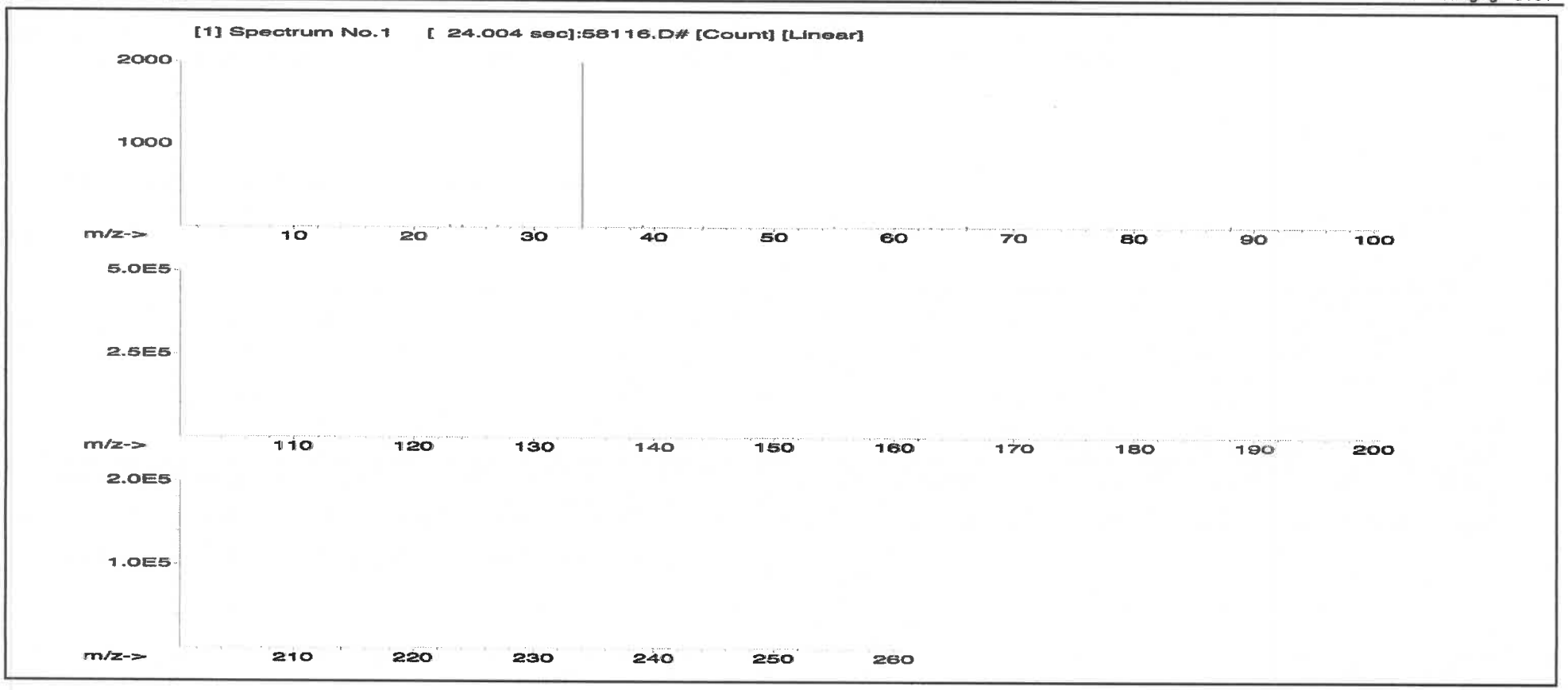
Part Number: 57116
Lot Number: 071123
Description: Sulfur (S)

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



801

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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R: 02/09/24 M.5818

Lot #

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802

CERTIFIED WEIGHT REPORT:

Part Number: 57014
Lot Number: 122023
Description: Silicon (Si)

Expiration Date: 122026
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1999.48

Solvent: 24002546 Nitric Acid

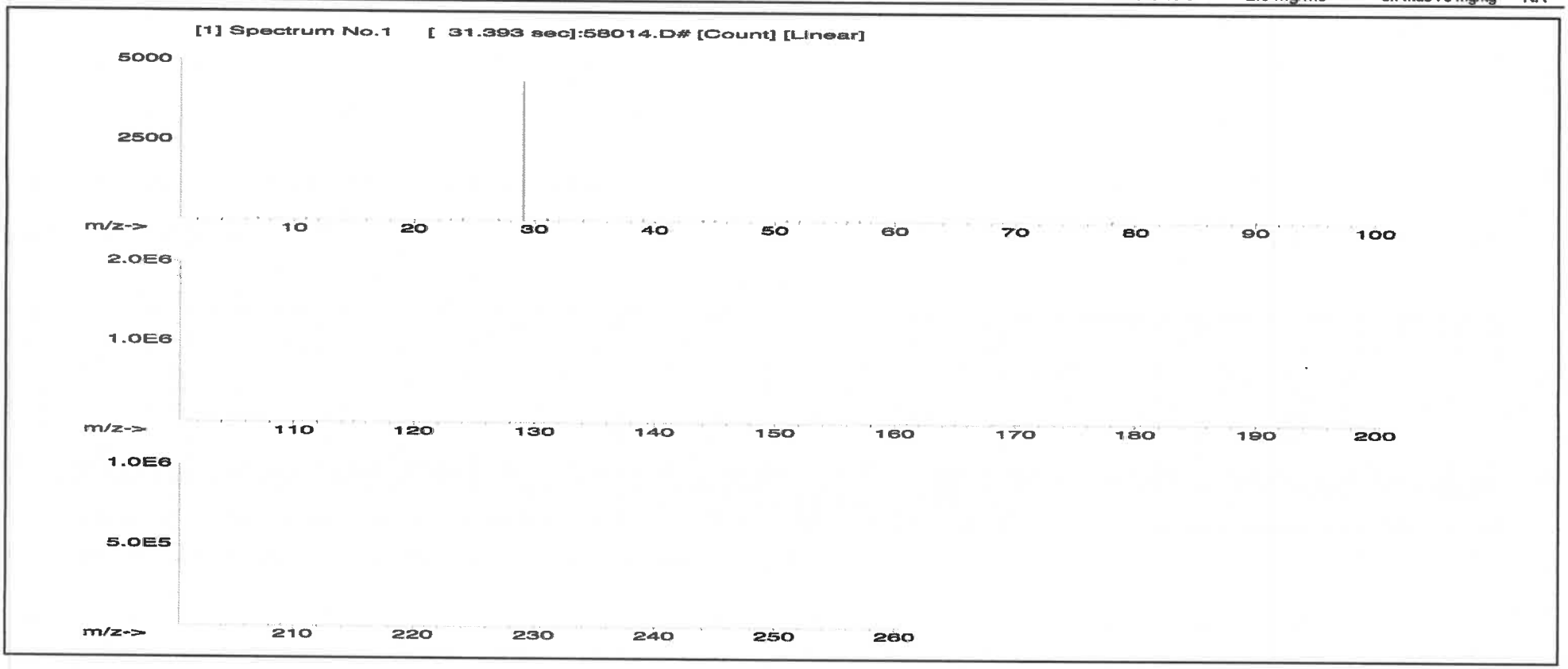
2% 40.0 (mL) Nitric Acid

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Aleah O'Brady
Formulated By: Aleah O'Brady 122023

Pedro Rentas
Reviewed By: Pedro L. Rentas 122023

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorosilicate (Si)	IN009	SID082022A1	1000	99.999	0.10	14.4	13.8854	13.8855	**1000.0**	**2.0**	16919-19-0	2.5 mg/m3	orl-mus 70 mg/kg	NA



803

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	T	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

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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804

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

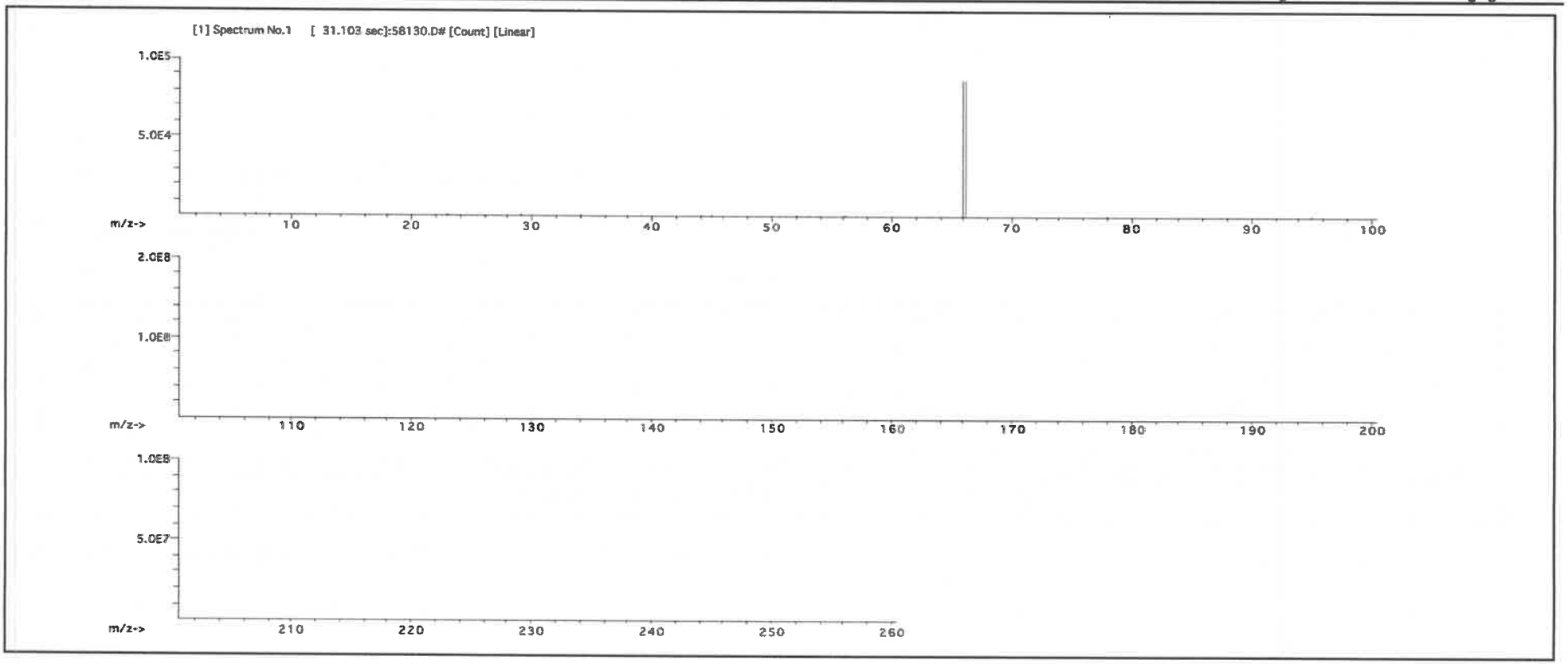
Weight shown below was diluted to (mL): 3000.4 0.06 Flask Uncertainty

	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



805

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	T
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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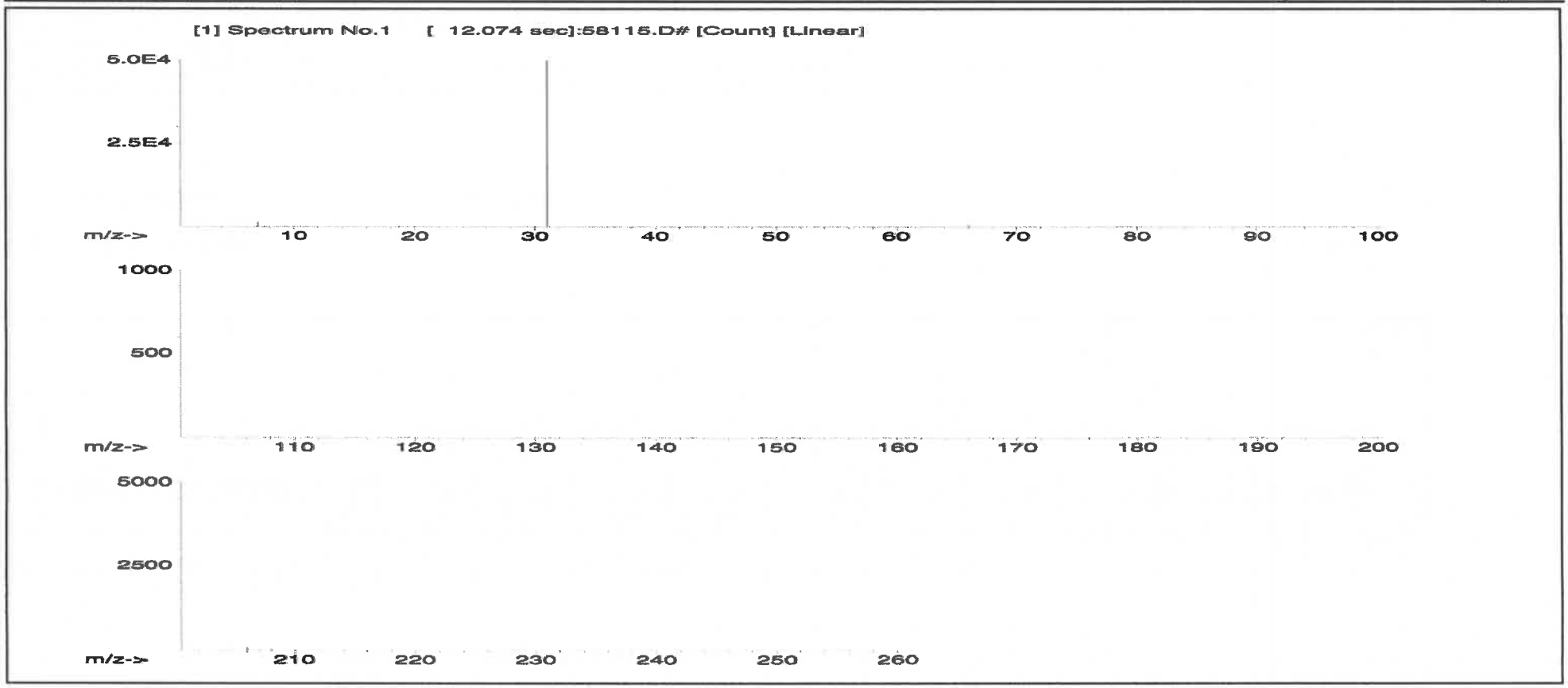
806

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



807

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certificate of Analysis

M5959 R: 6/14/24.

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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 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.

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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 (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

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

M5960 KK R. 6/11/24

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CERTIFIED WEIGHT REPORT:

Part Number: 57028
Lot Number: 041124
Description: Nickel (Ni)

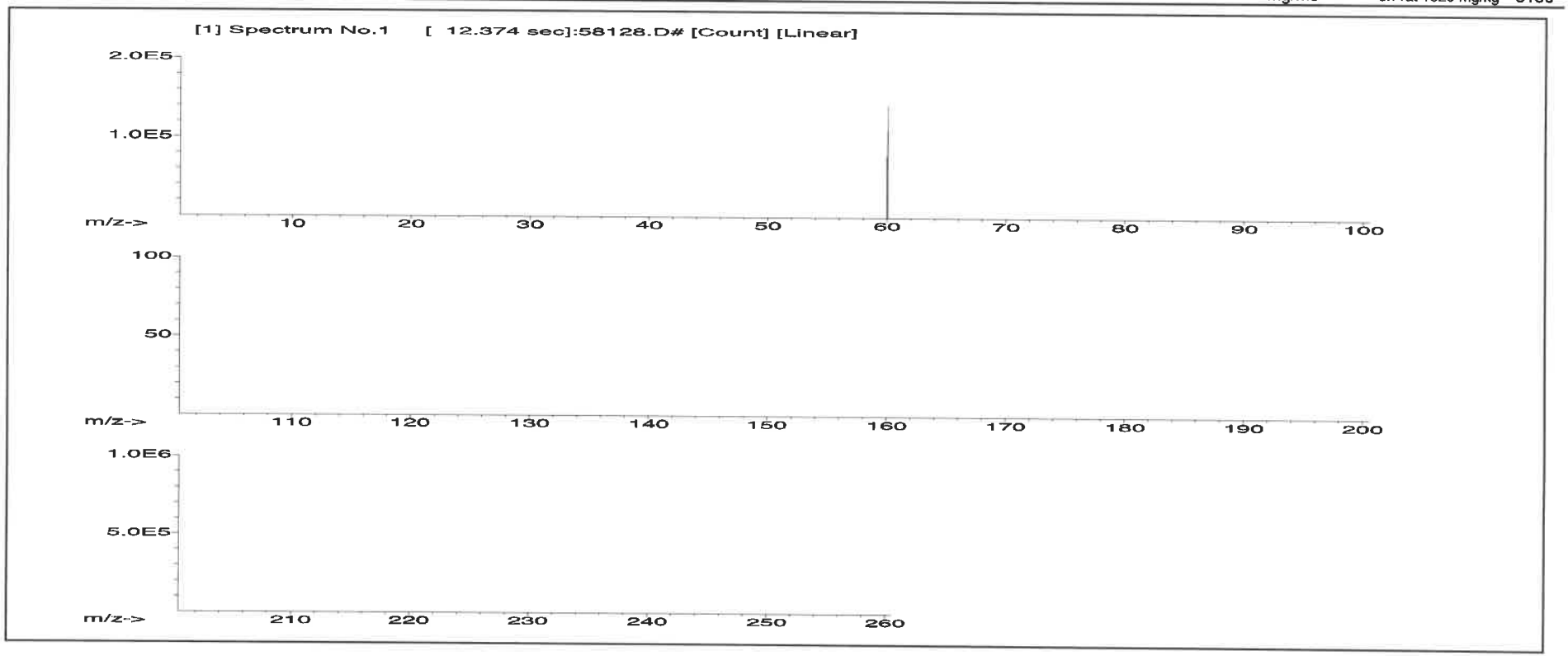
Expiration Date: 041127
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 249.85

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	5.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.002 Flask Uncertainty

Formulated By:	Brian Geddes	041124
Reviewed By:	Pedro L. Rentas	041124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Nickel(II) nitrate hexahydrate (Ni)	IN033	NIM052023A1	1000	99.999	0.10	20.2	1.2369	1.2369	**1000.0**	**2.0**	13478-00-7	1 mg/m3	orl-rat 1620 mg/kg	3136



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	T	Pr	<0.02	Sc	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

M5962 R! 06/14/24.

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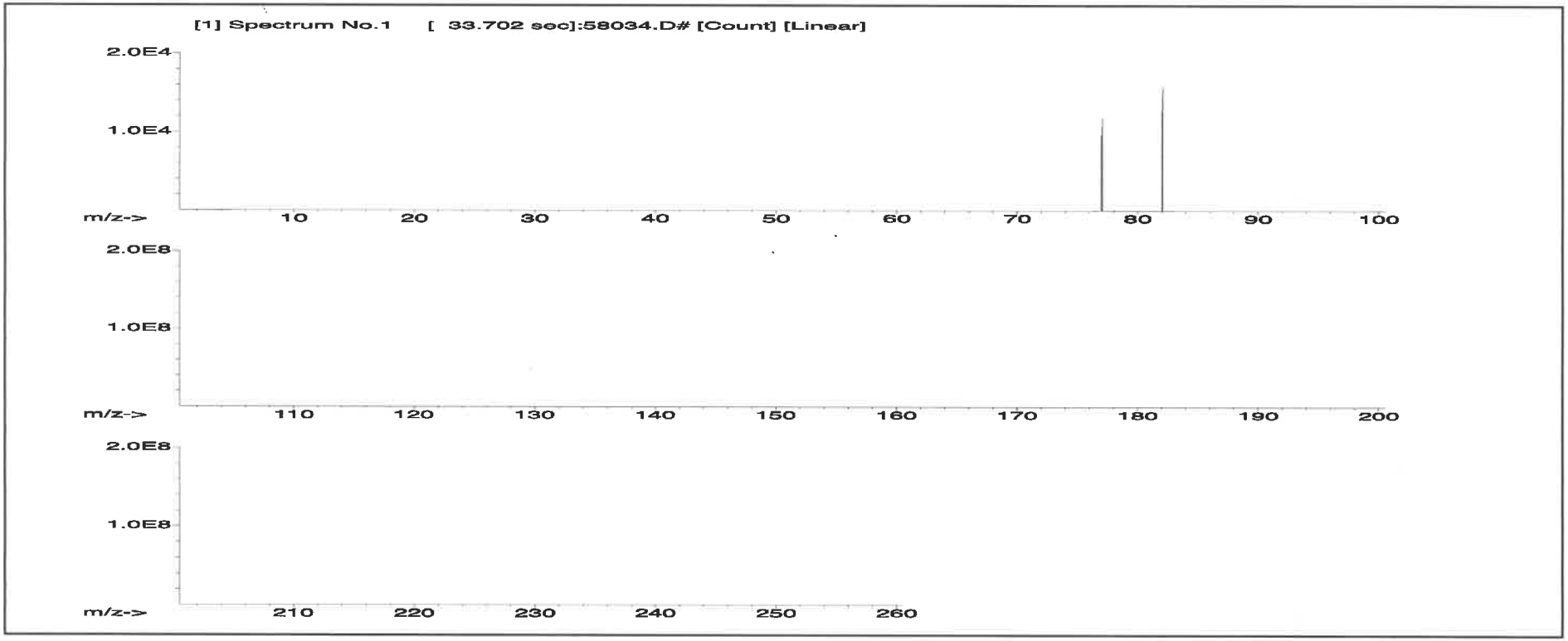
814

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



815

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																		
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	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).
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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

M5970, M5971 R: 7/01/24

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AR-1539 Certificate Number
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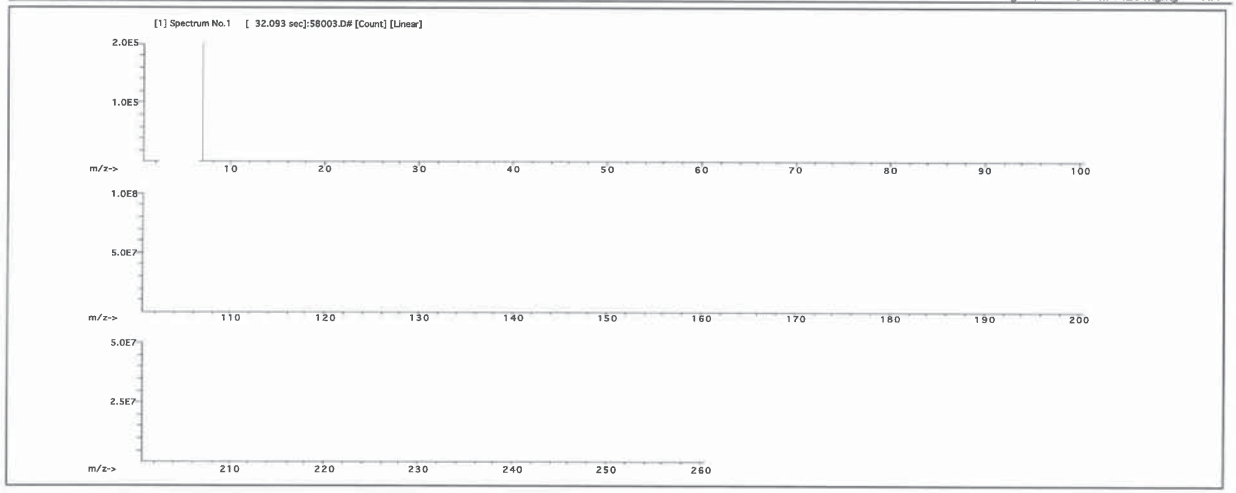
CERTIFIED WEIGHT REPORT:

		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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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).

INORGANIC VENTURES
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Certificate of Analysis

M5976, M5977
R: 02/22/24

300 Technology Drive
Christiansburg, VA 24073 USA
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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 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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M5978, M5979

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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:	CGTI1
Lot Number:	T2-TI719972
Matrix:	2% (v/v) HNO3 tr. HF
Value / Analyte(s):	1 000 µg/mL ea: Titanium
Starting Material:	Ti Metal
Starting Material Lot#:	2094
Starting Material Purity:	99.9975%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 5 µg/mL

Density: 1.012 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **1002 ± 4 µg/mL**
ICP Assay NIST SRM 3162a Lot Number: 130925

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$
w_i = the weighting factors for each method calculated using the inverse square of the variance

$w_i = (1/u_{char\ i}^2) / (\Sigma(1/u_{char\ i}^2))$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = (\Sigma(w_i)^2\ (u_{char\ i})^2)^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty
u_{lts} = long term stability standard uncertainty (storage)
u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with
$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization
u_{bb} = bottle to bottle homogeneity standard uncertainty
u_{lts} = long term stability standard uncertainty (storage)
u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000536	M	Eu	<	0.000268	O	Na	<	0.032670	M	Se		0.001204	O	Zn	<	0.003267
O	Al		0.000872	O	Fe		0.003225	O	Nb	<	0.043560	O	Si		0.004735	O	Zr	<	0.043560
M	As	<	0.008586	M	Ga	<	0.000268	M	Nd	<	0.000268	M	Sm	<	0.000268				
M	Au	<	0.004577	M	Gd	<	0.000268	O	Ni	<	0.010890	M	Sn		0.000096				
O	B	<	0.008929	M	Ge	<	0.002146	M	Os	<	0.000269	O	Sr		0.000096				
M	Ba	<	0.002683	M	Hf		0.002161	O	P	<	0.054450	M	Ta		0.010560				
M	Be	<	0.005366	M	Hg	<	0.003231	M	Pb	<	0.001073	M	Tb	<	0.000268				
M	Bi	<	0.001609	M	Ho	<	0.000268	M	Pd	<	0.000268	M	Te	<	0.001341				
O	Ca		0.000676	M	In	<	0.002683	M	Pr	<	0.000268	M	Th	<	0.053663				
M	Cd	<	0.000268	M	Ir	<	0.000269	M	Pt	<	0.000536	s	Ti	<					
M	Ce	<	0.000268	M	K		0.001172	M	Rb	<	0.000268	M	Tl	<	0.000268				
M	Co	<	0.004293	M	La	<	0.000268	M	Re	<	0.000268	M	Tm	<	0.000268				
M	Cr		0.000752	O	Li	<	0.027225	M	Rh	<	0.000268	M	U	<	0.000268				
M	Cs	<	0.000268	M	Lu	<	0.000268	M	Ru	<	0.000269	M	V	<	0.019855				
O	Cu	<	0.010890	O	Mg	<	0.005445	i	S	<		M	W		0.000473				
M	Dy	<	0.000268	O	Mn	<	0.003267	M	Sb	<	0.006976	M	Y	<	0.002146				
M	Er	<	0.000268	M	Mo		0.000774	O	Sc	<	0.004900	M	Yb	<	0.000536				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 47.87 +4 6 Ti(F)6-2

Chemical Compatibility - Soluble in concentrated HCl, HF, H3PO4 H2SO4 and HNO3. Avoid neutral to basic media. Unstable at ppm levels with metals that would pull F- away (i.e. Do not mix with Alkaline or Rare Earths or high levels of transition elements unless they are fluorinated). Stable with most inorganic anions with a tendency to hydrolyze forming the hydrated oxide in all dilute acids except HF.

Stability - 2-100 ppb levels stable (Alone or mixed with all other metals) as the Ti(F)6-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the Ti(F)6-2 chemically stable for years in 2-5% HNO3 / trace HF in an LDPE container.

Ti Containing Samples (Preparation and Solution) - Metal (Soluble in H2O / HF caution -powder reacts violently); Oxide - low temperature history anatase or rutile (Dissolved by heating in 1:1:1 H2O / HF / H2SO4); Oxide - high temperature history (~800EC) brookite (fuse in Pt0 with K2S2O7); Ores (fuse in Pt0 with KF + K2S2O7 - no KF if silica not present); Organic Matrices (Dry ash at 450EC in Pt0 and dissolve by heating with 1:1:1 H2O / HF / H2SO4 or fuse ash with pyrosulfate if oxide is as plastic pigment and likely in brookite crystalline form).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Interferences (underlined indicates severe)
ICP-MS 48 amu	14 ppt	N/A	32S16O, 32S14N, 14N16O18O, 14N17N2, 36Ar12C, 48Ca, [96X=2 (where X = Zr, Mo, Ru)]
ICP-OES 323.452 nm	0.0054 / 0.00092 µg/mL	1	Ce, Ar, Ni
ICP-OES 334.941 nm	0.0038 / 0.000028 µg/mL	1	Nb, Ta, Cr, U
ICP-OES 336.121 nm	0.0053 / 0.000034 µg/mL	1	W, Mo, Co

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- June 17, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

45982 R: 6/11/24

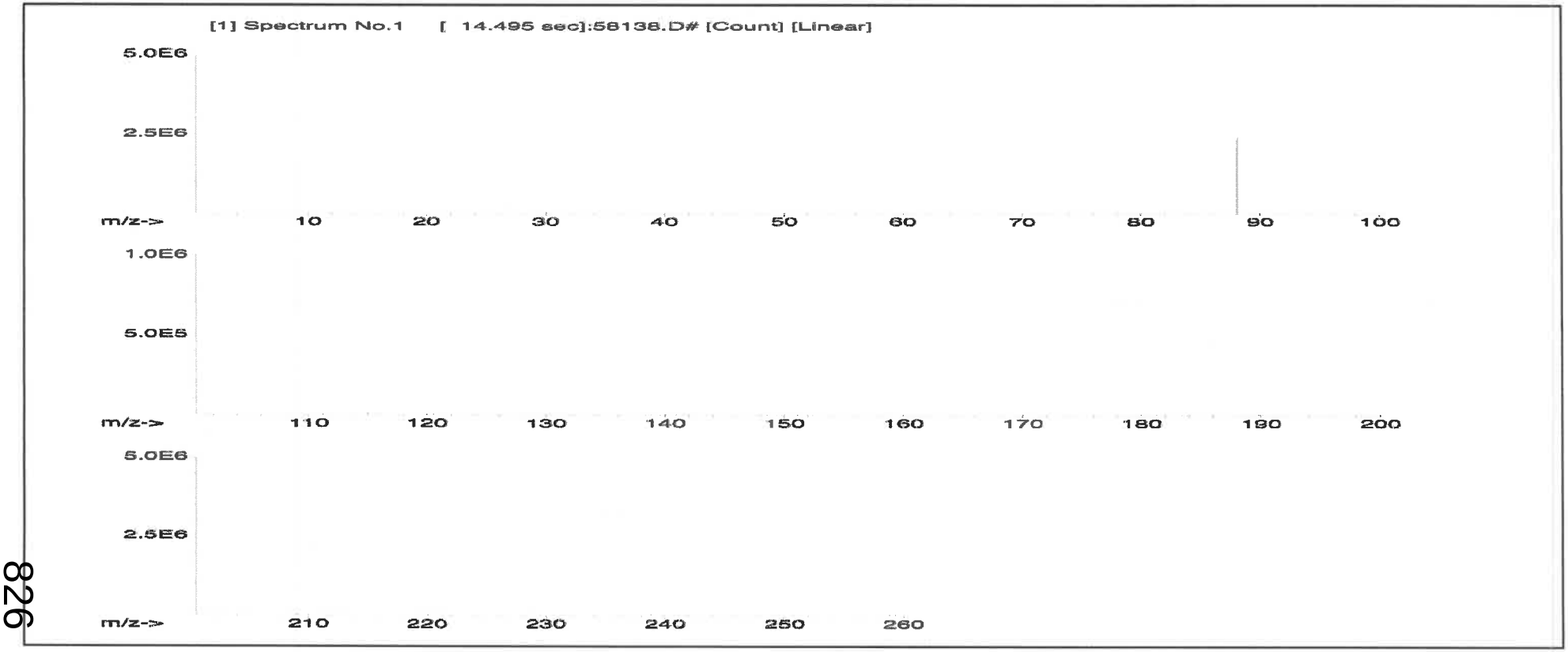
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number:	**57038**		**Lot #**		
Lot Number:	**031524**	**Solvent:**	24002546	Nitric Acid	
Description:	**Strontium (Sr)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	031527				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty		

Formulated By:	Benson Chan	031524
Reviewed By:	Pedro L. Rentas	031524

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Strontium nitrate (Sr)	IN017	SRZ022018A1	1000	99.997	0.10	41.2	4.85470	4.85502	**1000.1**	**2.0**	10042-76-9	NA	orl-rat >2000mg/kg	3153a



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* 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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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGY10
Lot Number:	V2-Y740548
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Yttrium
Starting Material:	Yttrium Oxide
Starting Material Lot#:	2661 and 06230520YL
Starting Material Purity:	99.9984%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10000 ± 30 µg/mL

Density: 1.032 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**10011 ± 25 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #2	**9997 ± 50 µg/mL** ICP Assay NIST SRM 3167a Lot Number: 190730
Assay Method #3	**9984 ± 31 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

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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)

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

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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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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.

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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)

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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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:

836

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Ag	Calculated		See Sec. 4.2
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
V	IC Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 27, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- July 27, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 01/03/24 M6033

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

840

CERTIFIED WEIGHT REPORT:

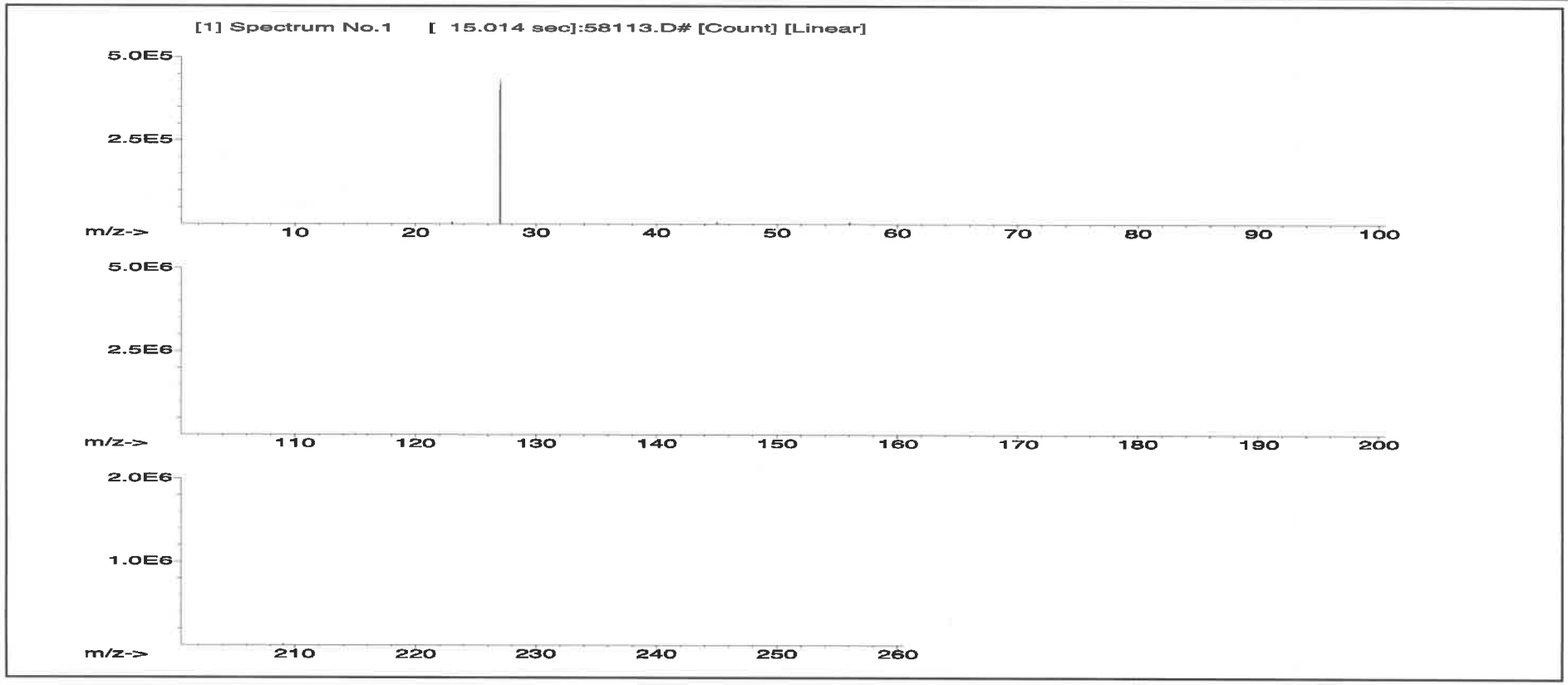
Part Number:	**58113**		**Solvent:**	20510011	Nitric Acid
Lot Number:	**011623**				
Description:	**Aluminum (Al)**				
			2%	40.0 (mL)	Nitric Acid
Expiration Date:	011626				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Lot #

Giovanni Esposito

Formulated By:	Giovanni Esposito	011623
Reviewed By:	Pedro L. Rentas	011623

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Aluminum nitrate nonahydrate (Al)	IN022	ALM112021A1	10000	99.999	0.10	7.30	273.9779	274.0078	**10001.1**	**20.0**	7784-27-2	2 mg/m3	orl-rat 3671 mg/kg	3101a



Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M6109
M6110
M6111

Received date 9/29/24 Met dig.

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22F0762009
Manufactured Date: 2022-05-10
Retest Date: 2027-05-09
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	1.190
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	0.8 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	14.9 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>

For questions on this Certificate of Analysis please contact Technical Services at 855 282 6867 or +1 610 386 1700

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22F0762009

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	0.8 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	1.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	0.7 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	< 0.8 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	0.8 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.: 22F0762009

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

Nitric Acid 69%
CMOS

M6112
M6113
M6114
M6115
M6116
M6117

Receive:
9/29/24
Met dig

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001
Manufactured Date: 2024-01-25
Retest Date: 2029-01-23
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.6 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	< 0.2 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	3 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	1 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Nitric Acid 69%
CMOS

M6112
M6113
M6114
M6115
M6116
M6117

Receive:
9/29/24
Met dig

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001
Manufactured Date: 2024-01-25
Retest Date: 2029-01-23
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.6 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	< 0.2 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	3 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	1 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Recieve → 10/9/24
Met dig

M6118

Material No.: 9530-33
Batch No.: 22E1662006
Manufactured Date: 2022-04-11
Retest Date: 2027-04-10
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	1.190
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	< 0.2 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	37.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	1 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.: 22E1662006

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	1.0 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 0.4 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	1.9 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	< 0.8 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	< 0.3 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.: 22E1662006

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

R ->10/13/24
Metal g

M 6120

Material No.: 9606-03
Batch No.: 2310662003
Manufactured Date: 2023-08-21
Retest Date: 2028-08-19
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.5 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	10
Residue after Ignition	≤ 2 ppm	< 2 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.08 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.10 ppm
Sulfate (SO_4)	≤ 0.2 ppm	0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 40.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 5.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 20.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 50 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	< 50.0 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	30.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 20 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 20 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 100 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 40.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 20.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 20 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 20.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

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Material No.: 9606-03
Batch No.: 2310662003

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 50.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	< 50 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 50 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 20.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 150.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 30.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 20.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 20.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 10.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	60 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	10 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

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Material No.: 9606-03
Batch No.: 2310662003

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

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

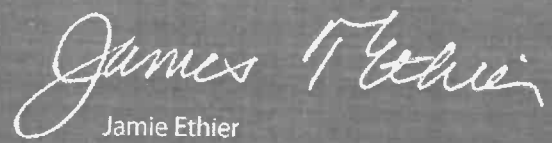
856

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

857

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

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Certified Reference Material CRM

R: 01/03/24 M5806, M5807

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860

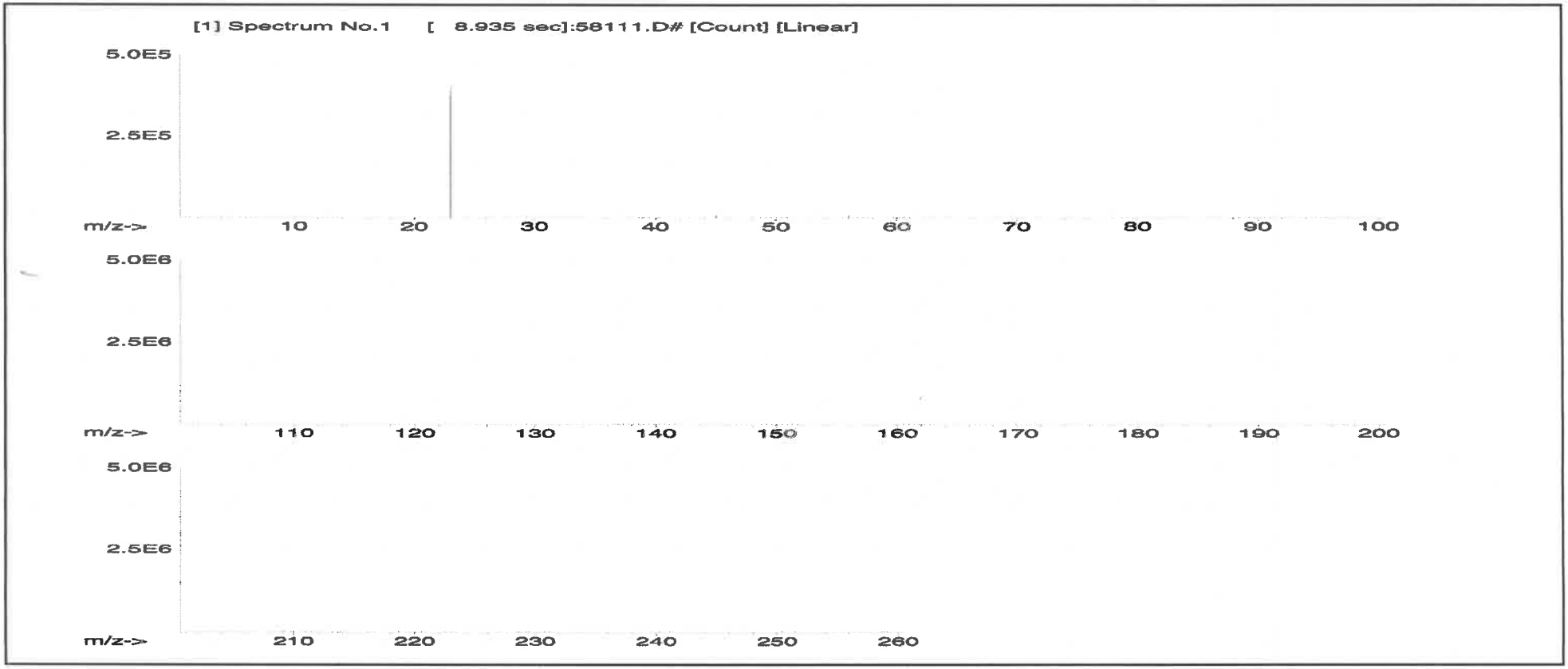
CERTIFIED WEIGHT REPORT:

			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



861

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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R: 01/03/24 M5802, M5803

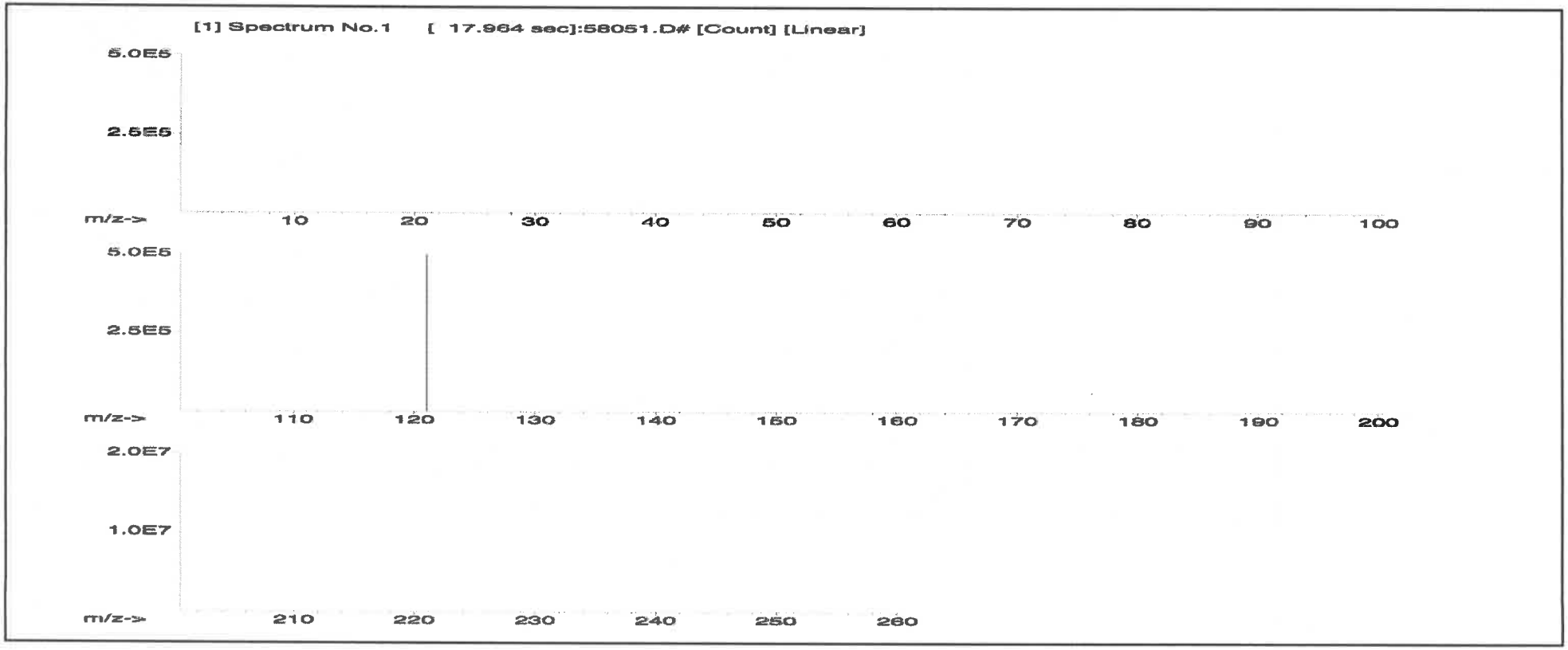
862

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



863

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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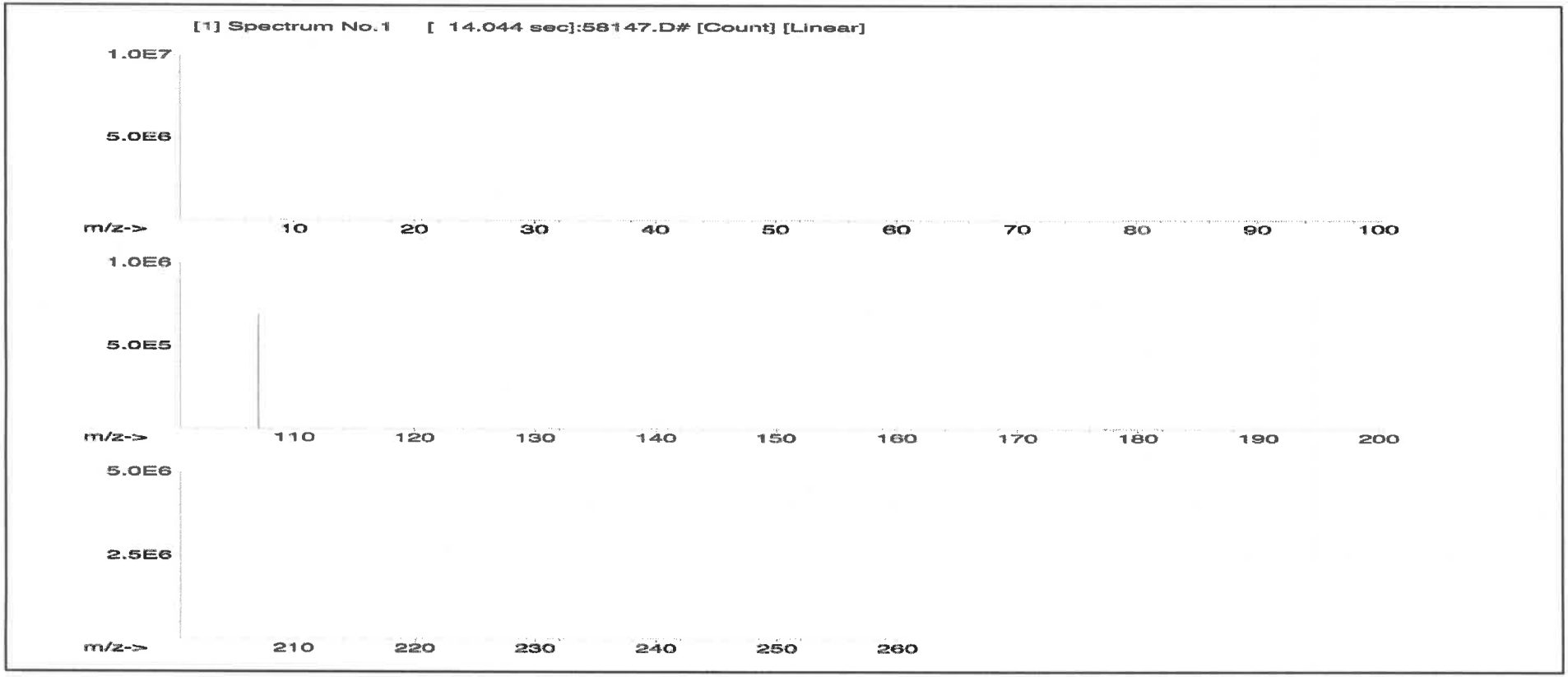
864

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



865

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	T	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* 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: 03/16/23 M5473, M5474, M5475, M5476

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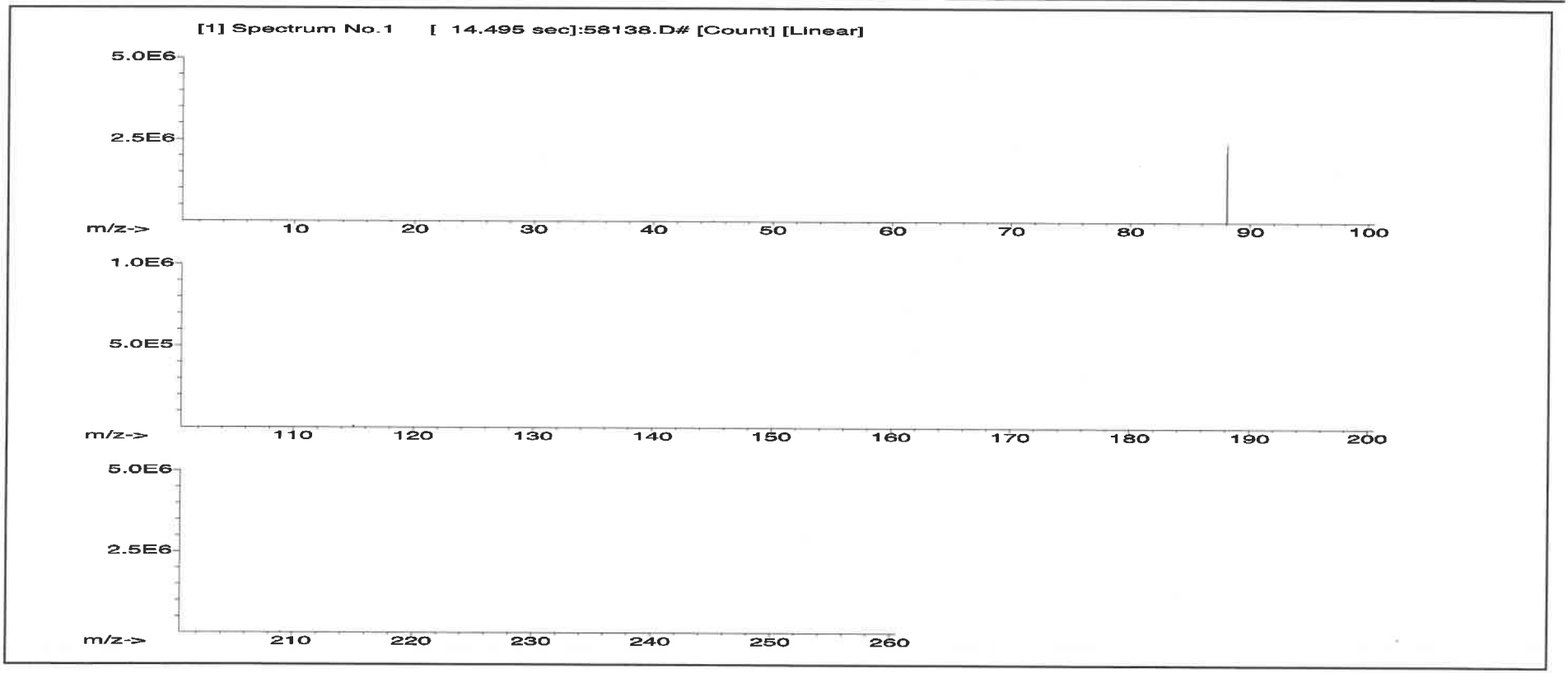
998

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



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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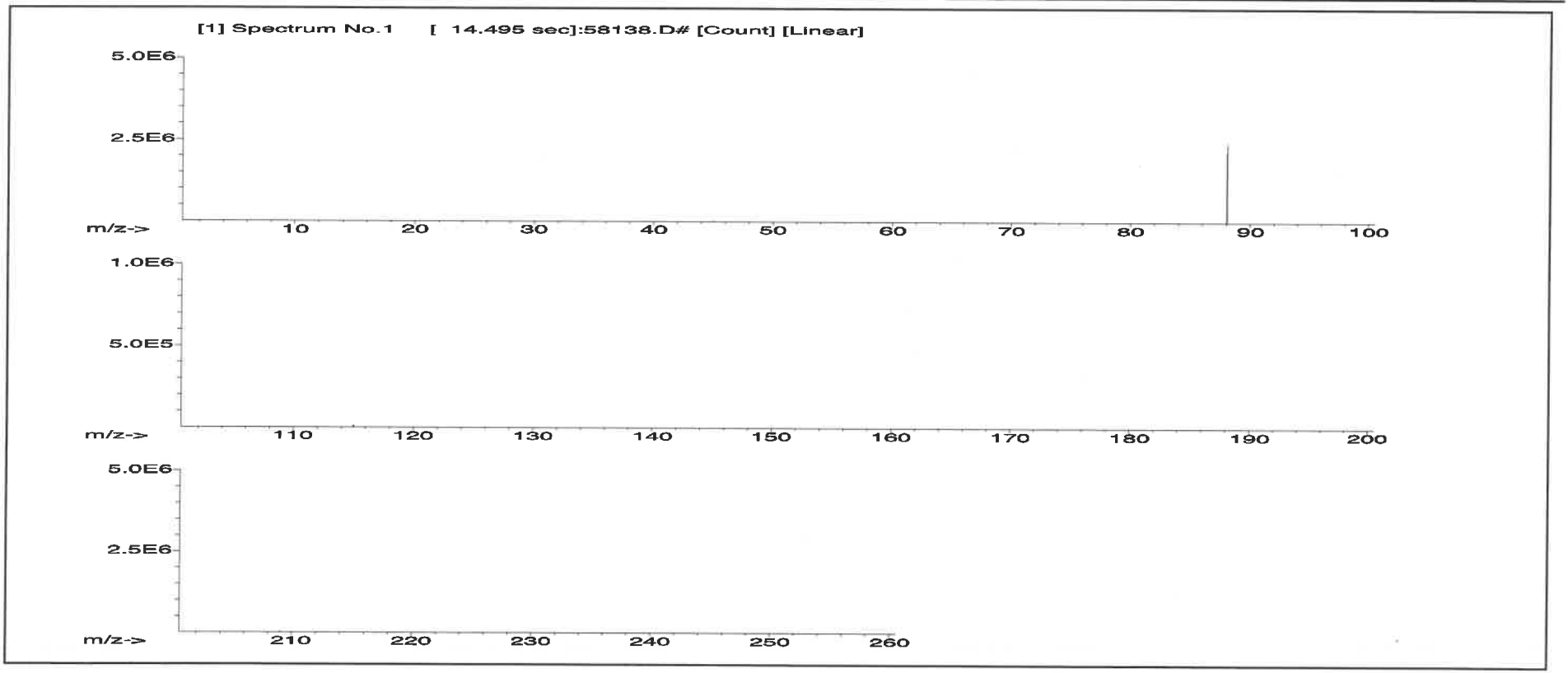
898

CERTIFIED WEIGHT REPORT:

Part Number:	**56138**		**Lot #**		
Lot Number:	**082922**	**Solvent:**	20510011	Nitric Acid	
Description:	**Strontium (Sr)**	2%	20.0 (mL)	Nitric Acid	
Expiration Date:	082925				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	1000.12	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	082922
Reviewed By:	Pedro L. Rentas	082922

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Strontium nitrate (Sr)	IN017	SRZ022018A1	10000	99.997	0.10	41.2	24.2756	24.2758	**10000.1**	**20.0**	10042-76-9	NA	orl-rat >2000mg/kg	3153a



698

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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R ! 8/5/24

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870

CERTIFIED WEIGHT REPORT:

Part Number:	**57081**		**Lot #**		
Lot Number:	**062724**	**Solvent:**	24002546	Nitric Acid	
Description:	**Thallium (Tl)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	062727				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.1	0.10	Flask Uncertainty		

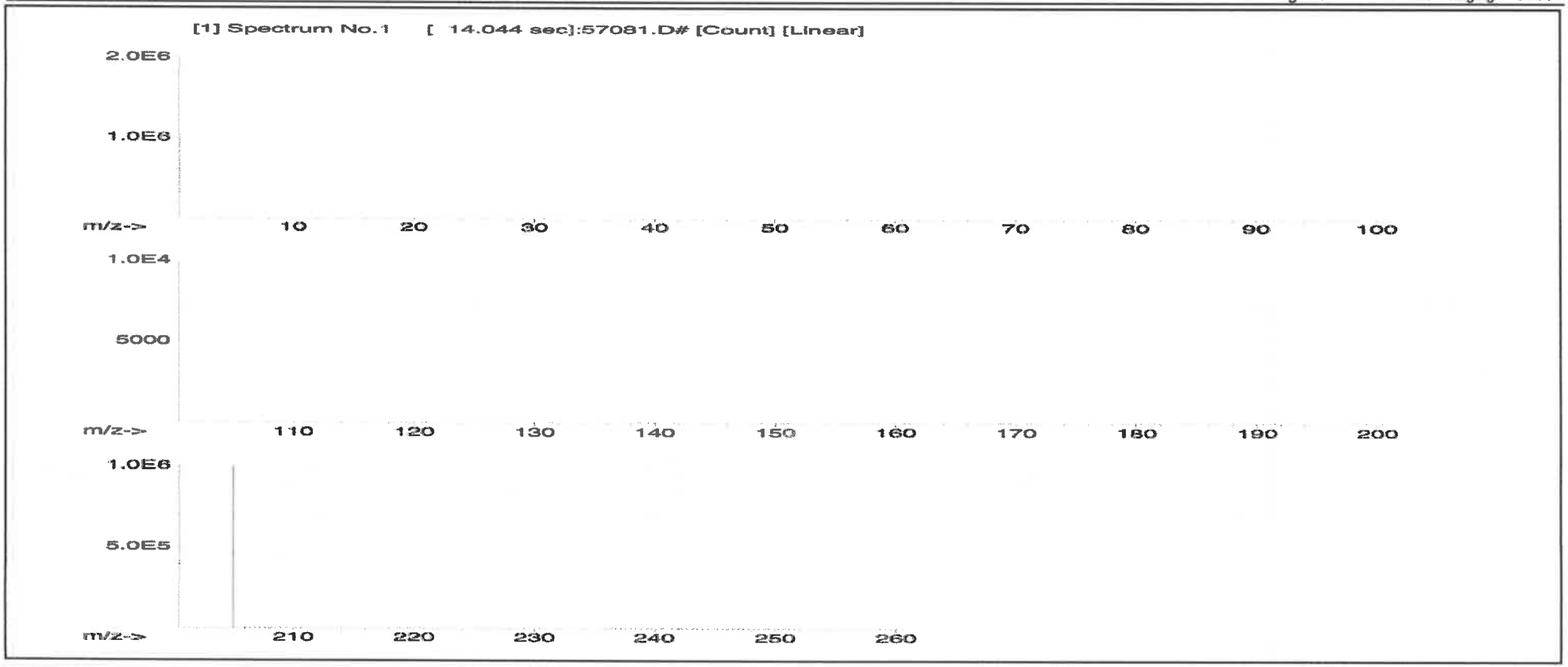
Aleah O'Brady

Formulated By:	Aleah O'Brady	062724

Pedro Rentas

Reviewed By:	Pedro L. Rentas	062724

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Thallium nitrate (Tl)	IN037	BCCF4399	1000	99.999	0.10	77.0	2.5975	2.5977	**1000.1**	**2.0**	10102-45-1	0.1 mg/m3	orl-mus 15mg/kg	3158



871

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	T	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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Rc. 8/5/24

872

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57023**	24002546	Nitric Acid	
Lot Number:	**062424**			
Description:	**Vanadium (V)**	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	062427			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.3	0.06	Flask Uncertainty	

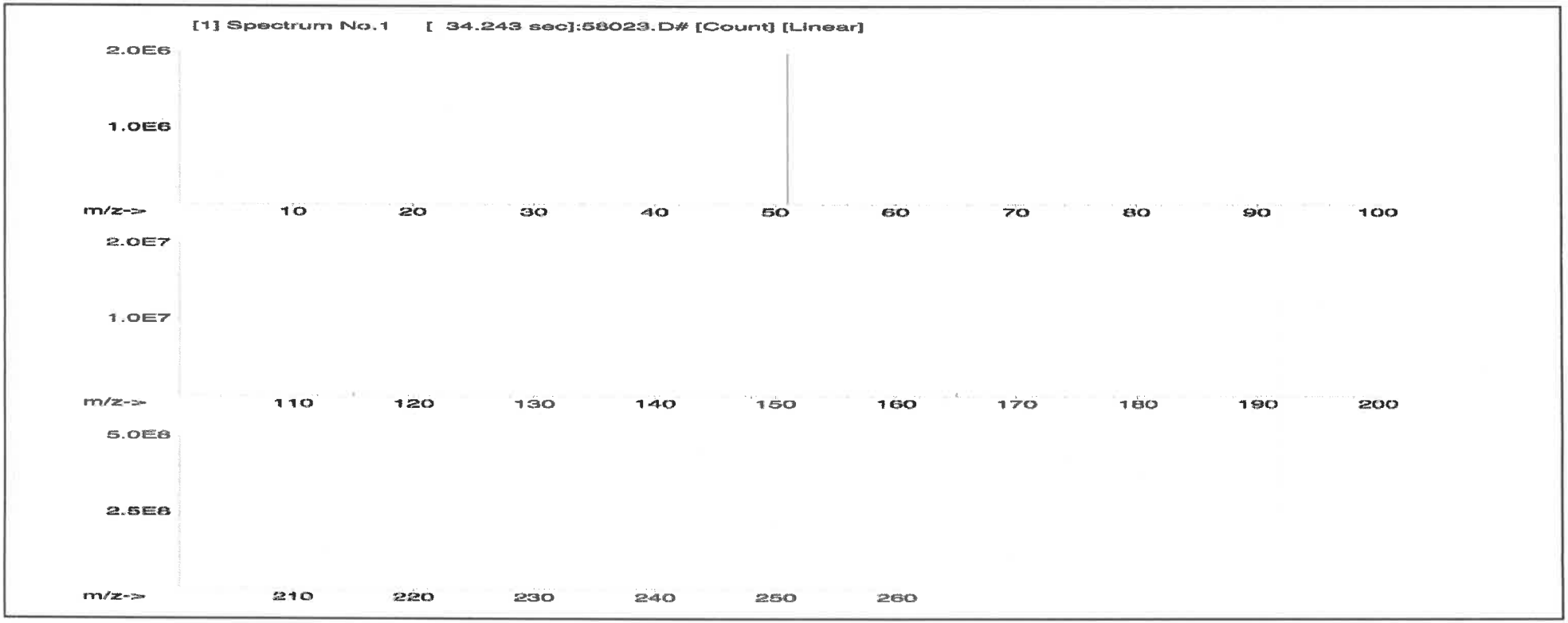
Aleah O'Brady

Formulated By:	Aleah O'Brady	062424

Pedro Rentas

Reviewed By:	Pedro L. Rentas	062424

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium metavanadate (V)	58123	021224	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	7803-55-6	0.05 mg/m3	orl-rat 58.1mg/kg	3165



873

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	T
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

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Certified by:

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Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB165171

SOP ID : M3050B-Digestion-20, MSFAM01.1-Trace Metals-2

SDG No : MBHHP1

Matrix : SOLID

Pippete ID: ICP A

Balance ID : M SC-2

Filter paper ID : N/A

pH Strip ID : N/A

Hood ID : #3

Block ID: 1. HOT BLOCK #5 2. N/A

Start Digest Date: 11/21/2024 **Time :** 14:00 **Temp :** 96 °C

End Digest Date: 11/21/2024 **Time :** 16:10 **Temp :** 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #5

Dig Technician Signature: JGP

Supervisor Signature: SG

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LCSS	1.00	MP83141
Spike Sol 6	1.00	MP83147
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	MP83122
Conc. HNO3	5.00	M6120
30% H2O2	3.00	M5634
Conc. HCL	10.00	M6118
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 #34 : 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/21/24 16:20	JGP / Met Dig	SG / Metals Cold
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB165171

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
P4932-01	MBHHQ1	N/A	1.10	100	Brown	Yellow	Medium	N/A	N/A	1
P4932-02	MBHHQ2	N/A	1.10	100	Brown	Yellow	Medium	N/A	N/A	2
P4932-03	MBHHQ2D	N/A	1.15	100	Brown	Yellow	Medium	N/A	N/A	3
P4932-04	MBHHQ2S	N/A	1.18	100	Brown	Yellow	Medium	N/A	MP83147	4
P4932-05	MBHHQ3	N/A	1.17	100	Black	Yellow	Medium	N/A	N/A	5
P4932-06	MBHHQ4	N/A	1.12	100	Brown	Yellow	Medium	N/A	N/A	6
P4932-07	MBHHQ5	N/A	1.11	100	Black	Yellow	Medium	N/A	N/A	7
P4932-08	MBHHQ6	N/A	1.20	100	Brown	Yellow	Medium	N/A	N/A	8
P4932-09	MBHHQ7	N/A	1.11	100	Brown	Yellow	Medium	N/A	N/A	9
P4932-10	MBHHQ8	N/A	1.11	100	Brown	Yellow	Medium	N/A	N/A	10
P4932-11	MBHHQ9	N/A	1.13	100	Brown	Yellow	Medium	N/A	N/A	11
P4932-12	MBHHP1	N/A	1.27	100	Brown	Yellow	Medium	N/A	N/A	12
P4932-13	MBHHP2	N/A	1.13	100	Brown	Yellow	Medium	N/A	N/A	13
P4932-14	MBHHP3	N/A	1.10	100	Brown	Yellow	Medium	N/A	N/A	14
P4932-15	MBHHP4	N/A	1.26	100	Brown	Yellow	Medium	N/A	N/A	15
P4932-16	MBHHP5	N/A	1.13	100	Brown	Yellow	Medium	N/A	N/A	16
P4932-17	MBHHP6	N/A	1.17	100	Brown	Yellow	Medium	N/A	N/A	17
P4932-18	MBHHP7	N/A	1.33	100	Brown	Yellow	Medium	N/A	N/A	18
P4932-19	MBHHP8	N/A	1.21	100	Brown	Yellow	Medium	N/A	N/A	19
P4932-20	MBHHP9	N/A	1.13	100	Black	Yellow	Medium	N/A	N/A	20
P4932-21	MBHHQ0	N/A	1.13	100	Brown	Yellow	Medium	N/A	N/A	21
P4932-22	MBHHR0	N/A	1.22	100	Brown	Yellow	Medium	N/A	N/A	22
PB165171BL	PBS171	N/A	1.00	100	Colorless	Colorless	Fine	N/A	N/A	23
PB165171BS	LCS171	N/A	1.00	100	Colorless	Colorless	Fine	N/A	MP83141	24

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133698

Review By	Sarabjit Jaswal	Review On	12/3/2024 10:24:06 PM
Supervise By	Kareem Khairalla	Supervise On	12/5/2024 8:14:16 PM

STD. NAME	STD REF.#
ICAL Standard	MP83134,MP83142,MP83140,MP83139,MP83138,MP83137,MP83136
ICV Standard	MP83143
CCV Standard	MP83146
ICSA Standard	MP83144,MP83145
CRI Standard	
LCS Standard	MP83141
Chk Standard	MP83148,MP83149

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	12/02/24 15:21		Kareem	OK
2	S1	S01	CAL2	12/02/24 15:26		Kareem	OK
3	S2	S02	CAL3	12/02/24 15:30		Kareem	OK
4	S3	S03	CAL4	12/02/24 15:35		Kareem	OK
5	S4	S04	CAL5	12/02/24 15:39		Kareem	OK
6	S5	S05	CAL6	12/02/24 15:44		Kareem	OK
7	S6	S06	CAL7	12/02/24 15:48		Kareem	OK
8	ICV011	ICV011	ICV	12/02/24 16:20	Inst. paused for calibration review	Kareem	OK
9	ICB011	ICB011	ICB	12/02/24 16:27	Inst. paused for review	Kareem	OK
10	ICSA011	ICSA011	ICSA	12/02/24 16:40	Inst. paused for review	Kareem	OK
11	ICSAB011	ICSAB011	ICSAB	12/02/24 16:44		Kareem	OK
12	CCV071	CCV071	CCV	12/02/24 16:49		Kareem	OK
13	CCB071	CCB071	CCB	12/02/24 16:53		Kareem	OK
14	PB165190BL	PBW190	MB	12/02/24 16:58		Kareem	OK
15	PB165190BS	LCS190	LCS	12/02/24 17:02		Kareem	OK
16	PB165192BL	PBS192	MB	12/02/24 17:07		Kareem	OK
17	PB165192BS	LCS192	LCS	12/02/24 17:11		Kareem	OK
18	PB165197BL	PBS197	MB	12/02/24 17:16		Kareem	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133698

Review By	Sarabjit Jaswal	Review On	12/3/2024 10:24:06 PM
Supervise By	Kareem Khairalla	Supervise On	12/5/2024 8:14:16 PM

STD. NAME	STD REF.#
ICAL Standard	MP83134,MP83142,MP83140,MP83139,MP83138,MP83137,MP83136
ICV Standard	MP83143
CCV Standard	MP83146
ICSA Standard	MP83144,MP83145
CRI Standard	
LCS Standard	MP83141
Chk Standard	MP83148,MP83149

19	PB165197BS	LCS197	LCS	12/02/24 17:20		Kareem	OK
20	PB165139BL	PBS139	MB	12/02/24 17:25		Kareem	OK
21	PB165139BS	LCS139	LCS	12/02/24 17:30		Kareem	OK
22	PB165171BL	PBS171	MB	12/02/24 17:34		Kareem	OK
23	PB165171BS	LCS171	LCS	12/02/24 17:39		Kareem	OK
24	PB165167BL	PBS167	MB	12/02/24 17:43		Kareem	OK
25	PB165167BS	LCS167	LCS	12/02/24 17:48		Kareem	OK
26	PB165169BL	PBS169	MB	12/02/24 17:52		Kareem	OK
27	PB165169BSRE	LCS169	LCS	12/02/24 17:57	Not use	Kareem	Not Ok
28	P4939-10	MBHHW8	SAM	12/02/24 18:01		Kareem	OK
29	P4939-11	MBHHW8D	DUP	12/02/24 18:18		Kareem	OK
30	P4939-10L	MBHHW8L	SD	12/02/24 18:23		Kareem	OK
31	P4939-12	MBHHW8S	MS	12/02/24 18:27	MS fail for Se(Below RL)	Kareem	OK
32	P4933-20	MBHHX4	SAM	12/02/24 18:31	MS fail for all parameters	Kareem	Not Ok
33	CCV072	CCV072	CCV	12/02/24 18:40		Kareem	OK
34	CCB072	CCB072	CCB	12/02/24 18:45		Kareem	OK
35	P4917-03	MX1009	SAM	12/02/24 18:50		Kareem	OK
36	P4917-01	MX1007	SAM	12/02/24 18:54	Be high	Kareem	Dilution
37	P4917-01DL	MX1007	SAM	12/02/24 19:02	2X for Be,Still high	Kareem	Dilution
38	P4917-01DL2	MX1007	SAM	12/02/24 19:16	5X for Be	Kareem	Confirms

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133698

Review By	Sarabjit Jaswal	Review On	12/3/2024 10:24:06 PM
Supervise By	Kareem Khairalla	Supervise On	12/5/2024 8:14:16 PM

STD. NAME	STD REF.#
ICAL Standard	MP83134,MP83142,MP83140,MP83139,MP83138,MP83137,MP83136
ICV Standard	MP83143
CCV Standard	MP83146
ICSA Standard	MP83144,MP83145
CRI Standard	
LCS Standard	MP83141
Chk Standard	MP83148,MP83149

39	PB165240BL	PBW240	MB	12/02/24 19:25		Kareem	OK
40	PB165240BS	LCS240	LCS	12/02/24 19:29		Kareem	OK
41	PB165239BL	PBS239	MB	12/02/24 19:34		Kareem	OK
42	PB165239BS	LCS239	LCS	12/02/24 19:38		Kareem	OK
43	PB165169BS	LCS169	LCS	12/02/24 19:43		Kareem	OK
44	CCV073	CCV073	CCV	12/02/24 19:47		Kareem	OK
45	CCB073	CCB073	CCB	12/02/24 19:52		Kareem	OK
46	P4933-21	MBHHX4D	DUP	12/02/24 19:56	MS fail for all parameters	Kareem	Not Ok
47	P4933-20L	MBHHX4L	SD	12/02/24 20:01	MS fail for all parameters	Kareem	Not Ok
48	P4933-22	MBHHX4S	MS	12/02/24 20:05	MS fail for all parameters	Kareem	Not Ok
49	P4912-04	MBHHJ4	SAM	12/02/24 20:10		Kareem	OK
50	P4912-05	MBHHJ4D	DUP	12/02/24 20:14		Kareem	OK
51	P4912-04L	MBHHJ4L	SD	12/02/24 20:18		Kareem	OK
52	P4912-06	MBHHJ4S	MS	12/02/24 20:23	MS fail for Cu(617.0452ppb), Se(Below RL), Zn(3393.068ppb)	Kareem	OK
53	P4932-03	MBHHQ2D	DUP	12/02/24 20:31		Kareem	OK
54	P4932-02	MBHHQ2	SAM	12/02/24 20:36		Kareem	OK
55	P4932-02L	MBHHQ2L	SD	12/02/24 20:40		Kareem	OK
56	P4932-04	MBHHQ2S	MS	12/02/24 20:45	MS fail for Zn(2524.072ppb)	Kareem	OK

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Instrument ID: P5

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Supervise By	Kareem Khairalla	Supervise On	12/5/2024 8:14:16 PM

STD. NAME	STD REF.#
ICAL Standard	MP83134,MP83142,MP83140,MP83139,MP83138,MP83137,MP83136
ICV Standard	MP83143
CCV Standard	MP83146
ICSA Standard	MP83144,MP83145
CRI Standard	
LCS Standard	MP83141
Chk Standard	MP83148,MP83149

57	P4914-11	MBHHK4	SAM	12/02/24 20:49		Kareem	OK
58	P4914-12	MBHHK4D	DUP	12/02/24 20:53		Kareem	OK
59	P4914-11L	MBHHK4L	SD	12/02/24 20:58		Kareem	OK
60	P4914-13	MBHHK4S	MS	12/02/24 21:02	MS fail for Cu(497.7801ppb)	Kareem	OK
61	P4915-08	MBHHM8	SAM	12/02/24 21:06		Kareem	OK
62	P4915-09	MBHHM8D	DUP	12/02/24 21:11		Kareem	OK
63	P4915-08L	MBHHM8L	SD	12/02/24 21:15		Kareem	OK
64	P4915-10	MBHHM8S	MS	12/02/24 21:20	MS fail for Se(Below RL)	Kareem	OK
65	P4915-06	MBHHM6	SAM	12/02/24 21:24		Kareem	OK
66	CCV074	CCV074	CCV	12/02/24 21:29		Kareem	OK
67	CCB074	CCB074	CCB	12/02/24 21:33		Kareem	OK
68	P4933-14	MBHHS4	SAM	12/02/24 21:38		Kareem	OK
69	P4939-01	MBHHS5	SAM	12/02/24 21:42		Kareem	OK
70	P4939-02	MBHHS6	SAM	12/02/24 21:47		Kareem	OK
71	P4939-03	MBHHT6	SAM	12/02/24 21:51		Kareem	OK
72	P4939-04	MBHHT7	SAM	12/02/24 21:55		Kareem	OK
73	P4939-05	MBHHT8	SAM	12/02/24 22:00		Kareem	OK
74	P4939-06	MBHHT9	SAM	12/02/24 22:04		Kareem	OK
75	P4939-07	MBHHW0	SAM	12/02/24 22:08		Kareem	OK

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Daily Analysis Runlog For Sequence/QCBatch ID # LB133698

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Supervise By	Kareem Khairalla	Supervise On	12/5/2024 8:14:16 PM

STD. NAME	STD REF.#
ICAL Standard	MP83134,MP83142,MP83140,MP83139,MP83138,MP83137,MP83136
ICV Standard	MP83143
CCV Standard	MP83146
ICSA Standard	MP83144,MP83145
CRI Standard	
LCS Standard	MP83141
Chk Standard	MP83148,MP83149

76	P4939-08	MBHHW6	SAM	12/02/24 22:13		Kareem	OK
77	P4939-09	MBHHW7	SAM	12/02/24 22:17		Kareem	OK
78	P4939-13	MBHHX5	SAM	12/02/24 22:22		Kareem	OK
79	P4939-14	MBHHX6	SAM	12/02/24 22:26		Kareem	OK
80	P4939-15	MBHHY5	SAM	12/02/24 22:30		Kareem	OK
81	P4939-16	MBHHY6	SAM	12/02/24 22:35		Kareem	OK
82	P4939-17	MBHHY7	SAM	12/02/24 22:39		Kareem	OK
83	P4939-18	MBHHY8	SAM	12/02/24 22:43		Kareem	OK
84	P4939-19	MBHHY9	SAM	12/02/24 22:48		Kareem	OK
85	P4939-20	MBHHZ0	SAM	12/02/24 22:53		Kareem	OK
86	P4939-21	MBHHZ1	SAM	12/02/24 22:57		Kareem	OK
87	P4939-22	MBHHZ2	SAM	12/02/24 23:02	Cu high	Kareem	Dilution
88	CCV075	CCV075	CCV	12/02/24 23:06		Kareem	OK
89	CCB075	CCB075	CCB	12/02/24 23:10		Kareem	OK
90	P4933-01	MBHHR1	SAM	12/02/24 23:15		Kareem	OK
91	P4933-02	MBHHR2	SAM	12/02/24 23:19		Kareem	OK
92	P4933-03	MBHHR3	SAM	12/02/24 23:24		Kareem	OK
93	P4933-04	MBHHR4	SAM	12/02/24 23:28		Kareem	OK
94	P4933-05	MBHHR5	SAM	12/02/24 23:32	Mn high	Kareem	Dilution
95	P4933-06	MBHHR6	SAM	12/02/24 23:37		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133698

Review By	Sarabjit Jaswal	Review On	12/3/2024 10:24:06 PM
Supervise By	Kareem Khairalla	Supervise On	12/5/2024 8:14:16 PM

STD. NAME	STD REF.#
ICAL Standard	MP83134,MP83142,MP83140,MP83139,MP83138,MP83137,MP83136
ICV Standard	MP83143
CCV Standard	MP83146
ICSA Standard	MP83144,MP83145
CRI Standard	
LCS Standard	MP83141
Chk Standard	MP83148,MP83149

96	P4933-07	MBHHR7	SAM	12/02/24 23:41		Kareem	OK
97	P4933-08	MBHHR8	SAM	12/02/24 23:45		Kareem	OK
98	P4933-09	MBHHR9	SAM	12/02/24 23:50		Kareem	OK
99	P4933-10	MBHHS0	SAM	12/02/24 23:55		Kareem	OK
100	P4933-11	MBHHS1	SAM	12/02/24 23:59		Kareem	OK
101	P4933-12	MBHHS2	SAM	12/03/24 00:03		Kareem	OK
102	P4933-13	MBHHS3	SAM	12/03/24 00:08		Kareem	OK
103	P4933-15	MBHHW9	SAM	12/03/24 00:12		Kareem	OK
104	P4933-16	MBHHX0	SAM	12/03/24 00:16		Kareem	OK
105	P4933-17	MBHHX1	SAM	12/03/24 00:21		Kareem	OK
106	P4933-18	MBHHX2	SAM	12/03/24 00:25	Not use	Kareem	Not Ok
107	P4933-19	MBHHX3	SAM	12/03/24 00:30		Kareem	OK
108	P4912-01	MBHHJ1	SAM	12/03/24 00:34	Not use	Kareem	Not Ok
109	P4912-02	MBHHJ2	SAM	12/03/24 00:38	Not use	Kareem	Not Ok
110	CCV076	CCV076	CCV	12/03/24 00:43		Kareem	OK
111	CCB076	CCB076	CCB	12/03/24 00:47		Kareem	OK
112	P4912-03	MBHHJ3	SAM	12/03/24 00:52	Not use	Kareem	Not Ok
113	P4912-07	MBHHJ5	SAM	12/03/24 00:56	Not use	Kareem	Not Ok
114	P4912-08	MBHHJ6	SAM	12/03/24 01:01	Not use	Kareem	Not Ok
115	P4912-09	MBHHJ7	SAM	12/03/24 01:05	Not use	Kareem	Not Ok

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133698

Review By	Sarabjit Jaswal	Review On	12/3/2024 10:24:06 PM
Supervise By	Kareem Khairalla	Supervise On	12/5/2024 8:14:16 PM

STD. NAME	STD REF.#
ICAL Standard	MP83134,MP83142,MP83140,MP83139,MP83138,MP83137,MP83136
ICV Standard	MP83143
CCV Standard	MP83146
ICSA Standard	MP83144,MP83145
CRI Standard	
LCS Standard	MP83141
Chk Standard	MP83148,MP83149

116	P4912-10	MBHHJ8	SAM	12/03/24 01:09	Not use	Kareem	Not Ok
117	P4912-11	MBHHJ9	SAM	12/03/24 01:14	Not use	Kareem	Not Ok
118	P4912-12	MBHHK0	SAM	12/03/24 01:18	Not use	Kareem	Not Ok
119	P4912-13	MBHHK1	SAM	12/03/24 01:22	Not use	Kareem	Not Ok
120	P4912-14	MBHHK2	SAM	12/03/24 01:27	Not use	Kareem	Not Ok
121	P4912-15	MBHHK3	SAM	12/03/24 01:31	Not use	Kareem	Not Ok
122	P4912-16	MBHHL8	SAM	12/03/24 01:36	Not use	Kareem	Not Ok
123	P4912-17	MBHHL9	SAM	12/03/24 01:40	Not use	Kareem	Not Ok
124	P4912-18	MBHHM0	SAM	12/03/24 01:44	Not use	Kareem	Not Ok
125	P4912-19	MBHHM1	SAM	12/03/24 01:49	Not use	Kareem	Not Ok
126	P4912-20	MBHHM2	SAM	12/03/24 01:53	Not use	Kareem	Not Ok
127	P4912-21	MBHHM3	SAM	12/03/24 01:57	Not use	Kareem	Not Ok
128	P4912-22	MBHHM4	SAM	12/03/24 02:02	Not use	Kareem	Not Ok
129	P4932-01	MBHHQ1	SAM	12/03/24 02:06	Not use	Kareem	Not Ok
130	P4932-05	MBHHQ3	SAM	12/03/24 02:11	Not use	Kareem	Not Ok
131	P4932-06	MBHHQ4	SAM	12/03/24 02:15	Not use	Kareem	Not Ok
132	CCV077	CCV077	CCV	12/03/24 02:19	%RSD fail for Ag, Zn	Kareem	OK
133	CCB077	CCB077	CCB	12/03/24 02:24		Kareem	OK
134	P4932-07	MBHHQ5	SAM	12/03/24 02:28	Not use	Kareem	Not Ok
135	P4932-08	MBHHQ6	SAM	12/03/24 02:33	Not use	Kareem	Not Ok

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133698

Review By	Sarabjit Jaswal	Review On	12/3/2024 10:24:06 PM
Supervise By	Kareem Khairalla	Supervise On	12/5/2024 8:14:16 PM

STD. NAME	STD REF.#
ICAL Standard	MP83134,MP83142,MP83140,MP83139,MP83138,MP83137,MP83136
ICV Standard	MP83143
CCV Standard	MP83146
ICSA Standard	MP83144,MP83145
CRI Standard	
LCS Standard	MP83141
Chk Standard	MP83148,MP83149

136	P4932-09	MBHHQ7	SAM	12/03/24 02:37	Not use	Kareem	Not Ok
137	P4932-10	MBHHQ8	SAM	12/03/24 02:41	Not use	Kareem	Not Ok
138	P4932-11	MBHHQ9	SAM	12/03/24 02:46	Not use	Kareem	Not Ok
139	P4932-12	MBHHP1	SAM	12/03/24 02:50	Not use	Kareem	Not Ok
140	P4932-13	MBHHP2	SAM	12/03/24 02:55	Not use	Kareem	Not Ok
141	P4932-14	MBHHP3	SAM	12/03/24 02:59	Not use	Kareem	Not Ok
142	P4932-15	MBHHP4	SAM	12/03/24 03:03	Not use	Kareem	Not Ok
143	P4932-16	MBHHP5	SAM	12/03/24 03:08	Not use	Kareem	Not Ok
144	P4932-17	MBHHP6	SAM	12/03/24 03:12	Not use	Kareem	Not Ok
145	P4932-18	MBHHP7	SAM	12/03/24 03:17	Not use	Kareem	Not Ok
146	P4932-19	MBHHP8	SAM	12/03/24 03:21	Not use	Kareem	Not Ok
147	P4932-20	MBHHP9	SAM	12/03/24 03:25	Not use	Kareem	Not Ok
148	P4932-21	MBHHQ0	SAM	12/03/24 03:30	Not use	Kareem	Not Ok
149	P4932-22	MBHHR0	SAM	12/03/24 03:34	Not use	Kareem	Not Ok
150	P4914-01	MBHHF2	SAM	12/03/24 03:38	Not use	Kareem	Not Ok
151	P4914-02	MBHHF3	SAM	12/03/24 03:43	Not use	Kareem	Not Ok
152	P4914-03	MBHHF4	SAM	12/03/24 03:47	Not use	Kareem	Not Ok
153	P4914-04	MBHHF5	SAM	12/03/24 03:52	Not use	Kareem	Not Ok
154	CCV078	CCV078	CCV	12/03/24 03:56	%RSD fail for Cr, Ag, Zn	Kareem	OK
155	CCB078	CCB078	CCB	12/03/24 04:00		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133698

Review By	Sarabjit Jaswal	Review On	12/3/2024 10:24:06 PM
Supervise By	Kareem Khairalla	Supervise On	12/5/2024 8:14:16 PM

STD. NAME	STD REF.#
ICAL Standard	MP83134,MP83142,MP83140,MP83139,MP83138,MP83137,MP83136
ICV Standard	MP83143
CCV Standard	MP83146
ICSA Standard	MP83144,MP83145
CRI Standard	
LCS Standard	MP83141
Chk Standard	MP83148,MP83149

156	P4914-05	MBHHF6	SAM	12/03/24 04:05	Not use	Kareem	Not Ok
157	P4914-06	MBHHF7	SAM	12/03/24 04:09	Not use	Kareem	Not Ok
158	P4914-07	MBHHF8	SAM	12/03/24 04:14	Not use	Kareem	Not Ok
159	P4914-08	MBHHF9	SAM	12/03/24 04:18	Not use	Kareem	Not Ok
160	P4914-09	MBHHG0	SAM	12/03/24 04:22	Not use	Kareem	Not Ok
161	P4914-10	MBHHG1	SAM	12/03/24 04:27	Not use	Kareem	Not Ok
162	P4914-14	MBHHK5	SAM	12/03/24 04:31	Not use	Kareem	Not Ok
163	P4914-15	MBHHK6	SAM	12/03/24 04:36	Not use	Kareem	Not Ok
164	P4914-16	MBHHK7	SAM	12/03/24 04:40	Not use	Kareem	Not Ok
165	P4914-17	MBHHK8	SAM	12/03/24 04:44	Not use	Kareem	Not Ok
166	P4914-18	MBHHK9	SAM	12/03/24 04:49	Not use	Kareem	Not Ok
167	P4914-19	MBHHL0	SAM	12/03/24 04:53	Not use	Kareem	Not Ok
168	P4914-20	MBHHL1	SAM	12/03/24 04:57	Not use	Kareem	Not Ok
169	P4914-21	MBHHL2	SAM	12/03/24 05:02	Not use	Kareem	Not Ok
170	P4914-22	MBHHL3	SAM	12/03/24 05:06	Not use	Kareem	Not Ok
171	P4915-01	MBHHL4	SAM	12/03/24 05:11	Not use	Kareem	Not Ok
172	P4915-02	MBHHL5	SAM	12/03/24 05:15	Not use	Kareem	Not Ok
173	P4915-03	MBHHL6	SAM	12/03/24 05:19	Not use	Kareem	Not Ok
174	P4915-04	MBHHL7	SAM	12/03/24 05:24	Not use	Kareem	Not Ok
175	P4915-05	MBHHM5	SAM	12/03/24 05:28	Not use	Kareem	Not Ok

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133698

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Supervise By	Kareem Khairalla	Supervise On	12/5/2024 8:14:16 PM

STD. NAME	STD REF.#
ICAL Standard	MP83134,MP83142,MP83140,MP83139,MP83138,MP83137,MP83136
ICV Standard	MP83143
CCV Standard	MP83146
ICSA Standard	MP83144,MP83145
CRI Standard	
LCS Standard	MP83141
Chk Standard	MP83148,MP83149

176	CCV079	CCV079	CCV	12/03/24 05:33		Kareem	OK
177	CCB079	CCB079	CCB	12/03/24 05:37		Kareem	OK
178	P4915-07	MBHHM7	SAM	12/03/24 05:42		Kareem	OK
179	P4915-11	MBHHM9	SAM	12/03/24 05:46		Kareem	OK
180	P4915-12	MBHHN0	SAM	12/03/24 05:50		Kareem	OK
181	P4915-13	MBHHN1	SAM	12/03/24 05:55		Kareem	OK
182	P4915-14	MBHHN2	SAM	12/03/24 05:59		Kareem	OK
183	P4915-15	MBHHN3	SAM	12/03/24 06:03		Kareem	OK
184	P4915-16	MBHHN4	SAM	12/03/24 06:08		Kareem	OK
185	P4915-17	MBHHN5	SAM	12/03/24 06:12		Kareem	OK
186	P4915-18	MBHHN6	SAM	12/03/24 06:17		Kareem	OK
187	P4915-19	MBHHN7	SAM	12/03/24 06:21		Kareem	OK
188	P4915-20	MBHHN8	SAM	12/03/24 06:25		Kareem	OK
189	P4915-21	MBHHN9	SAM	12/03/24 06:30		Kareem	OK
190	P4915-22	MBHHP0	SAM	12/03/24 06:34		Kareem	OK
191	CCV080	CCV080	CCV	12/03/24 06:39		Kareem	OK
192	CCB080	CCB080	CCB	12/03/24 06:43		Kareem	OK
193	P4907-04DL	MBHHE4	SAM	12/03/24 06:48	2X for Ca	Kareem	Confirms
194	P4907-05DL	MBHHE5	SAM	12/03/24 06:52	2X for Ca	Kareem	Confirms
195	P4906-18DL	MBHHA3	SAM	12/03/24 06:57	2X for Ca	Kareem	Confirms

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133698

Review By	Sarabjit Jaswal	Review On	12/3/2024 10:24:06 PM
Supervise By	Kareem Khairalla	Supervise On	12/5/2024 8:14:16 PM

STD. NAME	STD REF.#
ICAL Standard	MP83134,MP83142,MP83140,MP83139,MP83138,MP83137,MP83136
ICV Standard	MP83143
CCV Standard	MP83146
ICSA Standard	MP83144,MP83145
CRI Standard	
LCS Standard	MP83141
Chk Standard	MP83148,MP83149

196	P4906-19DL	MBHHA4	SAM	12/03/24 07:01	2X for Ca	Kareem	Confirms
197	P4902-01	E29Y8	SAM	12/03/24 07:06	Ca high	Kareem	Dilution
198	P4902-02	E2A12	SAM	12/03/24 07:10		Kareem	OK
199	P4902-03	E2A12D	DUP	12/03/24 07:15		Kareem	OK
200	P4902-02L	E2A12L	SD	12/03/24 07:20		Kareem	OK
201	P4902-04	E2A12S	MS	12/03/24 07:24		Kareem	OK
202	PB165215BL	PBS215	MB	12/03/24 07:29		Kareem	OK
203	PB165215BS	LCS215	LCS	12/03/24 07:33		Kareem	OK
204	CCV081	CCV081	CCV	12/03/24 07:38		Kareem	OK
205	CCB081	CCB081	CCB	12/03/24 07:42		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133949

Review By	Sarabjit Jaswal	Review On	12/16/2024 12:48:54 AM
Supervise By	Mohan Bera	Supervise On	12/16/2024 12:49:43 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	M5819
LCS Standard	
Chk Standard	MP83513,MP83514

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	12/13/24 11:23		Kareem	OK
2	S1	S01	CAL2	12/13/24 11:27		Kareem	OK
3	S2	S02	CAL3	12/13/24 11:31		Kareem	OK
4	S3	S03	CAL4	12/13/24 11:35		Kareem	OK
5	S4	S04	CAL5	12/13/24 11:39		Kareem	OK
6	S5	S05	CAL6	12/13/24 11:43		Kareem	OK
7	S6	S06	CAL7	12/13/24 11:47		Kareem	OK
8	ICV002	ICV002	ICV	12/13/24 12:40	Inst. paused for calibration review	Kareem	OK
9	ICB002	ICB002	ICB	12/13/24 13:14	Inst. paused for review	Kareem	OK
10	ICSA002	ICSA002	ICSA	12/13/24 13:18		Kareem	OK
11	ICSAB002	ICSAB002	ICSAB	12/13/24 13:22		Kareem	OK
12	CCV007	CCV007	CCV	12/13/24 13:45	Inst. paused for review	Kareem	OK
13	CCB007	CCB007	CCB	12/13/24 13:49		Kareem	OK
14	P4976-01DL	ME29D7	SAM	12/13/24 13:53	2x for Ca	Kareem	Confirms
15	P4976-02DL	ME29D8	SAM	12/13/24 13:56	2x for Ca	Kareem	Confirms
16	P4976-03DL	ME29D9	SAM	12/13/24 14:00	2x for Ca	Kareem	Confirms
17	P4976-05DL	ME29E1	SAM	12/13/24 14:04	2x for Ca	Kareem	Confirms
18	P4976-06DL	ME29E2	SAM	12/13/24 14:08	2x for Ca	Kareem	Confirms

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133949

Review By	Sarabjit Jaswal	Review On	12/16/2024 12:48:54 AM
Supervise By	Mohan Bera	Supervise On	12/16/2024 12:49:43 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	M5819
LCS Standard	
Chk Standard	MP83513,MP83514

19	P4976-07DL	ME29E3	SAM	12/13/24 14:12	2x for Ca	Kareem	Confirms
20	P4976-08DL	ME29E4	SAM	12/13/24 14:16	2x for Ca	Kareem	Confirms
21	P4976-09DL	ME29E4D	DUP	12/13/24 14:20	2x for Ca	Kareem	Confirms
22	P4976-08LDL	ME29E4L	SD	12/13/24 14:24	10x for Ca	Kareem	Confirms
23	P4976-10DL	ME29E4S	MS	12/13/24 14:28	10x for Ca	Kareem	Confirms
24	P4976-11DL	ME29E5	SAM	12/13/24 14:32	2x for Ca	Kareem	Confirms
25	P4976-12DL	ME29E6	SAM	12/13/24 14:36	2x for Ca	Kareem	Confirms
26	P4976-13DL	ME29E7	SAM	12/13/24 14:39	2x for Ca	Kareem	Confirms
27	P4976-14DL	ME29E8	SAM	12/13/24 14:43	2x for Ca	Kareem	Confirms
28	P4976-15DL	ME29E9	SAM	12/13/24 14:47	2x for Ca	Kareem	Confirms
29	P4976-16DL	ME29F0	SAM	12/13/24 14:51	2x for Ca	Kareem	Confirms
30	P4976-17DL	ME29F1	SAM	12/13/24 14:55	2x for Ca	Kareem	Confirms
31	P4976-18DL	ME29F2	SAM	12/13/24 14:59	2x for Ca	Kareem	Confirms
32	P4976-19DL	ME29F3	SAM	12/13/24 15:03	2x for Ca	Kareem	Confirms
33	P4976-20DL	ME29F4	SAM	12/13/24 15:07	2x for Ca	Kareem	Confirms
34	CCV008	CCV008	CCV	12/13/24 15:20		Kareem	OK
35	CCB008	CCB008	CCB	12/13/24 15:24		Kareem	OK
36	P4976-21DL	ME29F5	SAM	12/13/24 15:28	2x for Ca	Kareem	Confirms
37	P4977-01DL	ME29F6	SAM	12/13/24 15:32	2x for Ca	Kareem	Confirms
38	P4977-02DL	ME29F7	SAM	12/13/24 15:36	2x for Ca	Kareem	Confirms

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133949

Review By	Sarabjit Jaswal	Review On	12/16/2024 12:48:54 AM
Supervise By	Mohan Bera	Supervise On	12/16/2024 12:49:43 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	M5819
LCS Standard	
Chk Standard	MP83513,MP83514

39	P4977-03DL	ME29F8	SAM	12/13/24 15:40	2x for Ca	Kareem	Confirms
40	P4977-04DL	ME29F8D	DUP	12/13/24 15:44	2x for Ca	Kareem	Confirms
41	P4977-03LDL	ME29F8L	SD	12/13/24 15:48	10x for Ca	Kareem	Confirms
42	P4977-05DL	ME29F8S	MS	12/13/24 15:52	10x for Ca	Kareem	Confirms
43	P4977-06DL	ME29F9	SAM	12/13/24 15:56	2x for Ca	Kareem	Confirms
44	P4977-07DL	ME29G0	SAM	12/13/24 15:59	2x for Ca	Kareem	Confirms
45	P4977-08DL	ME29G1	SAM	12/13/24 16:03	2x for Ca	Kareem	Confirms
46	P4977-09DL	ME29G2	SAM	12/13/24 16:07	2x for Ca	Kareem	Confirms
47	P4981-10	MBHJA7	SAM	12/13/24 16:11	Ca high	Kareem	Dilution
48	P4981-11	MBHJA8	SAM	12/13/24 16:15		Kareem	OK
49	P4981-12	MBHJA9	SAM	12/13/24 16:19	Ca high	Kareem	Dilution
50	P4981-13	MBHJC4	SAM	12/13/24 16:23		Kareem	OK
51	P4981-14	MBHJC5	SAM	12/13/24 16:27		Kareem	OK
52	P4981-15	MBHJC6	SAM	12/13/24 16:31		Kareem	OK
53	P4981-16	MBHJC7	SAM	12/13/24 16:34	Ca high	Kareem	Dilution
54	P4981-17	MBHJC8	SAM	12/13/24 16:38	Ca high	Kareem	Dilution
55	P4981-21	MBHJD0	SAM	12/13/24 16:42	Ca high	Kareem	Dilution
56	CCV009	CCV009	CCV	12/13/24 17:02		Kareem	OK
57	CCB009	CCB009	CCB	12/13/24 17:05		Kareem	OK
58	P4981-22	MBHJE8	SAM	12/13/24 17:09		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133949

Review By	Sarabjit Jaswal	Review On	12/16/2024 12:48:54 AM
Supervise By	Mohan Bera	Supervise On	12/16/2024 12:49:43 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	M5819
LCS Standard	
Chk Standard	MP83513,MP83514

59	P4983-01	MBHJ97	SAM	12/13/24 17:13	Ca high	Kareem	Dilution
60	P4983-02	MBHJC3	SAM	12/13/24 17:17		Kareem	OK
61	P4983-03	MBHJE5	SAM	12/13/24 17:21		Kareem	OK
62	P4983-04	MBHJE6	SAM	12/13/24 17:24	Ca high	Kareem	Dilution
63	P4983-05	MBHJB6	SAM	12/13/24 17:28	Ca high	Kareem	Dilution
64	P4983-06	MBHJE7	SAM	12/13/24 17:32		Kareem	OK
65	P4983-07	MBHJF9	SAM	12/13/24 17:37	Ca high	Kareem	Dilution
66	P4880-14A	MBHH91A	PS	12/13/24 17:40	PS for Se - 0.07ml mp83567-10ml sample	Kareem	OK
67	P5042-01A	MBHKB0A	PS	12/13/24 17:44	Not Use - PS for Se - 0.07ml mp83567-10ml sample	Kareem	Not Ok
68	P5041-01A	MBHK78A	PS	12/13/24 17:48	PS for Se - 0.07ml mp83567-10ml sample	Kareem	OK
69	P5040-01A	MBHKD6A	PS	12/13/24 17:52	PS for Se - 0.07ml mp83567-10ml sample	Kareem	OK
70	P4905-02A	MBHHA6A	PS	12/13/24 17:56	PS for As - 0.0023ml m5801, Ba - 0.047ml m5387, Cu - 0.009ml m5751, Se - 0.07ml mp83567, Zn - 0.046ml m5819 - 10ml sample	Kareem	OK
71	P4907-01A	MBHHE1A	PS	12/13/24 17:59	PS for Be,Se(0.01ML MP83672,0.07ML MP83673-10ML SAMPLE)	Kareem	OK
72	P4932-02A	MBHHQ2A	PS	12/13/24 18:03	PS for Zn - 0.05ml m5819 - 10ml sample	Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133949

Review By	Sarabjit Jaswal	Review On	12/16/2024 12:48:54 AM
Supervise By	Mohan Bera	Supervise On	12/16/2024 12:49:43 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	M5819
LCS Standard	
Chk Standard	MP83513,MP83514

73	P4933-20A	MBHHX4A	PS	12/13/24 18:07	PS for Se - 0.07ml mp83567, Zn - 0.039ml m5819 - 10ml sample	Kareem	OK
74	P4983-08	MBHJG0	SAM	12/13/24 18:11		Kareem	OK
75	P4983-09	MBHJG1	SAM	12/13/24 18:15		Kareem	OK
76	P4983-13	MBHJG3	SAM	12/13/24 18:18	Ca high	Kareem	Dilution
77	P4983-14	MBHJG4	SAM	12/13/24 18:22	Ca high	Kareem	Dilution
78	CCV010	CCV010	CCV	12/13/24 18:32		Kareem	OK
79	CCB010	CCB010	CCB	12/13/24 18:45	Inst. paused for review	Kareem	OK
80	P4983-15	MBHJG5	SAM	12/13/24 18:49	Ca high	Kareem	Dilution
81	P4983-16	MBHJG6	SAM	12/13/24 18:53	Ca high	Kareem	Dilution
82	P4983-17	MBHJG7	SAM	12/13/24 18:57	Ca high	Kareem	Dilution
83	P4983-18	MBHJG8	SAM	12/13/24 19:00	Ca high	Kareem	Dilution
84	P4983-19	MBHJG9	SAM	12/13/24 19:04	Ca high	Kareem	Dilution
85	P4983-20	MBHJH0	SAM	12/13/24 19:08	Ca high	Kareem	Dilution
86	P4983-21	MBHJH1	SAM	12/13/24 19:12		Kareem	OK
87	P4940-16DL	MBHHX8	SAM	12/13/24 19:16	2x for Ca	Kareem	Confirms
88	P4940-17DL	MBHHX8D	DUP	12/13/24 19:20	2x for Ca	Kareem	Confirms
89	P4940-16LDL	MBHHX8L	SD	12/13/24 19:24	10x for Ca	Kareem	Confirms
90	P4940-18DL	MBHHX8S	MS	12/13/24 19:28	2x for Ca	Kareem	Confirms
91	P4963-15DL	MBHJ13	SAM	12/13/24 19:31	5x for Ca	Kareem	Confirms

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133949

Review By	Sarabjit Jaswal	Review On	12/16/2024 12:48:54 AM
Supervise By	Mohan Bera	Supervise On	12/16/2024 12:49:43 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	M5819
LCS Standard	
Chk Standard	MP83513,MP83514

92	P4963-16DL	MBHJ13D	DUP	12/13/24 19:35	5x for Ca	Kareem	Confirms
93	P4963-15LDL	MBHJ13L	SD	12/13/24 19:39	25x for Ca	Kareem	Confirms
94	P4963-17DL	MBHJ13S	MS	12/13/24 19:43	Not USe	Kareem	Not Ok
95	P4964-01DL	MBHJ01	SAM	12/13/24 19:47	2x for Ca	Kareem	Confirms
96	P4964-02DL	MBHJ01D	DUP	12/13/24 19:51	2x for Ca	Kareem	Confirms
97	P4964-01LDL	MBHJ01L	SD	12/13/24 19:55	10x for Ca	Kareem	Confirms
98	P4964-03DL	MBHJ01S	MS	12/13/24 19:59	2x for Ca	Kareem	Confirms
99	P4981-18DL	MBHJC9	SAM	12/13/24 20:02	2x for Ca	Kareem	Confirms
100	CCV011	CCV011	CCV	12/13/24 20:18		Kareem	OK
101	CCB011	CCB011	CCB	12/13/24 20:22		Kareem	OK
102	P4981-19DL	MBHJC9D	DUP	12/13/24 20:26	2x for Ca	Kareem	Confirms
103	P4981-18LDL	MBHJC9L	SD	12/13/24 20:30	10x for Ca	Kareem	Confirms
104	P4981-20DL	MBHJC9S	MS	12/13/24 20:34	2x for Ca	Kareem	Confirms
105	P4932-01	MBHHQ1	SAM	12/13/24 20:38		Kareem	OK
106	P4932-05	MBHHQ3	SAM	12/13/24 20:42		Kareem	OK
107	P4932-06	MBHHQ4	SAM	12/13/24 20:45		Kareem	OK
108	P4932-07	MBHHQ5	SAM	12/13/24 20:49		Kareem	OK
109	P4932-08	MBHHQ6	SAM	12/13/24 20:53		Kareem	OK
110	P4932-09	MBHHQ7	SAM	12/13/24 20:57		Kareem	OK
111	P4932-10	MBHHQ8	SAM	12/13/24 21:00		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133949

Review By	Sarabjit Jaswal	Review On	12/16/2024 12:48:54 AM
Supervise By	Mohan Bera	Supervise On	12/16/2024 12:49:43 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	M5819
LCS Standard	
Chk Standard	MP83513,MP83514

112	P4932-11	MBHHQ9	SAM	12/13/24 21:04		Kareem	OK
113	P4932-12	MBHHP1	SAM	12/13/24 21:08		Kareem	OK
114	P4932-13	MBHHP2	SAM	12/13/24 21:12		Kareem	OK
115	P4932-14	MBHHP3	SAM	12/13/24 21:16		Kareem	OK
116	P4932-15	MBHHP4	SAM	12/13/24 21:20		Kareem	OK
117	P4932-16	MBHHP5	SAM	12/13/24 21:23		Kareem	OK
118	P4932-17	MBHHP6	SAM	12/13/24 21:27		Kareem	OK
119	P4932-18	MBHHP7	SAM	12/13/24 21:31		Kareem	OK
120	P4932-19	MBHHP8	SAM	12/13/24 21:35		Kareem	OK
121	P4932-20	MBHHP9	SAM	12/13/24 21:39		Kareem	OK
122	CCV012	CCV012	CCV	12/13/24 21:59		Kareem	OK
123	CCB012	CCB012	CCB	12/13/24 22:03		Kareem	OK
124	P4932-21	MBHHQ0	SAM	12/13/24 22:07		Kareem	OK
125	P4932-22	MBHHR0	SAM	12/13/24 22:11		Kareem	OK
126	P4914-01	MBHHF2	SAM	12/13/24 22:15		Kareem	OK
127	P4914-02	MBHHF3	SAM	12/13/24 22:18		Kareem	OK
128	P4914-03	MBHHF4	SAM	12/13/24 22:22		Kareem	OK
129	P4914-04	MBHHF5	SAM	12/13/24 22:26		Kareem	OK
130	P4914-05	MBHHF6	SAM	12/13/24 22:30		Kareem	OK
131	P4914-06	MBHHF7	SAM	12/13/24 22:33		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133949

Review By	Sarabjit Jaswal	Review On	12/16/2024 12:48:54 AM
Supervise By	Mohan Bera	Supervise On	12/16/2024 12:49:43 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	M5819
LCS Standard	
Chk Standard	MP83513,MP83514

132	P4914-07	MBHHF8	SAM	12/13/24 22:37		Kareem	OK
133	P4914-08	MBHHF9	SAM	12/13/24 22:41		Kareem	OK
134	P4914-09	MBHHG0	SAM	12/13/24 22:45		Kareem	OK
135	P4914-10	MBHHG1	SAM	12/13/24 22:49		Kareem	OK
136	P4914-14	MBHHK5	SAM	12/13/24 22:52		Kareem	OK
137	P4914-15	MBHHK6	SAM	12/13/24 22:56		Kareem	OK
138	P4914-16	MBHHK7	SAM	12/13/24 23:00		Kareem	OK
139	P4914-17	MBHHK8	SAM	12/13/24 23:04		Kareem	OK
140	P4914-18	MBHHK9	SAM	12/13/24 23:08		Kareem	OK
141	P4914-19	MBHHL0	SAM	12/13/24 23:11		Kareem	OK
142	P4914-20	MBHHL1	SAM	12/13/24 23:15		Kareem	OK
143	P4914-21	MBHHL2	SAM	12/13/24 23:19		Kareem	OK
144	CCV013	CCV013	CCV	12/13/24 23:27		Kareem	OK
145	CCB013	CCB013	CCB	12/13/24 23:35	Inst. paused for review	Kareem	OK
146	P4914-22	MBHHL3	SAM	12/13/24 23:39		Kareem	OK
147	P5007-10A	MBHJZ7A	PS	12/13/24 23:42	NOT USE	Kareem	Not Ok
148	P5007-15DL	MBHK00	SAM	12/13/24 23:46	NOT USE	Kareem	Not Ok
149	P5014-12A	MBHJY0A	PS	12/13/24 23:50	NOT USE	Kareem	Not Ok
150	P5015-17A	MBHKQ6A	PS	12/13/24 23:54	NOT USE	Kareem	Not Ok

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133949

Review By	Sarabjit Jaswal	Review On	12/16/2024 12:48:54 AM
Supervise By	Mohan Bera	Supervise On	12/16/2024 12:49:43 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	M5819
LCS Standard	
Chk Standard	MP83513,MP83514

151	P4940-16A	MBHHX8A	PS	12/13/24 23:58	PS for Se,Zn(0.07ML MP83673,0.016ML M5819-10ML SAMPLE)	Kareem	OK
152	P4963-15A	MBHJ13A	PS	12/14/24 00:01	PS for Se(0.07ML MP83673-10ML SAMPLE)	Kareem	OK
153	P4964-01A	MBHJ01A	PS	12/14/24 00:05	PS for Se,Zn(0.07ML MP83673,0.033ML M5819-10ML SAMPLE)	Kareem	OK
154	P4981-18A	MBHJC9A	PS	12/14/24 00:09	PS for Se,Zn(0.07ML MP83673,0.016ML M5819-10ML SAMPLE)	Kareem	OK
155	P4983-10A	MBHJG2A	PS	12/14/24 00:13	PS for Se(0.07ML MP83673-10ML SAMPLE)	Kareem	OK
156	P5015-05DL	MBHKK0	SAM	12/14/24 00:17	NOT USE	Kareem	Not Ok
157	P5015-08DL	MBHKK3	SAM	12/14/24 00:21	NOT USE	Kareem	Not Ok
158	P5015-09DL	MBHKK4	SAM	12/14/24 00:25	NOT USE	Kareem	Not Ok
159	P5015-14DL	MBHKQ2	SAM	12/14/24 00:29	NOT USE	Kareem	Not Ok
160	P4963-18DL	MBHJ14	SAM	12/14/24 00:32	Not Use	Kareem	Not Ok
161	P4963-19DL	MBHJ15	SAM	12/14/24 00:36	2x for Ca,Mg, Still Ca high	Kareem	Dilution
162	P4963-20DL	MBHJ16	SAM	12/14/24 00:40	2x for Ca,Mg, Still Ca high	Kareem	Dilution
163	P4963-21DL	MBHJ17	SAM	12/14/24 00:44	Not use	Kareem	Not Ok
164	P4963-22DL	MBHJ18	SAM	12/14/24 00:48	2x for Ca	Kareem	Confirms
165	CCV014	CCV014	CCV	12/14/24 01:00		Kareem	OK
166	CCB014	CCB014	CCB	12/14/24 01:03		Kareem	OK
167	P4981-01DL	MBHJ56	SAM	12/14/24 01:07	2x for Ca	Kareem	Confirms

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Fax : 908 789 8922

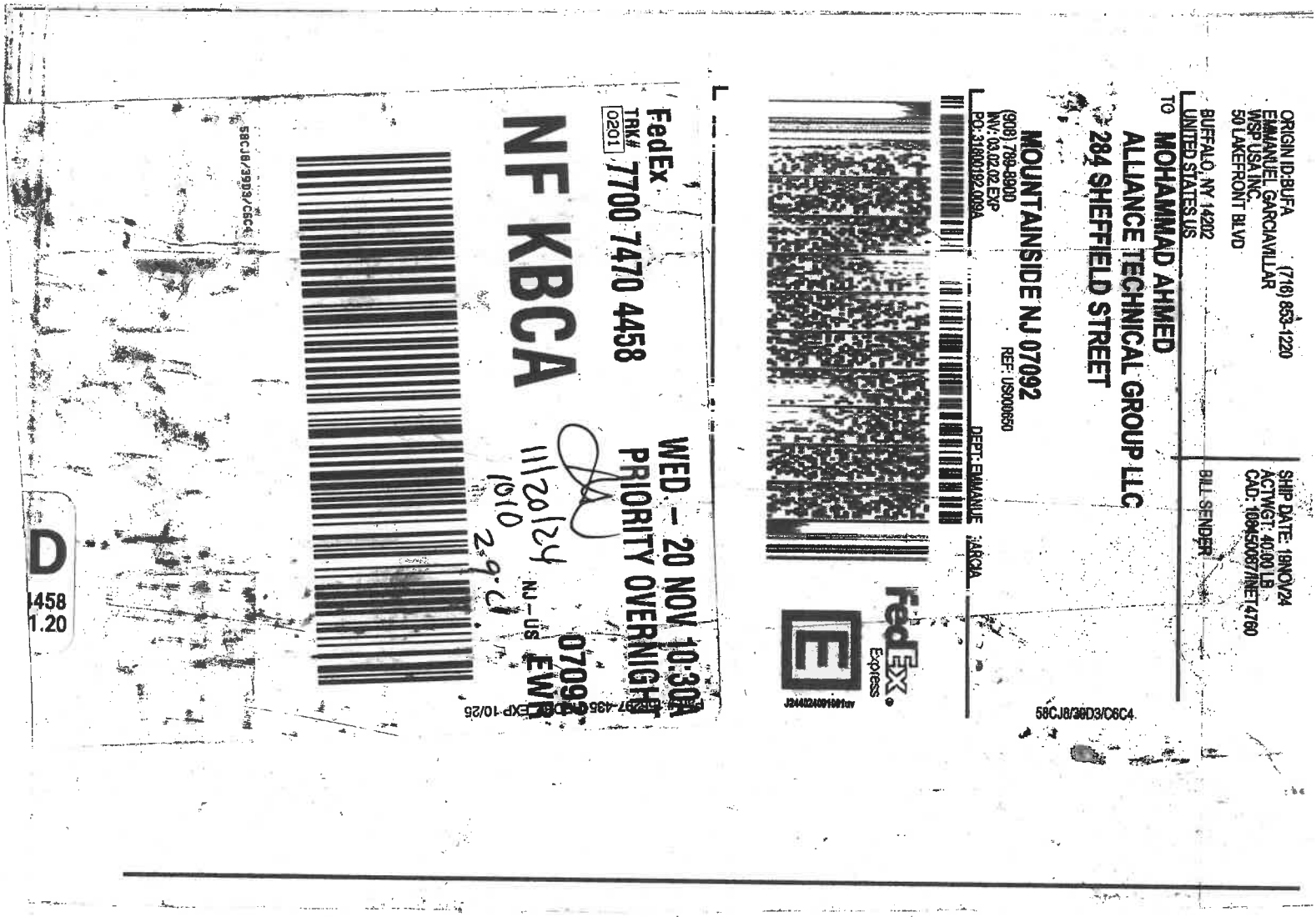
Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133949

Review By	Sarabjit Jaswal	Review On	12/16/2024 12:48:54 AM
Supervise By	Mohan Bera	Supervise On	12/16/2024 12:49:43 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	M5819
LCS Standard	
Chk Standard	MP83513,MP83514

168	P4981-02DL	MBHJ57	SAM	12/14/24 01:11	2x for Ca	Kareem	Confirms
169	P4981-03DL	MBHJ58	SAM	12/14/24 01:15	2x for Ca,Mg, Still Ca high	Kareem	Dilution
170	P4981-04DL	MBHJ59	SAM	12/14/24 01:19	2x for Ca,Mg, Still Ca high	Kareem	Dilution
171	P4981-05DL	MBHJ60	SAM	12/14/24 01:23	2x for Ca,Mg, Still Ca high	Kareem	Dilution
172	P4981-06DL	MBHJ61	SAM	12/14/24 01:27	2x for Ca	Kareem	Confirms
173	P4981-07DL	MBHJ62	SAM	12/14/24 01:30	NOT USE	Kareem	Not Ok
174	P4963-18DL2	MBHJ14	SAM	12/14/24 01:34	5x for Ca	Kareem	Confirms
175	P4963-19DL2	MBHJ15	SAM	12/14/24 01:38	5x for Ca	Kareem	Confirms
176	P4963-20DL2	MBHJ16	SAM	12/14/24 01:42	5x for Ca	Kareem	Confirms
177	P4963-21DL2	MBHJ17	SAM	12/14/24 01:46	5x for Ca	Kareem	Confirms
178	P4963-22DL2	MBHJ18	SAM	12/14/24 01:50	NOT USE	Kareem	Not Ok
179	P4981-03DL2	MBHJ58	SAM	12/14/24 01:54	5x for Ca	Kareem	Confirms
180	P4981-04DL2	MBHJ59	SAM	12/14/24 01:57	5x for Ca	Kareem	Confirms
181	P4981-05DL2	MBHJ60	SAM	12/14/24 02:01	5x for Ca	Kareem	Confirms
182	CCV015	CCV015	CCV	12/14/24 02:06		Kareem	OK
183	CCB015	CCB015	CCB	12/14/24 02:10		Kareem	OK



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WSP USA INC.
50 LAKEFRONT BLVD
BUFFALO, NY 14202
UNITED STATES US

SHIP DATE: 19NOV24
ACTWGT: 40.00 LB
CAD: 108450087/INET4760

BILL SENDER

TO MOHAMMAD AHMED
ALLIANCE TECHNICAL GROUP LLC
284 SHEFFIELD STREET
MOUNTAINSIDE NJ 07092
(718) 789-8900
INV: 13.02.02.EXP
REF: [illegible]
DEPT: EMMANUEL GARCIA

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

Login Summary Report

Order ID :	P4932	Order Date :	11/20/2024 10:10:00 AM	Project Mgr :	Deepak
Client :	USEPA CLP SMO	Project :	51879	Report Type :	USEPA CLP
Contact :	Anita Kapadia	Receive Date :	11/20/2024 10:10:00 AM	EDD Type :	EPA CLP
Date Sign Off :	11/20/2024 11:57:23 AM				

Sample ID	Client ID	Matrix	Sampling Date	Test	Test Group	Method	TAT Days	Fax Due Date	HC Due Date
P4932-01	MBHHQ1	Solid	11/15/2024						
				Metals CLP Full		SFAM_AES	15	12/25/2024	12/25/2024
				Percent Solids		Chemtech -SOP	15	12/25/2024	12/25/2024
P4932-02	MBHHQ2	Solid	11/15/2024						
				Metals CLP Full		SFAM_AES	15	12/25/2024	12/25/2024
				Percent Solids		Chemtech -SOP	15	12/25/2024	12/25/2024
P4932-03	MBHHQ2D	Solid	11/15/2024						
				Metals CLP Full		SFAM_AES	15	12/25/2024	12/25/2024
				Percent Solids		Chemtech -SOP	15	12/25/2024	12/25/2024
P4932-04	MBHHQ2S	Solid	11/15/2024						
				Metals CLP Full		SFAM_AES	15	12/25/2024	12/25/2024
				Percent Solids		Chemtech -SOP	15	12/25/2024	12/25/2024
P4932-05	MBHHQ3	Solid	11/15/2024						
				Metals CLP Full		SFAM_AES	15	12/25/2024	12/25/2024
				Percent Solids		Chemtech -SOP	15	12/25/2024	12/25/2024
P4932-06	MBHHQ4	Solid	11/15/2024						
				Metals CLP Full		SFAM_AES	15	12/25/2024	12/25/2024
				Percent Solids		Chemtech -SOP	15	12/25/2024	12/25/2024
P4932-07	MBHHQ5	Solid	11/15/2024						
				Metals CLP Full		SFAM_AES	15	12/25/2024	12/25/2024
				Percent Solids		Chemtech -SOP	15	12/25/2024	12/25/2024
P4932-08	MBHHQ6	Solid	11/15/2024						
				Metals CLP Full		SFAM_AES	15	12/25/2024	12/25/2024
				Percent Solids		Chemtech -SOP	15	12/25/2024	12/25/2024
P4932-09	MBHHQ7	Solid	11/15/2024						
				Metals CLP Full		SFAM_AES	15	12/25/2024	12/25/2024
				Percent Solids		Chemtech -SOP	15	12/25/2024	12/25/2024
P4932-10	MBHHQ8	Solid	11/15/2024		FD				
				Metals CLP Full		SFAM_AES	15	12/25/2024	12/25/2024
				Percent Solids		Chemtech -SOP	15	12/25/2024	12/25/2024

P4932-11	MBHHQ9	Solid	11/15/2024		FD				
				Metals CLP Full		SFAM_AES	15	12/25/2024	12/25/2024
				Percent Solids		Chemtech -SOP	15	12/25/2024	12/25/2024
P4932-12	MBHHP1	Solid	11/15/2024						
				Metals CLP Full		SFAM_AES	15	12/25/2024	12/25/2024
				Percent Solids		Chemtech -SOP	15	12/25/2024	12/25/2024
P4932-13	MBHHP2	Solid	11/15/2024						
				Metals CLP Full		SFAM_AES	15	12/25/2024	12/25/2024
				Percent Solids		Chemtech -SOP	15	12/25/2024	12/25/2024
P4932-14	MBHHP3	Solid	11/15/2024						
				Metals CLP Full		SFAM_AES	15	12/25/2024	12/25/2024
				Percent Solids		Chemtech -SOP	15	12/25/2024	12/25/2024
P4932-15	MBHHP4	Solid	11/15/2024						
				Metals CLP Full		SFAM_AES	15	12/25/2024	12/25/2024
				Percent Solids		Chemtech -SOP	15	12/25/2024	12/25/2024
P4932-16	MBHHP5	Solid	11/15/2024						
				Metals CLP Full		SFAM_AES	15	12/25/2024	12/25/2024
				Percent Solids		Chemtech -SOP	15	12/25/2024	12/25/2024
P4932-17	MBHHP6	Solid	11/15/2024						
				Metals CLP Full		SFAM_AES	15	12/25/2024	12/25/2024
				Percent Solids		Chemtech -SOP	15	12/25/2024	12/25/2024
P4932-18	MBHHP7	Solid	11/18/2024						
				Metals CLP Full		SFAM_AES	15	12/25/2024	12/25/2024
				Percent Solids		Chemtech -SOP	15	12/25/2024	12/25/2024
P4932-19	MBHHP8	Solid	11/18/2024						
				Metals CLP Full		SFAM_AES	15	12/25/2024	12/25/2024
				Percent Solids		Chemtech -SOP	15	12/25/2024	12/25/2024
P4932-20	MBHHP9	Solid	11/18/2024						
				Metals CLP Full		SFAM_AES	15	12/25/2024	12/25/2024
				Percent Solids		Chemtech -SOP	15	12/25/2024	12/25/2024
P4932-21	MBHHQ0	Solid	11/18/2024						
				Metals CLP Full		SFAM_AES	15	12/25/2024	12/25/2024
				Percent Solids		Chemtech -SOP	15	12/25/2024	12/25/2024
P4932-22	MBHHR0	Solid	11/15/2024		FD				
				Metals CLP Full		SFAM_AES	15	12/25/2024	12/25/2024
				Percent Solids		Chemtech -SOP	15	12/25/2024	12/25/2024

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB165171 **WorkList ID :** 185650 **Department :** Digestion **Date :** 11-21-2024 13:18:20

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4932-01	MBHHQ1	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C21	11/15/2024	SFAM_AES
P4932-02	MBHHQ2	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C21	11/15/2024	SFAM_AES
P4932-03	MBHHQ2D	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C21	11/15/2024	SFAM_AES
P4932-04	MBHHQ2S	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C21	11/15/2024	SFAM_AES
P4932-05	MBHHQ3	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C21	11/15/2024	SFAM_AES
P4932-06	MBHHQ4	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C21	11/15/2024	SFAM_AES
P4932-07	MBHHQ5	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C21	11/15/2024	SFAM_AES
P4932-08	MBHHQ6	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C21	11/15/2024	SFAM_AES
P4932-09	MBHHQ7	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C21	11/15/2024	SFAM_AES
P4932-10	MBHHQ8	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C21	11/15/2024	SFAM_AES
P4932-11	MBHHQ9	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C21	11/15/2024	SFAM_AES
P4932-12	MBHHP1	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C21	11/15/2024	SFAM_AES
P4932-13	MBHHP2	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C21	11/15/2024	SFAM_AES
P4932-14	MBHHP3	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C21	11/15/2024	SFAM_AES
P4932-15	MBHHP4	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C21	11/15/2024	SFAM_AES
P4932-16	MBHHP5	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C21	11/15/2024	SFAM_AES
P4932-17	MBHHP6	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C21	11/15/2024	SFAM_AES
P4932-18	MBHHP7	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C21	11/15/2024	SFAM_AES
P4932-19	MBHHP8	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C21	11/18/2024	SFAM_AES
P4932-20	MBHHP9	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C21	11/18/2024	SFAM_AES
P4932-21	MBHHQ0	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C21	11/18/2024	SFAM_AES

901

Date/Time 11/21/24 12:10

Raw Sample Received by: JSP (Met Dig)

Raw Sample Relinquished by: AP

Date/Time 11/21/24 13:20

Raw Sample Received by: AP

Raw Sample Relinquished by: JSP (Met Dig)

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB165171 **WorkList ID :** 185650 **Department :** Digestion **Date :** 11-21-2024 13:18:20

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4932-22	MBHHR0	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C21	11/15/2024	SFAM_AES

902

Date/Time 11/21/24 12:10

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

Date/Time 11/21/24 13:20

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]