SDG COVER PAGE

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

Lab Code: ACE Case No.: 51879 MA No.: SDG No.: MBHKR8

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MBHKR8	P5060-01	X			
MBHKR8D	P5060-02	X			
MBHKR8S	P5060-03	X			
MBHKW4	P5060-04	X			
MBHKY6	P5060-05	X			
MBHKY7	P5060-06	X			
MBHKY8	P5060-07	X			
MBHKY9	P5060-08	X			
MBHKZ0	P5060-09	X			
MBHKZ1	P5060-10	X			
MBHKZ2	P5060-11	X			
MBHL56	P5060-12	X			
MBHL57	P5060-13	X			
MBHKX1	P5060-14	X			
MBHKX2	P5060-15	X			
MBHKX3	P5060-16	X			
MBHKX4	P5060-17	X			
MBHKX6	P5060-18	X			
MBHKX7	P5060-19	X			
MBHKX8	P5060-20	X			
MBHL58	P5060-21	X			
MBHL59	P5060-22	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:

USEPA CLP COC (LAB COPY)
DateShipped: 12/2/2024
CarrierName: FedEx
AirbillNo: 7704 1901 1892

68HERH20D0011

SDG # MBHKR8

CHAIN OF CUSTODY RECORD

Case #: 51879
Cooler #: 1

No: 2-120224-104551-0034
Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
P175-SB-08-Z00-02	MBHKR0	Soil/		ICP-AES(35)	4786 (Wet samples < 6 C) (1)	P175-SB-08	11/21/2024 09:05	
P175-SB-08-Z02-06	MBHKR1	Soil/		ICP-AES(35)	4787 (Wet samples < 6 C) (1)	P175-SB-08	11/21/2024 09:05	
P175-SB-08-Z06-12	MBHKR2	Soil/		ICP-AES(35)	4788 (Wet samples < 6 C) (1)	P175-SB-08	11/21/2024 09:05	
P175-SB-08-Z12-18	MBHKR3	Soil/		ICP-AES(35)	4789 (Wet samples < 6 C) (1)	P175-SB-08	11/21/2024 09:05	
P175-SB-08-Z18-24	MBHKR4	Soil/		ICP-AES(35)	4740 (Wet samples < 6 C) (1)	P175-SB-08	11/21/2024 09:05	
P175-SB-08-Z24-30	MBHKR5	Soil/		ICP-AES(35)	4741 (Wet samples < 6 C) (1)	P175-SB-08	11/21/2024 09:05	
P175-SB-08-Z30-36	MBHKR6	Soil/		ICP-AES(35)	4742 (Wet samples < 6 C) (1)	P175-SB-08	11/21/2024 09:05	
P176-SB-01-Z00-02	MBHKR7	Soil/		ICP-AES(35)	4865 (Wet samples < 6 C) (1)	P176-SB-01	11/21/2024 09:45	
P176-SB-01-Z02-06	MBHKR8	Soil/		ICP-AES(35)	4866 (Wet samples < 6 C) (1)	P176-SB-01	11/21/2024 09:45	
P176-SB-01-Z06-12	MBHKR9	Soil/		ICP-AES(35)	4867 (Wet samples < 6 C) (1)	P176-SB-01	11/21/2024 09:45	

Sample(s) to be used for Lab QC: P175-SB-08-Z06-12 Tag 4788, P176-SB-01-Z02-06 Tag 4866 - Special Instructions: Samples MBHKR2 and MBHKR8 are MS/MSDs. Samples MBHKR1 and MBHKW2 have limited sample mass.

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
2 Cooler	[signature] WSP	12/02/24 16:36	[signature]	950 12.3.24	TR-Cont 1 2.1°
	N/A				Custody Seal Intact
		12/2/24			Trip Blank present

2

68HERH20D0011

SDG # MBHKR8

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 2-120224-104551-0034

DateShipped: 12/2/2024

CarrierName: FedEx

AirbillNo: 7704 1901 1892

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
P176-SB-11-Z30-36	MBHKW4	Soil/		ICP-AES(35)	4941 (Wet samples < 6 C) (1)	P176-SB-11	11/21/2024 10:25	2
P176-SB-02-Z00-02	MBHKY6	Soil/		ICP-AES(35)	4872 (Wet samples < 6 C) (1)	P176-SB-02	11/21/2024 09:50	3
P176-SB-02-Z02-06	MBHKY7	Soil/		ICP-AES(35)	4873 (Wet samples < 6 C) (1)	P176-SB-02	11/21/2024 09:50	4
P176-SB-02-Z06-12	MBHKY8	Soil/		ICP-AES(35)	4874 (Wet samples < 6 C) (1)	P176-SB-02	11/21/2024 09:50	5
P176-SB-02-Z12-18	MBHKY9	Soil/		ICP-AES(35)	4875 (Wet samples < 6 C) (1)	P176-SB-02	11/21/2024 09:50	6
P176-SB-02-Z18-24	MBHKZ0	Soil/		ICP-AES(35)	4876 (Wet samples < 6 C) (1)	P176-SB-02	11/21/2024 09:50	7
P176-SB-02-Z24-30	MBHKZ1	Soil/		ICP-AES(35)	4877 (Wet samples < 6 C) (1)	P176-SB-02	11/21/2024 09:50	8
P176-SB-02-Z30-36	MBHKZ2	Soil/		ICP-AES(35)	4878 (Wet samples < 6 C) (1)	P176-SB-02	11/21/2024 09:50	9
P176-SB-11-Z00-02-FD	MBHL56	Soil/		ICP-AES(35)	5513 (Wet samples < 6 C) (1)	P176-SB-11	11/21/2024 10:25	10
P176-SB-02-Z30-36-FD	MBHL57	Soil/		ICP-AES(35)	5514 (Wet samples < 6 C) (1)	P176-SB-02	11/21/2024 09:50	11

N/A [signature] 12/02/24

Special Instructions: Samples MBHKR2 and MBHKR8 are MS/MSDs. Samples MBHKR1 and MBHKW2 have limited sample mass.	**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] WSP	12/02/24 16:36	[signature]	950 12-3-24	IR-Gun #1 2.1
		N/A	[signature]		Custody Seal Intact
			12/02/24		Temp Blank present

68HERH20D0011

SDG # MBHKR8

USEPA CLP COC (LAB COPY)

DateShipped: 12/2/2024

CarrierName: FedEx

AirbillNo: 7704 1901 2650

CHAIN OF CUSTODY RECORD

Case #: 51879

Cooler #: 2

No: 2-120224-112207-0035

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
P176-SB-07-Z30-36	MBHKX1	Soil/		ICP-AES(35)	4913 (Wet ice < 6 C) (1)	P176-SB-07	11/21/2024 10:20	12
P176-SB-05-Z00-02	MBHKX2	Soil/		ICP-AES(35)	4893 (Wet ice < 6 C) (1)	P176-SB-05	11/21/2024 10:05	13
P176-SB-05-Z02-06	MBHKX3	Soil/		ICP-AES(35)	4894 (Wet ice < 6 C) (1)	P176-SB-05	11/21/2024 10:05	14
P176-SB-05-Z06-12	MBHKX4	Soil/		ICP-AES(35)	4895 (Wet ice < 6 C) (1)	P176-SB-05	11/21/2024 10:05	15
P176-SB-05-Z12-18	MBHKX5	Soil/		ICP-AES(35)	4896 (Wet ice < 6 C) (1)	P176-SB-05	11/21/2024 10:05	16
P176-SB-05-Z18-24	MBHKX6	Soil/		ICP-AES(35)	4897 (Wet ice < 6 C) (1)	P176-SB-05	11/21/2024 10:05	16
P176-SB-05-Z24-30	MBHKX7	Soil/		ICP-AES(35)	4898 (Wet ice < 6 C) (1)	P176-SB-05	11/21/2024 10:05	17
P176-SB-05-Z30-36	MBHKX8	Soil/		ICP-AES(35)	4899 (Wet ice < 6 C) (1)	P176-SB-05	11/21/2024 10:05	18
P176-SB-08-Z30-36-FD	MBHL58	Soil/		ICP-AES(35)	5515 (Wet ice < 6 C) (1)	P176-SB-08	11/21/2024 10:18	19
P176-SB-07-Z06-12-FD	MBHL59	Soil/		ICP-AES(35)	5516 (Wet ice < 6 C) (1)	P176-SB-07	11/21/2024 10:20	20
				N/A [redacted]	12/02/24			

Sample(s) to be used for Lab QC: P176-SB-05-Z12-18 Tag 4896 - Special Instructions: Samples MBHKT3 and MBHKX5 are MS/MSDs. Samples MBHKW7 and MBHKX3 have limited sample mass.

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	[redacted] WSP	12/02/24 1700		12-3-24 0950	2.1°C IR Gun #1
			N/A [redacted] 12/02/24		custody seals present
					Temp blk present

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 1 of 2
Received By (Print Name) Gonzo Negron		Log-in Date **12/3/2024**
Received By (Signature)		
Case Number 51879	SDG No. MBHKR8	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.	770419011892 1
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.1 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	12/03/2024
12.Time Received	09:50

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MBHKR8	N/A	4866	P5060-01	Intact
2	MBHKR8D	N/A	4866	P5060-02	Intact
3	MBHKR8S	N/A	4866	P5060-03	Intact
4	MBHKW4	N/A	4941	P5060-04	Intact
5	MBHKY6	N/A	4872	P5060-05	Intact
6	MBHKY7	N/A	4873	P5060-06	Intact
7	MBHKY8	N/A	4874	P5060-07	Intact
8	MBHKY9	N/A	4875	P5060-08	Intact
9	MBHKZ0	N/A	4876	P5060-09	Intact
10	MBHKZ1	N/A	4877	P5060-10	Intact
11	MBHKZ2	N/A	4878	P5060-11	Intact
12	MBHL56	N/A	5513	P5060-12	Intact
13	MBHL57	N/A	5514	P5060-13	Intact
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A
Date	12/3/24	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) Gonzo Irizarry		Log-in Date **12/3/2024**
Received By (Signature)		
Case Number 51879	SDG No. MBHKR8	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.	770419012650 2
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.1 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	12/03/2024
12.Time Received	09:50

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MBHKX1	N/A	4913	P5060-14	Intact
2	MBHKX2	N/A	4893	P5060-15	Intact
3	MBHKX3	N/A	4894	P5060-16	Intact
4	MBHKX4	N/A	4895	P5060-17	Intact
5	MBHKX6	N/A	4897	P5060-18	Intact
6	MBHKX7	N/A	4898	P5060-19	Intact
7	MBHKX8	N/A	4899	P5060-20	Intact
8	MBHL58	N/A	5515	P5060-21	Intact
9	MBHL59	N/A	5516	P5060-22	Intact
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A
Date	12/3/24	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.	**MBHKR8**
MA NO.		SOW NO.	**SFAM01.1**

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

	PAGE NOs: FROM	PAGE NOs: TO	CHECK LAB	CHECK REGION
1. SDG Cover Page	1	1	✓	
2. Traffic Report/Chain of Custody Record(s)	2	4	✓	
3. Sample Log-In Sheet (DC-1)	5	6	✓	
4. CSF Inventory Sheet (DC-2)	7	9	✓	
5. SDG Narrative	10	12	✓	
6. Communication Logs	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	635	✓	
Other Data				
10. Standard and Reagent Preparation Logs	636	774	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	775	776	✓	
12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	777	803	✓	
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)	804	805	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	806	807	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	808	809	✓	
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 # MBHKR8
CASE # 51879
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # P5060

A. Number of Samples and Date of Receipt

20 Soil samples were delivered to the laboratory intact on 12/03/2024.

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: 2.1^{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.

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 MBHKR8 For Antimony:

If C = 0.0237614 ppm
Vf = 100 ml
W = 1.26 g
S = 0.787(78.7/100)
DF = 1

$$\text{Concentration (mg/kg)} = 0.0237614 \times \frac{100}{1.26 \times 0.787} \times 1$$

$$= 2.396220 \text{ mg/kg}$$

= 2.4 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 Antimony, Selenium, Silver, Thallium and Zinc. Duplicate sample did meet requirements. Serial Dilution did meet requirements except for Calcium, Chromium, Cobalt, Copper, Manganese and Zinc.

Chemical or physical interference effect was suspected and the data for all affected analytes in the sample received and associated with this serial dilution were flagged.



284 Sheffield Street
Mountainside, NJ 07092

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: 12/5/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 13:55
In Date: 12/04/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:11
Out Date: 12/05/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133727

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
P5060-01	MBHKR8	1	1.15	8.48	9.63	7.82	78.7	
P5060-02	MBHKR8D	2	1.15	8.48	9.63	7.82	78.7	
P5060-03	MBHKR8S	3	1.15	8.48	9.63	7.82	78.7	
P5060-04	MBHKW4	4	1.14	8.39	9.53	8.84	91.8	
P5060-05	MBHKY6	5	1.12	8.60	9.72	7.82	77.9	
P5060-06	MBHKY7	6	1.14	8.83	9.97	8.89	87.8	
P5060-07	MBHKY8	7	1.12	8.84	9.96	9.19	91.3	
P5060-08	MBHKY9	8	1.14	8.53	9.67	8.78	89.6	
P5060-09	MBHKZ0	9	1.15	8.54	9.69	8.76	89.1	
P5060-10	MBHKZ1	10	1.13	8.57	9.7	8.79	89.4	
P5060-11	MBHKZ2	11	1.12	8.85	9.97	9.4	93.6	
P5060-12	MBHL56	12	1.13	8.84	9.97	7.14	68.0	
P5060-13	MBHL57	13	1.12	8.69	9.81	9.15	92.4	
P5060-14	MBHKX1	14	1.12	8.52	9.64	8.83	90.5	
P5060-15	MBHKX2	15	1.13	8.80	9.93	7.46	71.9	
P5060-16	MBHKX3	16	1.15	8.64	9.79	8.2	81.6	
P5060-17	MBHKX4	17	1.14	8.82	9.96	8.63	84.9	
P5060-18	MBHKX6	18	1.12	8.67	9.79	9.34	94.8	
P5060-19	MBHKX7	19	1.13	8.41	9.54	8.93	92.7	
P5060-20	MBHKX8	20	1.14	8.41	9.55	8.81	91.2	
P5060-21	MBHL58	21	1.15	8.78	9.93	9.11	90.7	
P5060-22	MBHL59	22	1.16	8.63	9.79	8.53	85.4	

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

WORKLIST(Hardcopy Internal Chain)

VB 133727

WorkList Name : %1-p5060 **WorkList ID :** 185963 **Department :** Wet-Chemistry **Date :** 12-04-2024 10:25:24

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5060-01	MBHKR8	Solid	Percent Solids	Cool 4 deg C	USEP01	C53	11/21/2024	Chemtech -SO
P5060-02	MBHKR8D	Solid	Percent Solids	Cool 4 deg C	USEP01	C53	11/21/2024	Chemtech -SO
P5060-03	MBHKR8S	Solid	Percent Solids	Cool 4 deg C	USEP01	C53	11/21/2024	Chemtech -SO
P5060-04	MBHKW4	Solid	Percent Solids	Cool 4 deg C	USEP01	C53	11/21/2024	Chemtech -SO
P5060-05	MBHKY6	Solid	Percent Solids	Cool 4 deg C	USEP01	C53	11/21/2024	Chemtech -SO
P5060-06	MBHKY7	Solid	Percent Solids	Cool 4 deg C	USEP01	C53	11/21/2024	Chemtech -SO
P5060-07	MBHKY8	Solid	Percent Solids	Cool 4 deg C	USEP01	C53	11/21/2024	Chemtech -SO
P5060-08	MBHKY9	Solid	Percent Solids	Cool 4 deg C	USEP01	C53	11/21/2024	Chemtech -SO
P5060-09	MBHKZ0	Solid	Percent Solids	Cool 4 deg C	USEP01	C53	11/21/2024	Chemtech -SO
P5060-10	MBHKZ1	Solid	Percent Solids	Cool 4 deg C	USEP01	C53	11/21/2024	Chemtech -SO
P5060-11	MBHKZ2	Solid	Percent Solids	Cool 4 deg C	USEP01	C53	11/21/2024	Chemtech -SO
P5060-12	MBHL56	Solid	Percent Solids	Cool 4 deg C	USEP01	C53	11/21/2024	Chemtech -SO
P5060-13	MBHL57	Solid	Percent Solids	Cool 4 deg C	USEP01	C53	11/21/2024	Chemtech -SO
P5060-14	MBHKX1	Solid	Percent Solids	Cool 4 deg C	USEP01	C53	11/21/2024	Chemtech -SO
P5060-15	MBHKX2	Solid	Percent Solids	Cool 4 deg C	USEP01	C53	11/21/2024	Chemtech -SO
P5060-16	MBHKX3	Solid	Percent Solids	Cool 4 deg C	USEP01	C53	11/21/2024	Chemtech -SO
P5060-17	MBHKX4	Solid	Percent Solids	Cool 4 deg C	USEP01	C53	11/21/2024	Chemtech -SO
P5060-18	MBHKX6	Solid	Percent Solids	Cool 4 deg C	USEP01	C53	11/21/2024	Chemtech -SO
P5060-19	MBHKX7	Solid	Percent Solids	Cool 4 deg C	USEP01	C53	11/21/2024	Chemtech -SO
P5060-20	MBHKX8	Solid	Percent Solids	Cool 4 deg C	USEP01	C53	11/21/2024	Chemtech -SO
P5060-21	MBHL58	Solid	Percent Solids	Cool 4 deg C	USEP01	C53	11/21/2024	Chemtech -SO

Date/Time 12/04/24 13:10

Raw Sample Received by: JD WC1

Raw Sample Relinquished by: IT (SM)

Date/Time 12/04/24 16:40

Raw Sample Received by: IT (SM)

Raw Sample Relinquished by: JD WC

WORKLIST(Hardcopy Internal Chain)

NR 133727

WorkList Name : %1-p5060 **WorkList ID :** 185963 **Department :** Wet-Chemistry **Date :** 12-04-2024 10:25:24

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5060-22	MBHL59	Solid	Percent Solids	Cool 4 deg C	USEP01	C53	11/21/2024	Chemtech -SO

15

Date/Time 12/04/24 13:10

Raw Sample Received by: ZD (WC)

Raw Sample Relinquished by: IT (SM)

Date/Time 12/04/24 14:00

Raw Sample Received by: IT (SM)

Raw Sample Relinquished by: ZD

EPA SAMPLE NO.

MBHKR8

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.: MBHKR8

Matrix: SOIL Lab Sample ID: P5060-01

% Solids: 78.7 Date Received: 12/03/2024

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	7100		12/17/2024	2021
7440-36-0	Antimony	2.4	J*	12/17/2024	2021
7440-38-2	Arsenic	14		12/17/2024	2021
7440-39-3	Barium	170		12/17/2024	2021
7440-41-7	Beryllium	0.90		12/17/2024	2021
7440-43-9	Cadmium	0.89		12/17/2024	2021
7440-70-2	Calcium	15000	*	12/17/2024	2021
7440-47-3	Chromium	14	*	12/17/2024	2021
7440-48-4	Cobalt	12	*	12/17/2024	2021
7440-50-8	Copper	37	*	12/17/2024	2021
7439-89-6	Iron	16000		12/17/2024	2021
7439-92-1	Lead	200		12/17/2024	2021
7439-95-4	Magnesium	3500		12/17/2024	2021
7439-96-5	Manganese	800	*	12/17/2024	2021
7440-02-0	Nickel	24		12/17/2024	2021
7440-09-7	Potassium	630		12/17/2024	2021
7782-49-2	Selenium	5.2	*	12/17/2024	2021
7440-22-4	Silver	0.46	J*	12/17/2024	2021
7440-23-5	Sodium	130	J	12/17/2024	2021
7440-28-0	Thallium	2.5	U*	12/17/2024	2021
7440-62-2	Vanadium	21		12/17/2024	2021
7440-66-6	Zinc	200	*	12/17/2024	2021

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

Comments:

EPA SAMPLE NO.

MBHKW4

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.: MBHKR8

Matrix: SOIL Lab Sample ID: P5060-04

% Solids: 91.8 Date Received: 12/03/2024

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	3200		12/17/2024	2037
7440-36-0	Antimony	0.99	J*	12/17/2024	2037
7440-38-2	Arsenic	4.5		12/17/2024	2037
7440-39-3	Barium	42		12/17/2024	2037
7440-41-7	Beryllium	0.42		12/17/2024	2037
7440-43-9	Cadmium	0.28	J	12/17/2024	2037
7440-70-2	Calcium	99000	D*	01/04/2025	0008
7440-47-3	Chromium	5.4	*	12/17/2024	2037
7440-48-4	Cobalt	10	*	12/17/2024	2037
7440-50-8	Copper	18	*	12/17/2024	2037
7439-89-6	Iron	12000		12/17/2024	2037
7439-92-1	Lead	14		12/17/2024	2037
7439-95-4	Magnesium	22000		12/17/2024	2037
7439-96-5	Manganese	1100	*	12/17/2024	2037
7440-02-0	Nickel	14		12/17/2024	2037
7440-09-7	Potassium	730		12/17/2024	2037
7782-49-2	Selenium	2.0	J*	12/17/2024	2037
7440-22-4	Silver	0.14	J*	12/17/2024	2037
7440-23-5	Sodium	87	J	12/17/2024	2037
7440-28-0	Thallium	0.88	J*	12/17/2024	2037
7440-62-2	Vanadium	9.1		12/17/2024	2037
7440-66-6	Zinc	33	*	12/17/2024	2037

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

Comments:

EPA SAMPLE NO.

MBHKX1

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.: MBHKR8

Matrix: SOIL Lab Sample ID: P5060-14

% Solids: 90.5 Date Received: 12/03/2024

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	3300		12/17/2024	2123
7440-36-0	Antimony	1.6	J*	12/17/2024	2123
7440-38-2	Arsenic	8.0		12/17/2024	2123
7440-39-3	Barium	30		12/17/2024	2123
7440-41-7	Beryllium	0.52		12/17/2024	2123
7440-43-9	Cadmium	0.33	J	12/17/2024	2123
7440-70-2	Calcium	110000	D*	01/04/2025	0012
7440-47-3	Chromium	4.9	*	12/17/2024	2123
7440-48-4	Cobalt	12	*	12/17/2024	2123
7440-50-8	Copper	24	*	12/17/2024	2123
7439-89-6	Iron	15000		12/17/2024	2123
7439-92-1	Lead	17		12/17/2024	2123
7439-95-4	Magnesium	13000		12/17/2024	2123
7439-96-5	Manganese	720	*	12/17/2024	2123
7440-02-0	Nickel	12		12/17/2024	2123
7440-09-7	Potassium	620		12/17/2024	2123
7782-49-2	Selenium	3.1	*	12/17/2024	2123
7440-22-4	Silver	0.26	J*	12/17/2024	2123
7440-23-5	Sodium	120	J	12/17/2024	2123
7440-28-0	Thallium	2.0	U*	12/17/2024	2123
7440-62-2	Vanadium	13		12/17/2024	2123
7440-66-6	Zinc	40	*	12/17/2024	2123

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

Comments:

EPA SAMPLE NO.

MBHKX2

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.: MBHKR8

Matrix: SOIL Lab Sample ID: P5060-15

% Solids: 71.9 Date Received: 12/03/2024

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	6100		12/17/2024	2127
7440-36-0	Antimony	2.2	J*	12/17/2024	2127
7440-38-2	Arsenic	7.4		12/17/2024	2127
7440-39-3	Barium	130		12/17/2024	2127
7440-41-7	Beryllium	0.80		12/17/2024	2127
7440-43-9	Cadmium	0.83		12/17/2024	2127
7440-70-2	Calcium	17000	*	12/17/2024	2127
7440-47-3	Chromium	12	*	12/17/2024	2127
7440-48-4	Cobalt	11	*	12/17/2024	2127
7440-50-8	Copper	24	*	12/17/2024	2127
7439-89-6	Iron	15000		12/17/2024	2127
7439-92-1	Lead	120		12/17/2024	2127
7439-95-4	Magnesium	5700		12/17/2024	2127
7439-96-5	Manganese	440	*	12/17/2024	2127
7440-02-0	Nickel	18		12/17/2024	2127
7440-09-7	Potassium	1100		12/17/2024	2127
7782-49-2	Selenium	5.1	*	12/17/2024	2127
7440-22-4	Silver	0.36	J*	12/17/2024	2127
7440-23-5	Sodium	130	J	12/17/2024	2127
7440-28-0	Thallium	2.6	U*	12/17/2024	2127
7440-62-2	Vanadium	17		12/17/2024	2127
7440-66-6	Zinc	180	*	12/17/2024	2127

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

Comments:

EPA SAMPLE NO.

MBHKX3

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.: MBHKR8

Matrix: SOIL Lab Sample ID: P5060-16

% Solids: 81.6 Date Received: 12/03/2024

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	6300		12/17/2024	2130
7440-36-0	Antimony	2.7	J*	12/17/2024	2130
7440-38-2	Arsenic	9.1		12/17/2024	2130
7440-39-3	Barium	150		12/17/2024	2130
7440-41-7	Beryllium	0.84		12/17/2024	2130
7440-43-9	Cadmium	0.92		12/17/2024	2130
7440-70-2	Calcium	16000	*	12/17/2024	2130
7440-47-3	Chromium	13	*	12/17/2024	2130
7440-48-4	Cobalt	11	*	12/17/2024	2130
7440-50-8	Copper	25	*	12/17/2024	2130
7439-89-6	Iron	16000		12/17/2024	2130
7439-92-1	Lead	520		12/17/2024	2130
7439-95-4	Magnesium	5000		12/17/2024	2130
7439-96-5	Manganese	490	*	12/17/2024	2130
7440-02-0	Nickel	19		12/17/2024	2130
7440-09-7	Potassium	850		12/17/2024	2130
7782-49-2	Selenium	5.1	*	12/17/2024	2130
7440-22-4	Silver	0.61	J*	12/17/2024	2130
7440-23-5	Sodium	100	J	12/17/2024	2130
7440-28-0	Thallium	2.4	U*	12/17/2024	2130
7440-62-2	Vanadium	20		12/17/2024	2130
7440-66-6	Zinc	180	*	12/17/2024	2130

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

Comments:

EPA SAMPLE NO.

MBHKX4

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.: MBHKR8

Matrix: SOIL Lab Sample ID: P5060-17

% Solids: 84.9 Date Received: 12/03/2024

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		12/17/2024	2134
7440-36-0	Antimony	2.1	J*	12/17/2024	2134
7440-38-2	Arsenic	9.4		12/17/2024	2134
7440-39-3	Barium	140		12/17/2024	2134
7440-41-7	Beryllium	0.84		12/17/2024	2134
7440-43-9	Cadmium	0.75		12/17/2024	2134
7440-70-2	Calcium	14000	*	12/17/2024	2134
7440-47-3	Chromium	13	*	12/17/2024	2134
7440-48-4	Cobalt	10	*	12/17/2024	2134
7440-50-8	Copper	22	*	12/17/2024	2134
7439-89-6	Iron	16000		12/17/2024	2134
7439-92-1	Lead	120		12/17/2024	2134
7439-95-4	Magnesium	4600		12/17/2024	2134
7439-96-5	Manganese	440	*	12/17/2024	2134
7440-02-0	Nickel	17		12/17/2024	2134
7440-09-7	Potassium	750		12/17/2024	2134
7782-49-2	Selenium	5.3	*	12/17/2024	2134
7440-22-4	Silver	0.44	J*	12/17/2024	2134
7440-23-5	Sodium	470	U	12/17/2024	2134
7440-28-0	Thallium	2.4	U*	12/17/2024	2134
7440-62-2	Vanadium	19		12/17/2024	2134
7440-66-6	Zinc	130	*	12/17/2024	2134

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

Comments:

EPA SAMPLE NO.

MBHKX6

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.: MBHKR8

Matrix: SOIL Lab Sample ID: P5060-18

% Solids: 94.8 Date Received: 12/03/2024

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	3200		12/17/2024	2138
7440-36-0	Antimony	0.46	J*	12/17/2024	2138
7440-38-2	Arsenic	3.0		12/17/2024	2138
7440-39-3	Barium	31		12/17/2024	2138
7440-41-7	Beryllium	0.36	J	12/17/2024	2138
7440-43-9	Cadmium	0.19	J	12/17/2024	2138
7440-70-2	Calcium	81000	D*	01/04/2025	0016
7440-47-3	Chromium	5.3	*	12/17/2024	2138
7440-48-4	Cobalt	8.2	*	12/17/2024	2138
7440-50-8	Copper	5.9	*	12/17/2024	2138
7439-89-6	Iron	8700		12/17/2024	2138
7439-92-1	Lead	16		12/17/2024	2138
7439-95-4	Magnesium	24000		12/17/2024	2138
7439-96-5	Manganese	340	*	12/17/2024	2138
7440-02-0	Nickel	7.7		12/17/2024	2138
7440-09-7	Potassium	300	J	12/17/2024	2138
7782-49-2	Selenium	2.7	U*	12/17/2024	2138
7440-22-4	Silver	0.096	J*	12/17/2024	2138
7440-23-5	Sodium	390	U	12/17/2024	2138
7440-28-0	Thallium	0.95	J*	12/17/2024	2138
7440-62-2	Vanadium	10		12/17/2024	2138
7440-66-6	Zinc	38	*	12/17/2024	2138

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

Comments:

EPA SAMPLE NO.

MBHKX7

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.: MBHKR8

Matrix: SOIL Lab Sample ID: P5060-19

% Solids: 92.7 Date Received: 12/03/2024

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	3300		12/17/2024	2142
7440-36-0	Antimony	0.52	J*	12/17/2024	2142
7440-38-2	Arsenic	2.8		12/17/2024	2142
7440-39-3	Barium	33		12/17/2024	2142
7440-41-7	Beryllium	0.40	J	12/17/2024	2142
7440-43-9	Cadmium	0.23	J	12/17/2024	2142
7440-70-2	Calcium	90000	D*	01/04/2025	0020
7440-47-3	Chromium	6.0	*	12/17/2024	2142
7440-48-4	Cobalt	9.3	*	12/17/2024	2142
7440-50-8	Copper	6.9	*	12/17/2024	2142
7439-89-6	Iron	10000		12/17/2024	2142
7439-92-1	Lead	11		12/17/2024	2142
7439-95-4	Magnesium	14000		12/17/2024	2142
7439-96-5	Manganese	790	*	12/17/2024	2142
7440-02-0	Nickel	10		12/17/2024	2142
7440-09-7	Potassium	520		12/17/2024	2142
7782-49-2	Selenium	3.1	U*	12/17/2024	2142
7440-22-4	Silver	0.23	J*	12/17/2024	2142
7440-23-5	Sodium	450	U	12/17/2024	2142
7440-28-0	Thallium	1.5	J*	12/17/2024	2142
7440-62-2	Vanadium	8.6		12/17/2024	2142
7440-66-6	Zinc	38	*	12/17/2024	2142

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

Comments:

EPA SAMPLE NO.

MBHKX8

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.: MBHKR8

Matrix: SOIL Lab Sample ID: P5060-20

% Solids: 91.2 Date Received: 12/03/2024

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	3200		12/17/2024	2146
7440-36-0	Antimony	1.0	J*	12/17/2024	2146
7440-38-2	Arsenic	3.7		12/17/2024	2146
7440-39-3	Barium	28		12/17/2024	2146
7440-41-7	Beryllium	0.49		12/17/2024	2146
7440-43-9	Cadmium	0.24	J	12/17/2024	2146
7440-70-2	Calcium	57000	*	12/17/2024	2146
7440-47-3	Chromium	6.0	*	12/17/2024	2146
7440-48-4	Cobalt	9.3	*	12/17/2024	2146
7440-50-8	Copper	8.5	*	12/17/2024	2146
7439-89-6	Iron	12000		12/17/2024	2146
7439-92-1	Lead	7.6		12/17/2024	2146
7439-95-4	Magnesium	5600		12/17/2024	2146
7439-96-5	Manganese	570	*	12/17/2024	2146
7440-02-0	Nickel	12		12/17/2024	2146
7440-09-7	Potassium	680		12/17/2024	2146
7782-49-2	Selenium	2.3	J*	12/17/2024	2146
7440-22-4	Silver	0.18	J*	12/17/2024	2146
7440-23-5	Sodium	390	U	12/17/2024	2146
7440-28-0	Thallium	2.0	U*	12/17/2024	2146
7440-62-2	Vanadium	10		12/17/2024	2146
7440-66-6	Zinc	33	*	12/17/2024	2146

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

Comments:

EPA SAMPLE NO.

MBHKY6

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.: MBHKR8

Matrix: SOIL Lab Sample ID: P5060-05

% Solids: 77.9 Date Received: 12/03/2024

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	6500		12/17/2024	2041
7440-36-0	Antimony	2.3	J*	12/17/2024	2041
7440-38-2	Arsenic	8.1		12/17/2024	2041
7440-39-3	Barium	81		12/17/2024	2041
7440-41-7	Beryllium	0.74		12/17/2024	2041
7440-43-9	Cadmium	0.41	J	12/17/2024	2041
7440-70-2	Calcium	18000	*	12/17/2024	2041
7440-47-3	Chromium	11	*	12/17/2024	2041
7440-48-4	Cobalt	11	*	12/17/2024	2041
7440-50-8	Copper	22	*	12/17/2024	2041
7439-89-6	Iron	15000		12/17/2024	2041
7439-92-1	Lead	50		12/17/2024	2041
7439-95-4	Magnesium	8500		12/17/2024	2041
7439-96-5	Manganese	650	*	12/17/2024	2041
7440-02-0	Nickel	18		12/17/2024	2041
7440-09-7	Potassium	890		12/17/2024	2041
7782-49-2	Selenium	4.8	*	12/17/2024	2041
7440-22-4	Silver	0.27	J*	12/17/2024	2041
7440-23-5	Sodium	470	U	12/17/2024	2041
7440-28-0	Thallium	2.3	U*	12/17/2024	2041
7440-62-2	Vanadium	19		12/17/2024	2041
7440-66-6	Zinc	69	*	12/17/2024	2041

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

Comments:

EPA SAMPLE NO.

MBHKY7

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.: MBHKR8

Matrix: SOIL Lab Sample ID: P5060-06

% Solids: 87.8 Date Received: 12/03/2024

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	5300		12/17/2024	2044
7440-36-0	Antimony	2.3	J*	12/17/2024	2044
7440-38-2	Arsenic	7.1		12/17/2024	2044
7440-39-3	Barium	65		12/17/2024	2044
7440-41-7	Beryllium	0.62		12/17/2024	2044
7440-43-9	Cadmium	0.32	J	12/17/2024	2044
7440-70-2	Calcium	9200	*	12/17/2024	2044
7440-47-3	Chromium	8.4	*	12/17/2024	2044
7440-48-4	Cobalt	9.2	*	12/17/2024	2044
7440-50-8	Copper	18	*	12/17/2024	2044
7439-89-6	Iron	15000		12/17/2024	2044
7439-92-1	Lead	40		12/17/2024	2044
7439-95-4	Magnesium	4400		12/17/2024	2044
7439-96-5	Manganese	850	*	12/17/2024	2044
7440-02-0	Nickel	16		12/17/2024	2044
7440-09-7	Potassium	560		12/17/2024	2044
7782-49-2	Selenium	5.8	*	12/17/2024	2044
7440-22-4	Silver	0.35	J*	12/17/2024	2044
7440-23-5	Sodium	86	J	12/17/2024	2044
7440-28-0	Thallium	2.2	U*	12/17/2024	2044
7440-62-2	Vanadium	14		12/17/2024	2044
7440-66-6	Zinc	50	*	12/17/2024	2044

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

Comments:

EPA SAMPLE NO.

MBHKY8

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.: MBHKR8

Matrix: SOIL Lab Sample ID: P5060-07

% Solids: 91.3 Date Received: 12/03/2024

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		12/17/2024	2056
7440-36-0	Antimony	2.0	J*	12/17/2024	2056
7440-38-2	Arsenic	7.4		12/17/2024	2056
7440-39-3	Barium	74		12/17/2024	2056
7440-41-7	Beryllium	0.76		12/17/2024	2056
7440-43-9	Cadmium	0.30	J	12/17/2024	2056
7440-70-2	Calcium	14000	*	12/17/2024	2056
7440-47-3	Chromium	9.2	*	12/17/2024	2056
7440-48-4	Cobalt	10	*	12/17/2024	2056
7440-50-8	Copper	21	*	12/17/2024	2056
7439-89-6	Iron	14000		12/17/2024	2056
7439-92-1	Lead	31		12/17/2024	2056
7439-95-4	Magnesium	4700		12/17/2024	2056
7439-96-5	Manganese	640	*	12/17/2024	2056
7440-02-0	Nickel	17		12/17/2024	2056
7440-09-7	Potassium	560		12/17/2024	2056
7782-49-2	Selenium	4.6	*	12/17/2024	2056
7440-22-4	Silver	0.26	J*	12/17/2024	2056
7440-23-5	Sodium	430	U	12/17/2024	2056
7440-28-0	Thallium	2.1	U*	12/17/2024	2056
7440-62-2	Vanadium	14		12/17/2024	2056
7440-66-6	Zinc	41	*	12/17/2024	2056

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

Comments:

EPA SAMPLE NO.

MBHKY9

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.: MBHKR8

Matrix: SOIL Lab Sample ID: P5060-08

% Solids: 89.6 Date Received: 12/03/2024

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	6600		12/17/2024	2100
7440-36-0	Antimony	2.5	J*	12/17/2024	2100
7440-38-2	Arsenic	11		12/17/2024	2100
7440-39-3	Barium	100		12/17/2024	2100
7440-41-7	Beryllium	0.73		12/17/2024	2100
7440-43-9	Cadmium	0.44		12/17/2024	2100
7440-70-2	Calcium	5700	*	12/17/2024	2100
7440-47-3	Chromium	10	*	12/17/2024	2100
7440-48-4	Cobalt	9.9	*	12/17/2024	2100
7440-50-8	Copper	19	*	12/17/2024	2100
7439-89-6	Iron	15000		12/17/2024	2100
7439-92-1	Lead	66		12/17/2024	2100
7439-95-4	Magnesium	2600		12/17/2024	2100
7439-96-5	Manganese	730	*	12/17/2024	2100
7440-02-0	Nickel	14		12/17/2024	2100
7440-09-7	Potassium	720		12/17/2024	2100
7782-49-2	Selenium	5.8	*	12/17/2024	2100
7440-22-4	Silver	0.36	J*	12/17/2024	2100
7440-23-5	Sodium	420	U	12/17/2024	2100
7440-28-0	Thallium	2.1	U*	12/17/2024	2100
7440-62-2	Vanadium	16		12/17/2024	2100
7440-66-6	Zinc	58	*	12/17/2024	2100

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

Comments:

EPA SAMPLE NO.

MBHKZ0

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.: MBHKR8

Matrix: SOIL Lab Sample ID: P5060-09

% Solids: 89.1 Date Received: 12/03/2024

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	6100		12/17/2024	2104
7440-36-0	Antimony	2.6	J*	12/17/2024	2104
7440-38-2	Arsenic	14		12/17/2024	2104
7440-39-3	Barium	110		12/17/2024	2104
7440-41-7	Beryllium	0.70		12/17/2024	2104
7440-43-9	Cadmium	0.46		12/17/2024	2104
7440-70-2	Calcium	3700	*	12/17/2024	2104
7440-47-3	Chromium	9.1	*	12/17/2024	2104
7440-48-4	Cobalt	9.0	*	12/17/2024	2104
7440-50-8	Copper	15	*	12/17/2024	2104
7439-89-6	Iron	15000		12/17/2024	2104
7439-92-1	Lead	49		12/17/2024	2104
7439-95-4	Magnesium	1800		12/17/2024	2104
7439-96-5	Manganese	860	*	12/17/2024	2104
7440-02-0	Nickel	12		12/17/2024	2104
7440-09-7	Potassium	690		12/17/2024	2104
7782-49-2	Selenium	5.9	*	12/17/2024	2104
7440-22-4	Silver	0.43	J*	12/17/2024	2104
7440-23-5	Sodium	420	U	12/17/2024	2104
7440-28-0	Thallium	2.1	U*	12/17/2024	2104
7440-62-2	Vanadium	15		12/17/2024	2104
7440-66-6	Zinc	48	*	12/17/2024	2104

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

Comments:

EPA SAMPLE NO.

MBHKZ1

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.: MBHKR8

Matrix: SOIL Lab Sample ID: P5060-10

% Solids: 89.4 Date Received: 12/03/2024

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		12/17/2024	2107
7440-36-0	Antimony	3.0	J*	12/17/2024	2107
7440-38-2	Arsenic	11		12/17/2024	2107
7440-39-3	Barium	120		12/17/2024	2107
7440-41-7	Beryllium	0.83		12/17/2024	2107
7440-43-9	Cadmium	0.48		12/17/2024	2107
7440-70-2	Calcium	3300	*	12/17/2024	2107
7440-47-3	Chromium	11	*	12/17/2024	2107
7440-48-4	Cobalt	11	*	12/17/2024	2107
7440-50-8	Copper	14	*	12/17/2024	2107
7439-89-6	Iron	18000		12/17/2024	2107
7439-92-1	Lead	22		12/17/2024	2107
7439-95-4	Magnesium	2300		12/17/2024	2107
7439-96-5	Manganese	940	*	12/17/2024	2107
7440-02-0	Nickel	15		12/17/2024	2107
7440-09-7	Potassium	560		12/17/2024	2107
7782-49-2	Selenium	7.6	*	12/17/2024	2107
7440-22-4	Silver	0.48	J*	12/17/2024	2107
7440-23-5	Sodium	98	J	12/17/2024	2107
7440-28-0	Thallium	2.3	U*	12/17/2024	2107
7440-62-2	Vanadium	18		12/17/2024	2107
7440-66-6	Zinc	40	*	12/17/2024	2107

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

Comments:

EPA SAMPLE NO.

MBHKZ2

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.: MBHKR8

Matrix: SOIL Lab Sample ID: P5060-11

% Solids: 93.6 Date Received: 12/03/2024

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		12/17/2024	2111
7440-36-0	Antimony	2.8	J*	12/17/2024	2111
7440-38-2	Arsenic	9.1		12/17/2024	2111
7440-39-3	Barium	84		12/17/2024	2111
7440-41-7	Beryllium	0.66		12/17/2024	2111
7440-43-9	Cadmium	0.35	J	12/17/2024	2111
7440-70-2	Calcium	4200	*	12/17/2024	2111
7440-47-3	Chromium	9.3	*	12/17/2024	2111
7440-48-4	Cobalt	10	*	12/17/2024	2111
7440-50-8	Copper	12	*	12/17/2024	2111
7439-89-6	Iron	17000		12/17/2024	2111
7439-92-1	Lead	17		12/17/2024	2111
7439-95-4	Magnesium	3000		12/17/2024	2111
7439-96-5	Manganese	900	*	12/17/2024	2111
7440-02-0	Nickel	16		12/17/2024	2111
7440-09-7	Potassium	430		12/17/2024	2111
7782-49-2	Selenium	6.9	*	12/17/2024	2111
7440-22-4	Silver	0.37	J*	12/17/2024	2111
7440-23-5	Sodium	410	U	12/17/2024	2111
7440-28-0	Thallium	2.1	U*	12/17/2024	2111
7440-62-2	Vanadium	17		12/17/2024	2111
7440-66-6	Zinc	43	*	12/17/2024	2111

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

Comments:

EPA SAMPLE NO.

MBHL56

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.: MBHKR8

Matrix: SOIL Lab Sample ID: P5060-12

% Solids: 68 Date Received: 12/03/2024

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	6600		12/17/2024	2115
7440-36-0	Antimony	2.5	J*	12/17/2024	2115
7440-38-2	Arsenic	12		12/17/2024	2115
7440-39-3	Barium	160		12/17/2024	2115
7440-41-7	Beryllium	0.85		12/17/2024	2115
7440-43-9	Cadmium	0.94		12/17/2024	2115
7440-70-2	Calcium	20000	*	12/17/2024	2115
7440-47-3	Chromium	18	*	12/17/2024	2115
7440-48-4	Cobalt	13	*	12/17/2024	2115
7440-50-8	Copper	38	*	12/17/2024	2115
7439-89-6	Iron	17000		12/17/2024	2115
7439-92-1	Lead	160		12/17/2024	2115
7439-95-4	Magnesium	3900		12/17/2024	2115
7439-96-5	Manganese	940	*	12/17/2024	2115
7440-02-0	Nickel	20		12/17/2024	2115
7440-09-7	Potassium	1300		12/17/2024	2115
7782-49-2	Selenium	5.6	*	12/17/2024	2115
7440-22-4	Silver	0.60	J*	12/17/2024	2115
7440-23-5	Sodium	510	U	12/17/2024	2115
7440-28-0	Thallium	2.6	U*	12/17/2024	2115
7440-62-2	Vanadium	19		12/17/2024	2115
7440-66-6	Zinc	180	*	12/17/2024	2115

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

Comments:

EPA SAMPLE NO.

MBHL57

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.: MBHKR8

Matrix: SOIL Lab Sample ID: P5060-13

% Solids: 92.4 Date Received: 12/03/2024

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	5700		12/17/2024	2119
7440-36-0	Antimony	2.7	J*	12/17/2024	2119
7440-38-2	Arsenic	7.6		12/17/2024	2119
7440-39-3	Barium	73		12/17/2024	2119
7440-41-7	Beryllium	0.66		12/17/2024	2119
7440-43-9	Cadmium	0.28	J	12/17/2024	2119
7440-70-2	Calcium	3900	*	12/17/2024	2119
7440-47-3	Chromium	9.2	*	12/17/2024	2119
7440-48-4	Cobalt	9.3	*	12/17/2024	2119
7440-50-8	Copper	11	*	12/17/2024	2119
7439-89-6	Iron	16000		12/17/2024	2119
7439-92-1	Lead	15		12/17/2024	2119
7439-95-4	Magnesium	2700		12/17/2024	2119
7439-96-5	Manganese	600	*	12/17/2024	2119
7440-02-0	Nickel	15		12/17/2024	2119
7440-09-7	Potassium	380	J	12/17/2024	2119
7782-49-2	Selenium	6.6	*	12/17/2024	2119
7440-22-4	Silver	0.33	J*	12/17/2024	2119
7440-23-5	Sodium	100	J	12/17/2024	2119
7440-28-0	Thallium	2.0	U*	12/17/2024	2119
7440-62-2	Vanadium	17		12/17/2024	2119
7440-66-6	Zinc	36	*	12/17/2024	2119

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

Comments:

EPA SAMPLE NO.

MBHL58

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.: MBHKR8

Matrix: SOIL Lab Sample ID: P5060-21

% Solids: 90.7 Date Received: 12/03/2024

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	3500		12/17/2024	2150
7440-36-0	Antimony	1.3	J*	12/17/2024	2150
7440-38-2	Arsenic	5.6		12/17/2024	2150
7440-39-3	Barium	36		12/17/2024	2150
7440-41-7	Beryllium	0.51		12/17/2024	2150
7440-43-9	Cadmium	0.31	J	12/17/2024	2150
7440-70-2	Calcium	100000	D*	01/04/2025	0024
7440-47-3	Chromium	6.0	*	12/17/2024	2150
7440-48-4	Cobalt	10	*	12/17/2024	2150
7440-50-8	Copper	20	*	12/17/2024	2150
7439-89-6	Iron	15000		12/17/2024	2150
7439-92-1	Lead	12		12/17/2024	2150
7439-95-4	Magnesium	17000		12/17/2024	2150
7439-96-5	Manganese	710	*	12/17/2024	2150
7440-02-0	Nickel	11		12/17/2024	2150
7440-09-7	Potassium	150	J	12/17/2024	2150
7782-49-2	Selenium	2.3	J*	12/17/2024	2150
7440-22-4	Silver	0.28	J*	12/17/2024	2150
7440-23-5	Sodium	480	U	12/17/2024	2150
7440-28-0	Thallium	2.4	U*	12/17/2024	2150
7440-62-2	Vanadium	14		12/17/2024	2150
7440-66-6	Zinc	50	*	12/17/2024	2150

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

Comments:

EPA SAMPLE NO.

MBHL59

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.: MBHKR8

Matrix: SOIL Lab Sample ID: P5060-22

% Solids: 85.4 Date Received: 12/03/2024

Analytical Method: ICP_AES

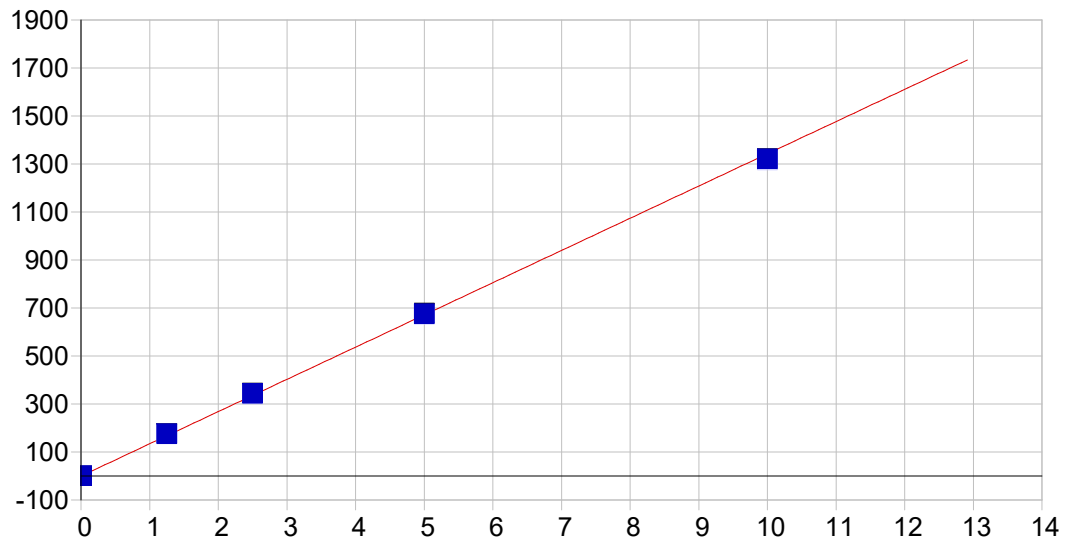
Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	5000		12/17/2024	2154
7440-36-0	Antimony	2.1	J*	12/17/2024	2154
7440-38-2	Arsenic	9.0		12/17/2024	2154
7440-39-3	Barium	140		12/17/2024	2154
7440-41-7	Beryllium	0.64		12/17/2024	2154
7440-43-9	Cadmium	0.70		12/17/2024	2154
7440-70-2	Calcium	33000	*	12/17/2024	2154
7440-47-3	Chromium	9.9	*	12/17/2024	2154
7440-48-4	Cobalt	11	*	12/17/2024	2154
7440-50-8	Copper	22	*	12/17/2024	2154
7439-89-6	Iron	15000		12/17/2024	2154
7439-92-1	Lead	130		12/17/2024	2154
7439-95-4	Magnesium	6000		12/17/2024	2154
7439-96-5	Manganese	800	*	12/17/2024	2154
7440-02-0	Nickel	15		12/17/2024	2154
7440-09-7	Potassium	520		12/17/2024	2154
7782-49-2	Selenium	4.2	*	12/17/2024	2154
7440-22-4	Silver	0.36	J*	12/17/2024	2154
7440-23-5	Sodium	400	U	12/17/2024	2154
7440-28-0	Thallium	2.0	U*	12/17/2024	2154
7440-62-2	Vanadium	15		12/17/2024	2154
7440-66-6	Zinc	160	*	12/17/2024	2154

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

Comments:

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5



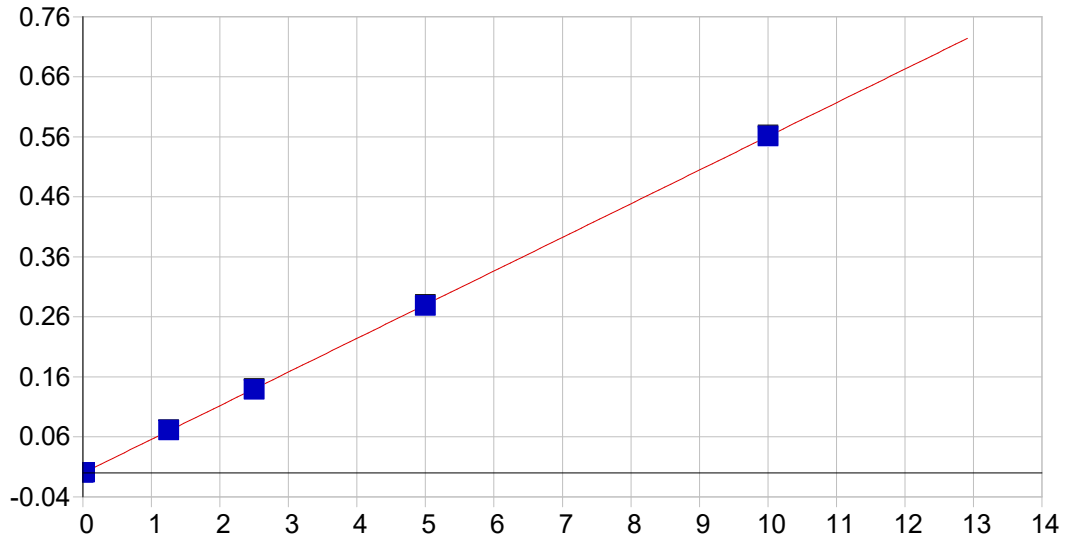
As 189.042 {478}

Date of Fit:	12/17/2024 16:45:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.271844	Re-Slope:	1.000000
A1 (Gain):	134.268224	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999804	Status:	OK.
Std Error of Est:	0.044416		
Predicted MDL:	0.005072		
Predicted MQL:	0.016907		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.27204	.320	1
S1	.01000	.01083	.001	8.25	1.1797	.555	1
S2	1.2500	1.3114	.061	4.92	175.11	.745	1
S3	2.5000	2.5595	.060	2.38	341.98	1.66	1
S4	5.0000	5.0370	.037	.741	673.22	2.49	1
S5	10.000	9.8412	-.159	-1.59	1315.4	.808	1

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5



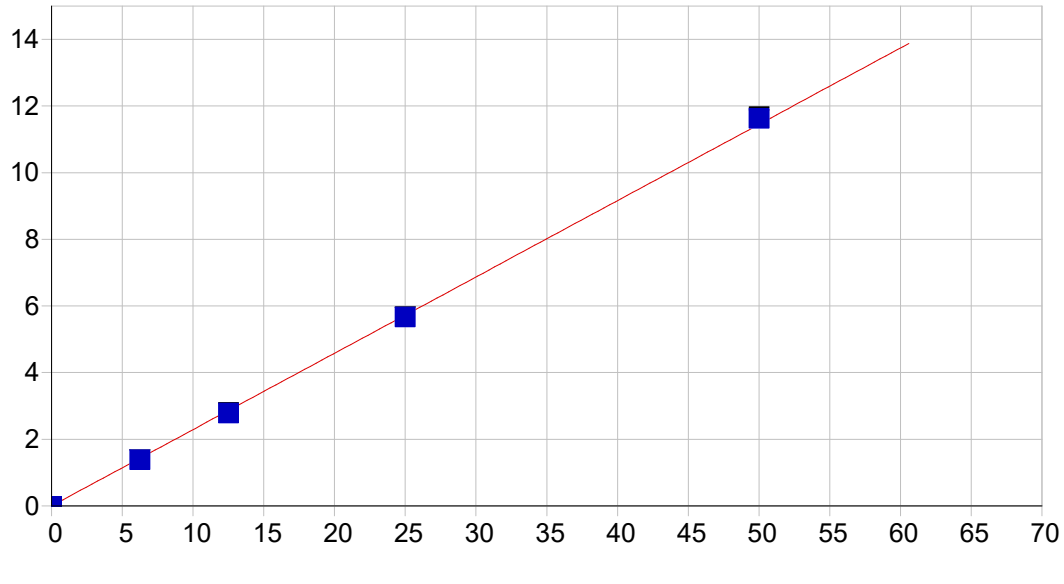
Tl 190.856 {477}

Date of Fit:	12/17/2024 16:45:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000222	Re-Slope:	1.000000
A1 (Gain):	0.056100	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999981	Status:	OK.
Std Error of Est:	0.000009		
Predicted MDL:	0.004133		
Predicted MQL:	0.013776		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00022	.000	1
S1	.02500	.02448	-.001	-2.08	.00110	.000	1
S2	1.2500	1.2748	.025	1.98	.07111	.000	1
S3	2.5000	2.4843	-.016	-.626	.13879	.001	1
S4	5.0000	4.9799	-.020	-.403	.27843	.001	1
S5	10.000	10.012	.012	.115	.55998	.002	1

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5



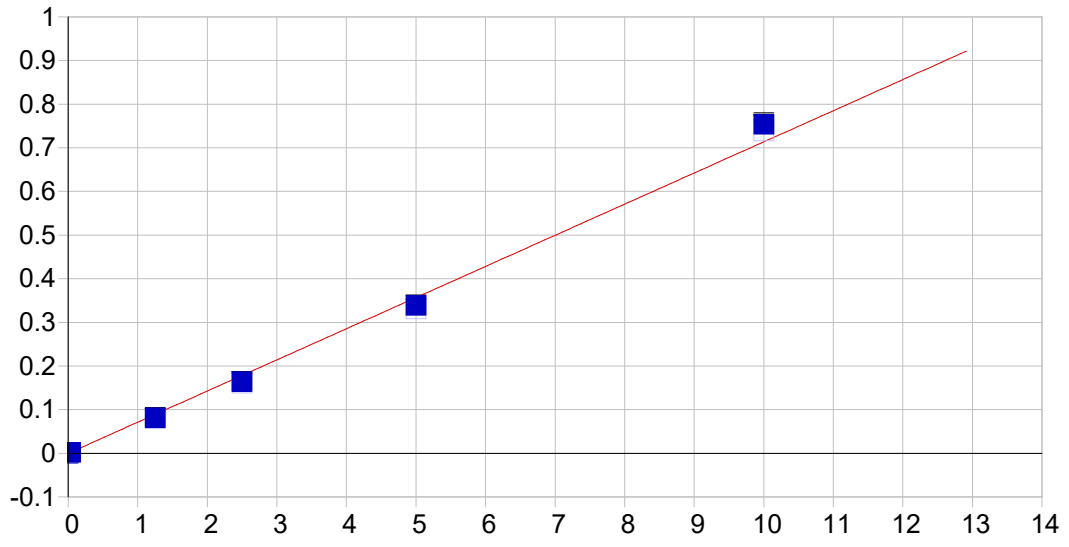
Pb 220.353 {453}

Date of Fit:	12/17/2024 16:45:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000531	Re-Slope:	1.000000
A1 (Gain):	0.228999	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999829	Status:	OK.
Std Error of Est:	0.000159		
Predicted MDL:	0.002474		
Predicted MQL:	0.008248		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00053	.000	1
S1	.01000	.00835	-.002	-16.5	.00243	.000	1
S2	6.2500	6.0537	-.196	-3.14	1.3853	.006	1
S3	12.500	12.139	-.361	-2.89	2.7773	.014	1
S4	25.000	24.758	-.242	-.967	5.6639	.010	1
S5	50.000	50.801	.801	1.60	11.621	.039	1

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5



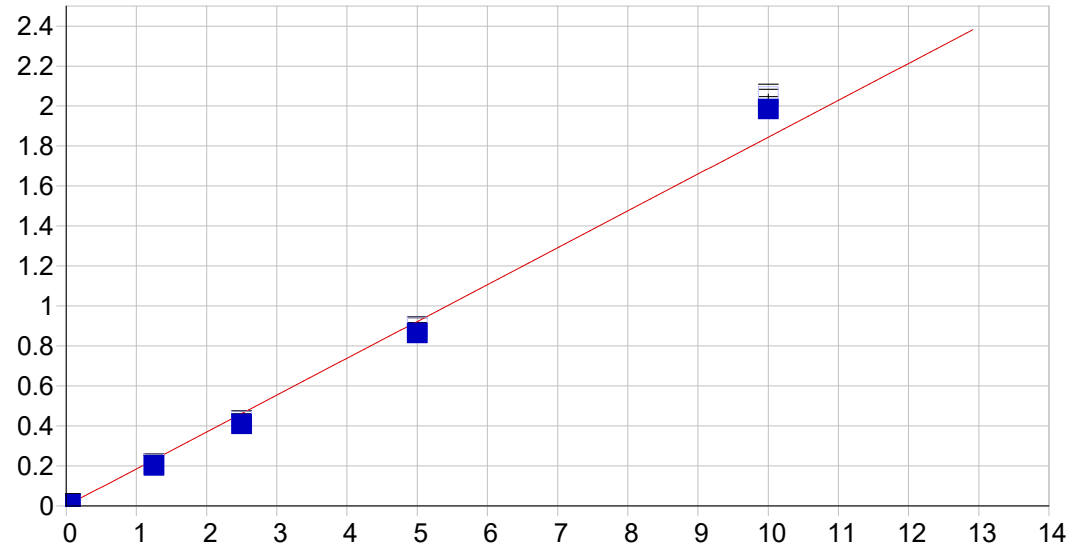
Se 196.090 {472}

Date of Fit:	12/17/2024 16:45:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000133	Re-Slope:	1.000000
A1 (Gain):	0.071378	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998022	Status:	OK.
Std Error of Est:	0.000138		
Predicted MDL:	0.004683		
Predicted MQL:	0.015611		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00013	.000	1
S1	.03500	.02746	-.008	-21.6	.00182	.000	1
S2	1.2500	1.1400	-.110	-8.80	.07923	.000	1
S3	2.5000	2.3038	-.196	-7.85	.16029	.000	1
S4	5.0000	4.7490	-.251	-5.02	.33081	.001	1
S5	10.000	10.565	.565	5.65	.73790	.003	1

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5



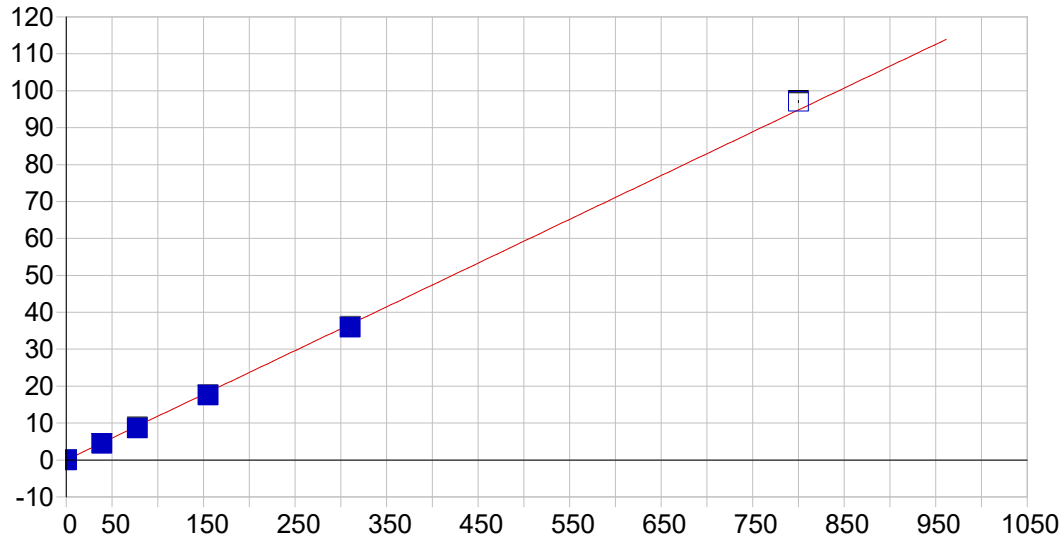
Sb 206.833 {463}

Date of Fit:	12/17/2024 16:45:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000972	Re-Slope:	1.000000
A1 (Gain):	0.184322	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.996729	Status:	OK.
Std Error of Est:	0.000635		
Predicted MDL:	0.002528		
Predicted MQL:	0.008427		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	.00098	.000	1
S1	.06000	.05061	-.009	-15.7	.01030	.000	1
S2	1.2500	1.0930	-.157	-12.6	.21015	.001	1
S3	2.5000	2.2153	-.285	-11.4	.42471	.002	1
S4	5.0000	4.6852	-.315	-6.30	.89536	.003	1
S5	10.000	10.766	.766	7.66	2.0469	.013	1

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5



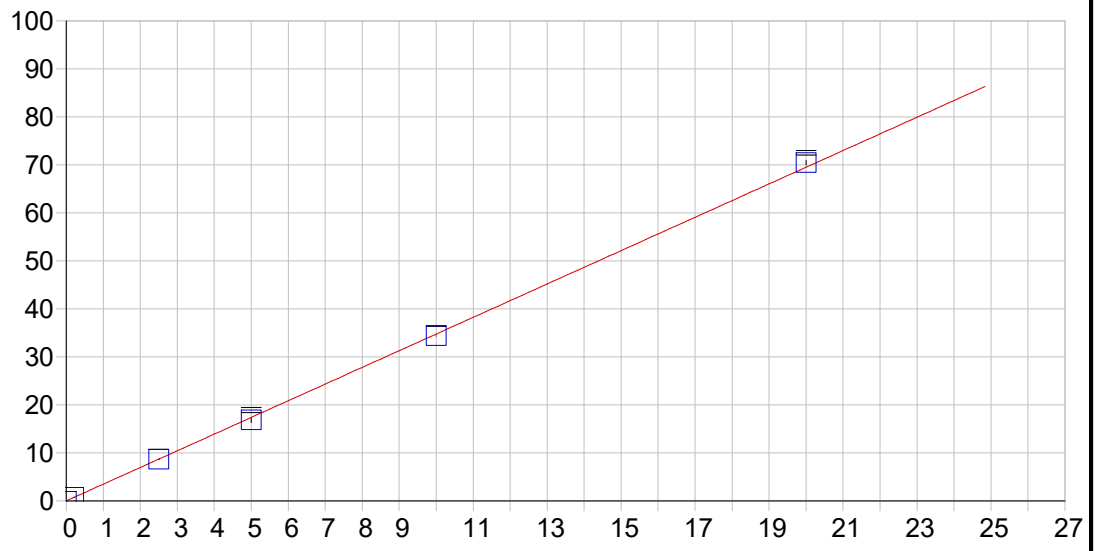
Al 396.152 { 85}

Date of Fit:	12/17/2024 16:45:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.004455	Re-Slope:	1.000000
A1 (Gain):	0.118506	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999556	Status:	OK.
Std Error of Est:	0.002198		
Predicted MDL:	0.029473		
Predicted MQL:	0.098245		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00445	.004	1
S1	.20000	.21732	.017	8.66	.02134	.002	1
S2	38.750	37.438	-1.31	-3.39	4.4371	.012	1
S3	77.500	72.943	-4.56	-5.88	8.6497	.278	1
S4	155.00	148.14	-6.86	-4.42	17.571	.015	1
S5	310.00	303.34	-6.66	-2.15	35.984	.220	1
S6	800.00	819.39	19.4	2.42	97.098	.317	1

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5



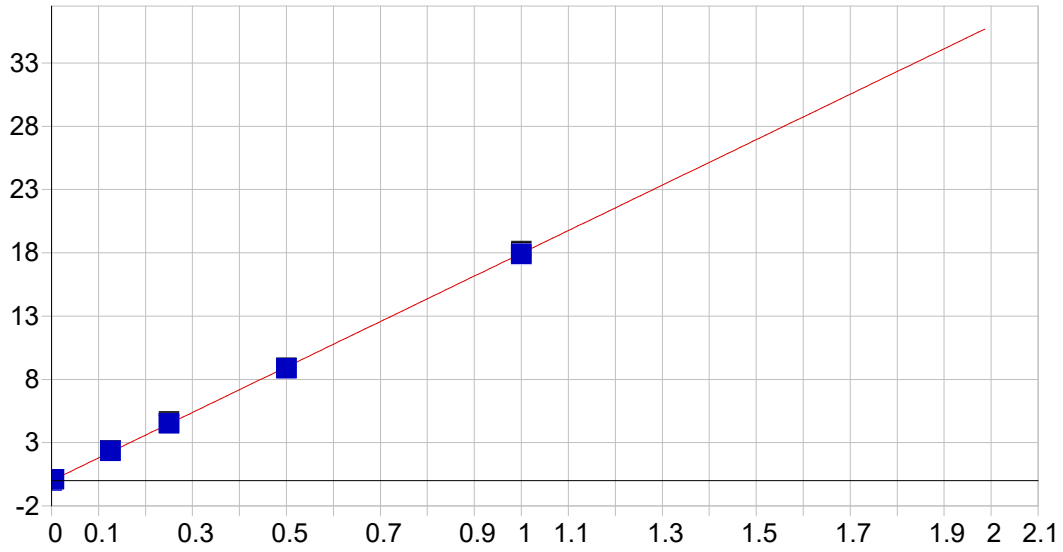
Ba 493.409 { 68}

Date of Fit:	12/17/2024 16:45:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.016246	Re-Slope:	1.000000
A1 (Gain):	3.474981	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999864	Status:	OK.
Std Error of Est:	0.006082		
Predicted MDL:	0.001740		
Predicted MQL:	0.005801		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.01624	.007	1
S1	.20000	.20752	.008	3.76	.73739	.005	1
S2	2.5000	2.4861	-.014	-.557	8.6553	.022	1
S3	5.0000	4.8446	-.155	-3.11	16.851	.545	1
S4	10.000	9.8874	-.113	-1.13	34.375	.033	1
S5	20.000	20.274	.274	1.37	70.469	.482	1

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5



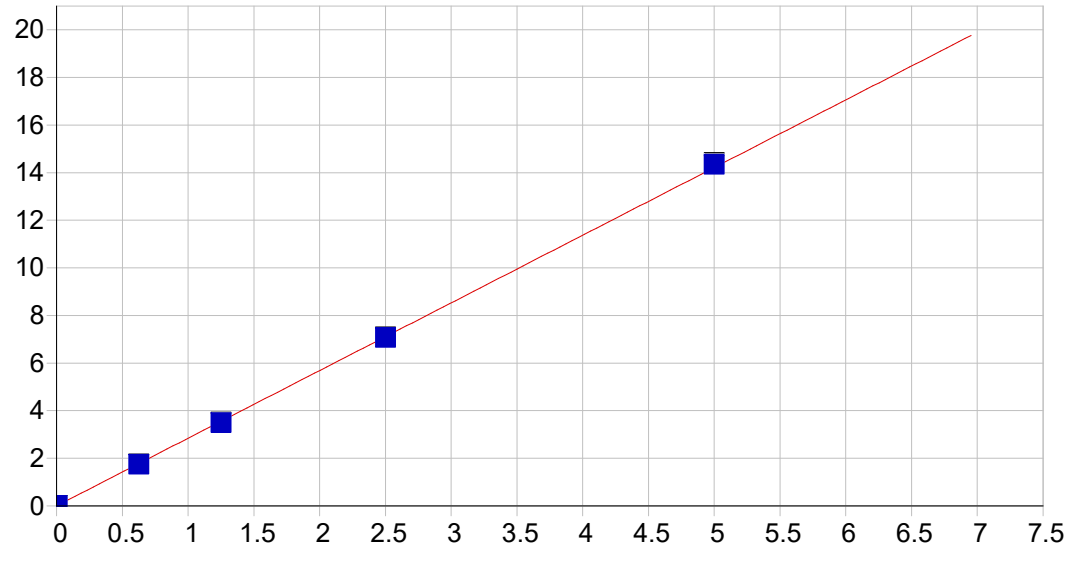
Be 234.861 {144}

Date of Fit:	12/17/2024 16:45:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001461	Re-Slope:	1.000000
A1 (Gain):	17.961885	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999893	Status:	OK.
Std Error of Est:	0.000980		
Predicted MDL:	0.000126		
Predicted MQL:	0.000421		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00147	.002	1
S1	.00500	.00555	.001	11.0	.09818	.004	1
S2	.12500	.13065	.006	4.52	2.3349	.013	1
S3	.25000	.25174	.002	.695	4.4996	.137	1
S4	.50000	.49437	-.006	-1.13	8.8371	.031	1
S5	1.0000	.99769	-.002	-.231	17.837	.198	1

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5



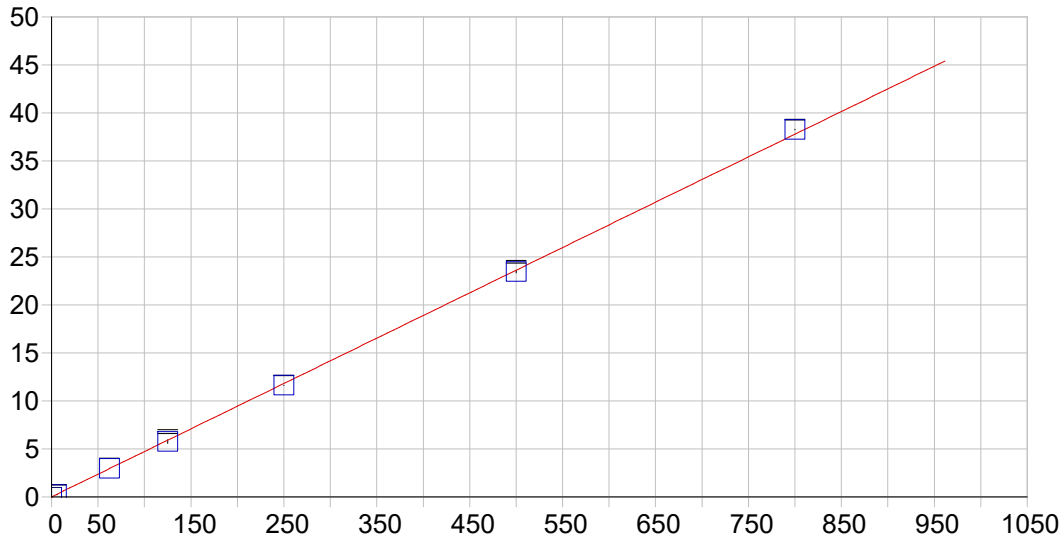
Cd 214.438 {457}

Date of Fit:	12/17/2024 16:45:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000766	Re-Slope:	1.000000
A1 (Gain):	2.842980	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999940	Status:	OK.
Std Error of Est:	0.000261		
Predicted MDL:	0.000125		
Predicted MQL:	0.000418		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00077	.000	1
S1	.00500	.00480	-.000	-3.92	.01448	.000	1
S2	.62500	.61266	-.012	-1.97	1.7453	.011	1
S3	1.2500	1.2276	-.022	-1.79	3.4963	.020	1
S4	2.5000	2.4889	-.011	-.446	7.0874	.007	1
S5	5.0000	5.0461	.046	.921	14.368	.054	1

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5



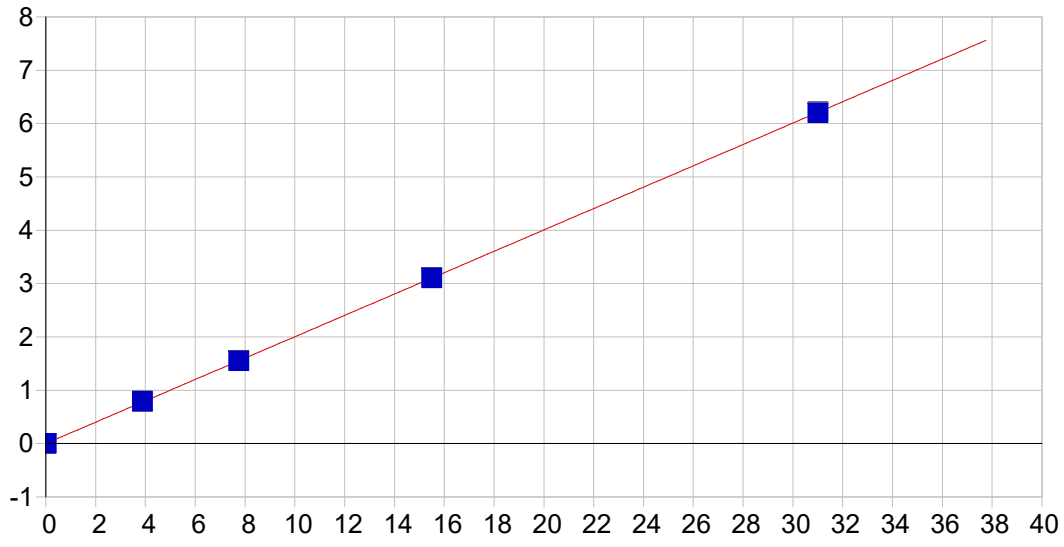
Ca 373.690 { 90}

Date of Fit:	12/17/2024 16:45:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.007380	Re-Slope:	1.000000
A1 (Gain):	0.047218	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999915	Status:	OK.
Std Error of Est:	0.002153		
Predicted MDL:	0.057108		
Predicted MQL:	0.190359		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00003	.000	.000	.00738	.003	1
S1	5.0000	5.1137	.114	2.27	.24884	.000	1
S2	62.500	62.906	.406	.649	2.9777	.015	1
S3	125.00	121.84	-3.16	-2.53	5.7606	.193	1
S4	250.00	245.97	-4.03	-1.61	11.621	.018	1
S5	500.00	496.67	-3.33	-.666	23.459	.127	1
S6	800.00	810.00	10.0	1.25	38.255	.030	1

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5



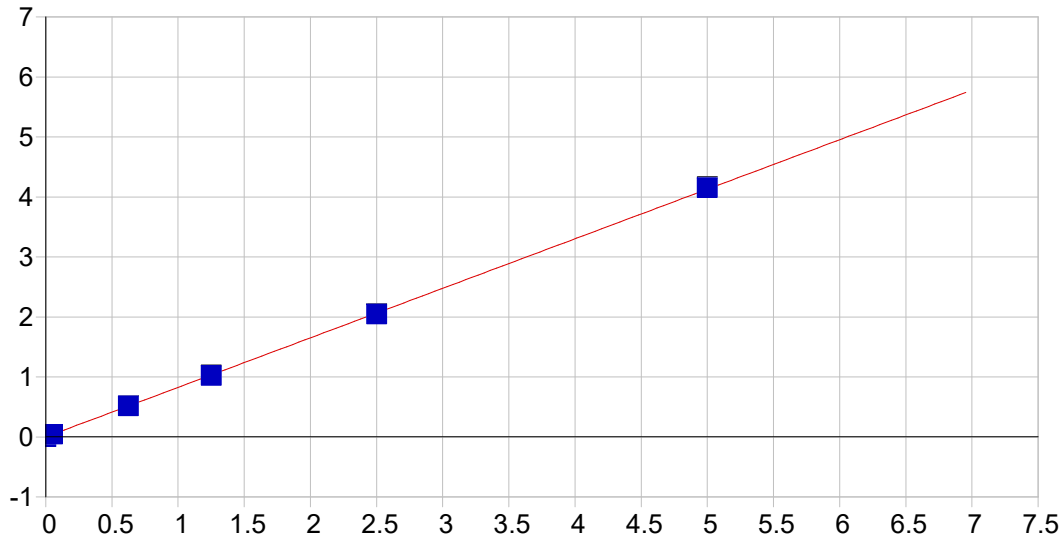
Cr 267.716 {126}

Date of Fit:	12/17/2024 16:45:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000038	Re-Slope:	1.000000
A1 (Gain):	0.200296	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999988	Status:	OK.
Std Error of Est:	0.000029		
Predicted MDL:	0.001037		
Predicted MQL:	0.003458		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00004	.000	1
S1	.01000	.01126	.001	12.6	.00230	.000	1
S2	3.8750	3.9425	.068	1.74	.79030	.004	1
S3	7.7500	7.7315	-.018	-.238	1.5498	.001	1
S4	15.500	15.483	-.017	-.107	3.1037	.003	1
S5	31.000	30.966	-.034	-.109	6.2073	.009	1

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5



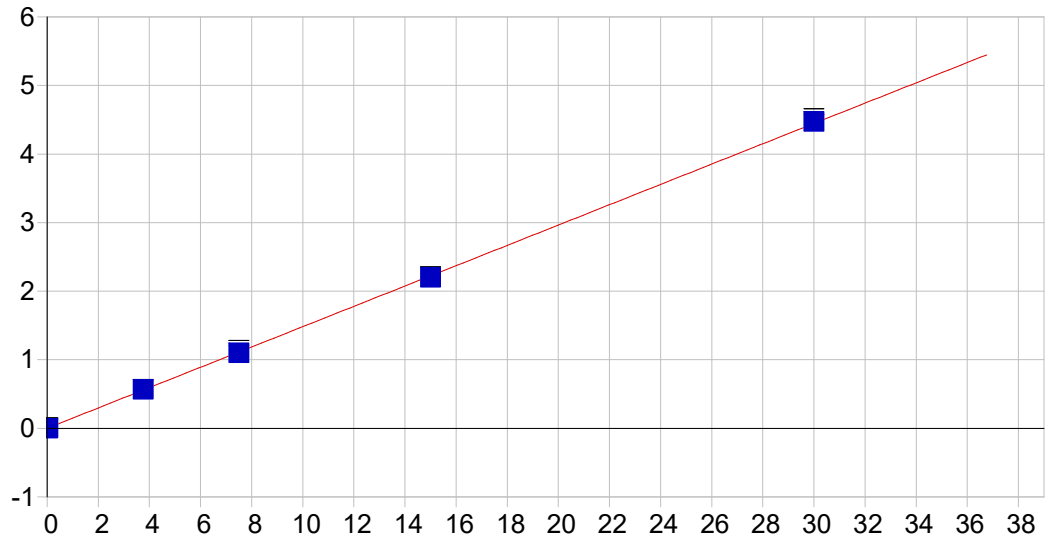
Co 228.616 {448}

Date of Fit:	12/17/2024 16:45:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000250	Re-Slope:	1.000000
A1 (Gain):	0.825606	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999974	Status:	OK.
Std Error of Est:	0.000159		
Predicted MDL:	0.000465		
Predicted MQL:	0.001549		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00025	.000	1
S1	.05000	.05202	.002	4.05	.04283	.000	1
S2	.62500	.62646	.001	.233	.51862	.003	1
S3	1.2500	1.2399	-.010	-.809	1.0267	.005	1
S4	2.5000	2.4791	-.021	-.837	2.0531	.005	1
S5	5.0000	5.0276	.028	.551	4.1638	.011	1

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5



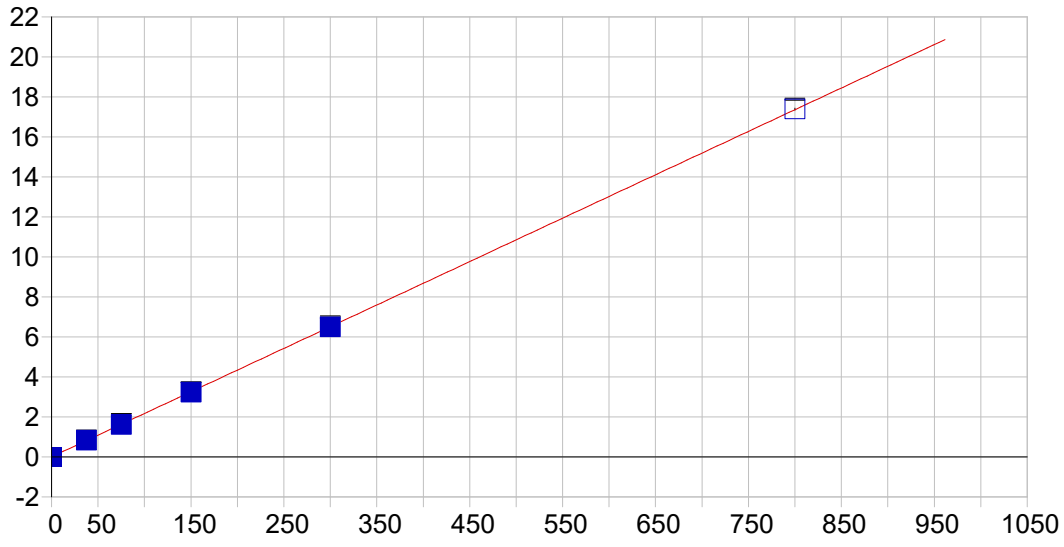
Cu 324.754 {104}

Date of Fit:	12/17/2024 16:45:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001283	Re-Slope:	1.000000
A1 (Gain):	0.148166	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999955	Status:	OK.
Std Error of Est:	0.000064		
Predicted MDL:	0.011243		
Predicted MQL:	0.037478		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00128	.001	1
S1	.02500	.02233	-.003	-10.7	.00459	.002	1
S2	3.7500	3.8108	.061	1.62	.56585	.003	1
S3	7.5000	7.4170	-.083	-1.11	1.1001	.038	1
S4	15.000	14.840	-.160	-1.07	2.1998	.009	1
S5	30.000	30.185	.185	.617	4.4732	.043	1

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5



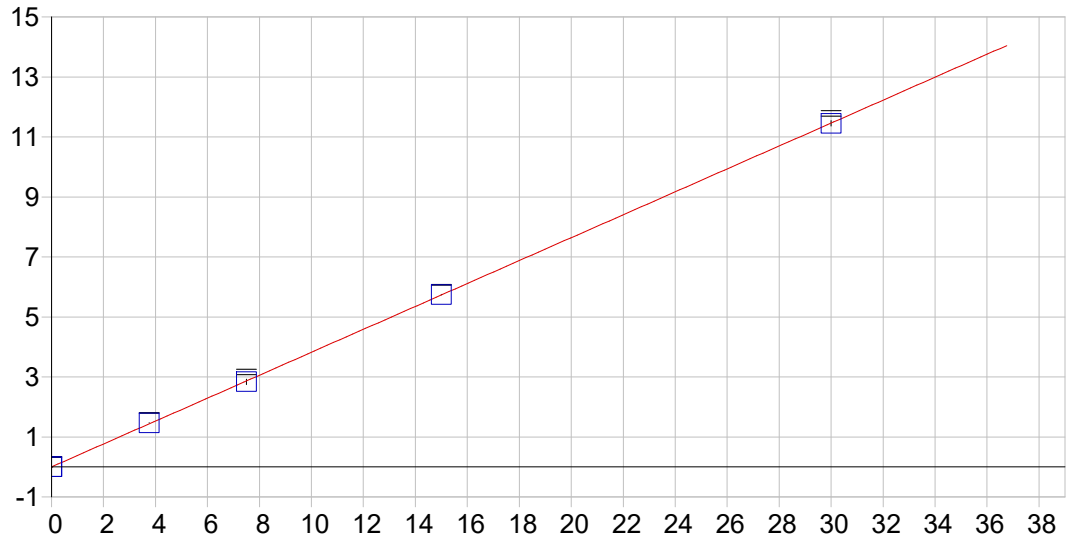
Fe 259.837 {130}

Date of Fit:	12/17/2024 16:45:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000229	Re-Slope:	1.000000
A1 (Gain):	0.021702	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999986	Status:	OK.
Std Error of Est:	0.000049		
Predicted MDL:	0.050745		
Predicted MQL:	0.169150		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00023	.001	1
S1	.10000	.09791	-.002	-2.09	.00235	.001	1
S2	37.500	38.324	.824	2.20	.83213	.002	1
S3	75.000	74.204	-.796	-1.06	1.6110	.051	1
S4	150.00	149.23	-.768	-.512	3.2396	.008	1
S5	300.00	299.08	-.921	-.307	6.4924	.051	1
S6	800.00	801.66	1.66	.208	17.398	.050	1

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5



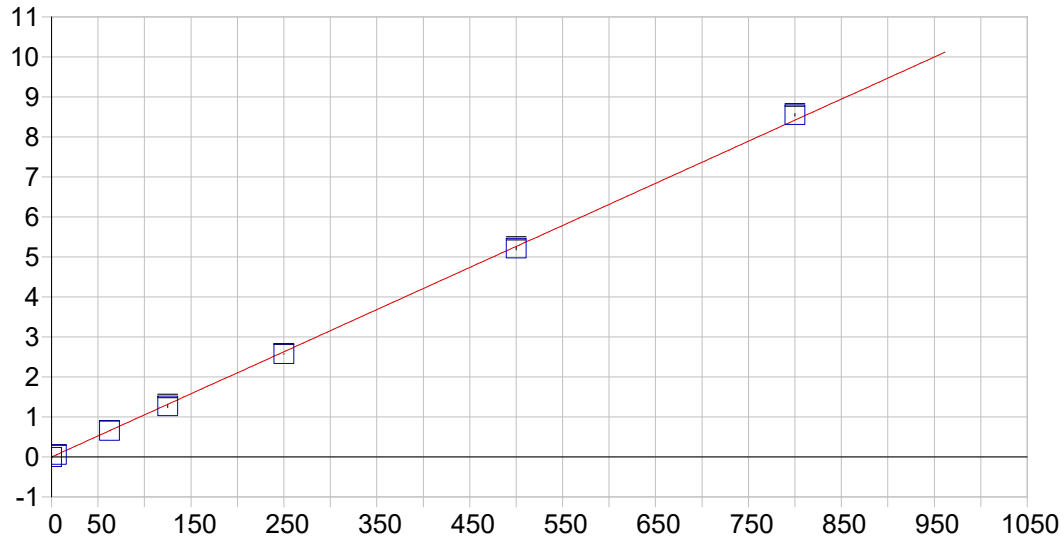
Mn 257.610 {131}

Date of Fit:	12/17/2024 16:45:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000077	Re-Slope:	1.000000
A1 (Gain):	0.382063	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999977	Status:	OK.
Std Error of Est:	0.000093		
Predicted MDL:	0.002371		
Predicted MQL:	0.007903		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00008	.002	1
S1	.01500	.01494	-.000	-.387	.00579	.001	1
S2	3.7500	3.8344	.084	2.25	1.4651	.005	1
S3	7.5000	7.4275	-.073	-.967	2.8378	.092	1
S4	15.000	15.013	.013	.089	5.7361	.011	1
S5	30.000	29.975	-.025	-.084	11.452	.090	1

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5



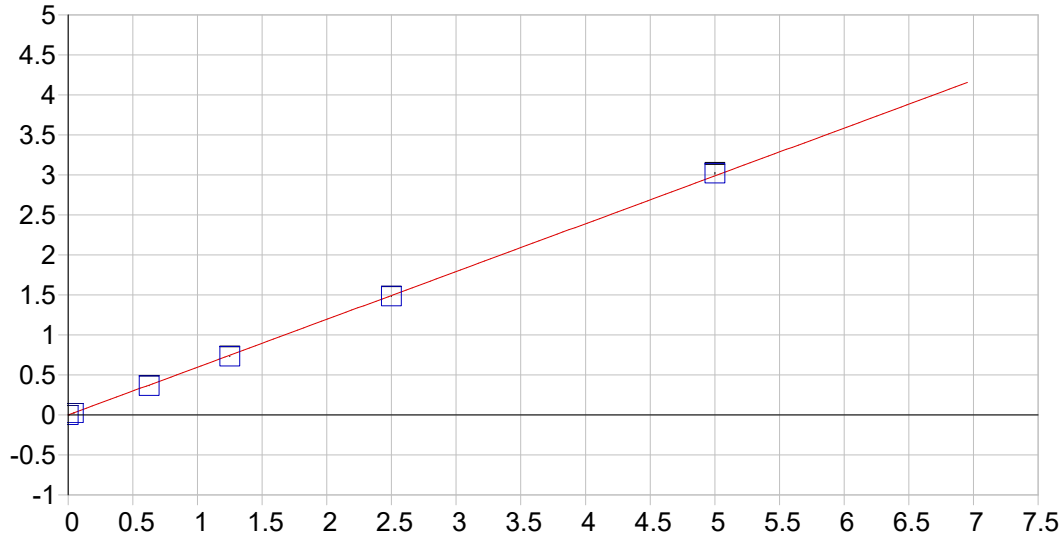
Mg 279.079 {121}

Date of Fit:	12/17/2024 16:45:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001782	Re-Slope:	1.000000
A1 (Gain):	0.010525	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999870	Status:	OK.
Std Error of Est:	0.000592		
Predicted MDL:	0.106445		
Predicted MQL:	0.354816		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00007	.000	.000	-.00178	.001	1
S1	5.0000	5.1347	.135	2.69	.05226	.000	1
S2	62.500	62.482	-.018	-.029	.65585	.003	1
S3	125.00	121.38	-3.62	-2.90	1.2757	.041	1
S4	250.00	245.02	-4.98	-1.99	2.5771	.009	1
S5	500.00	495.64	-4.36	-.872	5.2149	.042	1
S6	800.00	812.84	12.8	1.61	8.5536	.031	1

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5



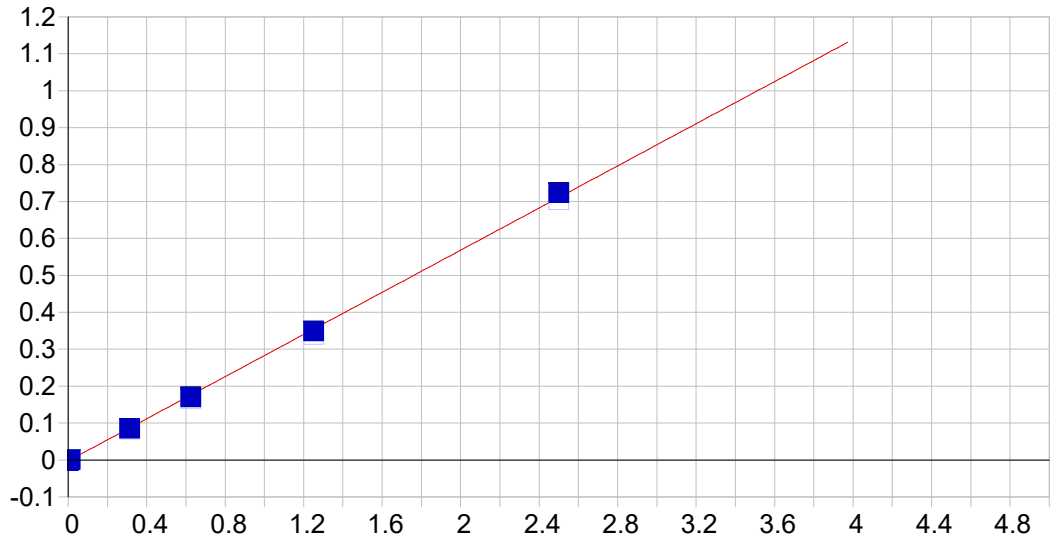
Ni 231.604 {446}

Date of Fit:	12/17/2024 16:45:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000616	Re-Slope:	1.000000
A1 (Gain):	0.597599	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999927	Status:	OK.
Std Error of Est:	0.000172		
Predicted MDL:	0.000720		
Predicted MQL:	0.002400		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00061	.000	1
S1	.04000	.03918	-.001	-2.04	.02280	.000	1
S2	.62500	.61138	-.014	-2.18	.36475	.002	1
S3	1.2500	1.2285	-.022	-1.72	.73351	.004	1
S4	2.5000	2.4826	-.017	-.695	1.4830	.003	1
S5	5.0000	5.0533	.053	1.07	3.0193	.012	1

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5



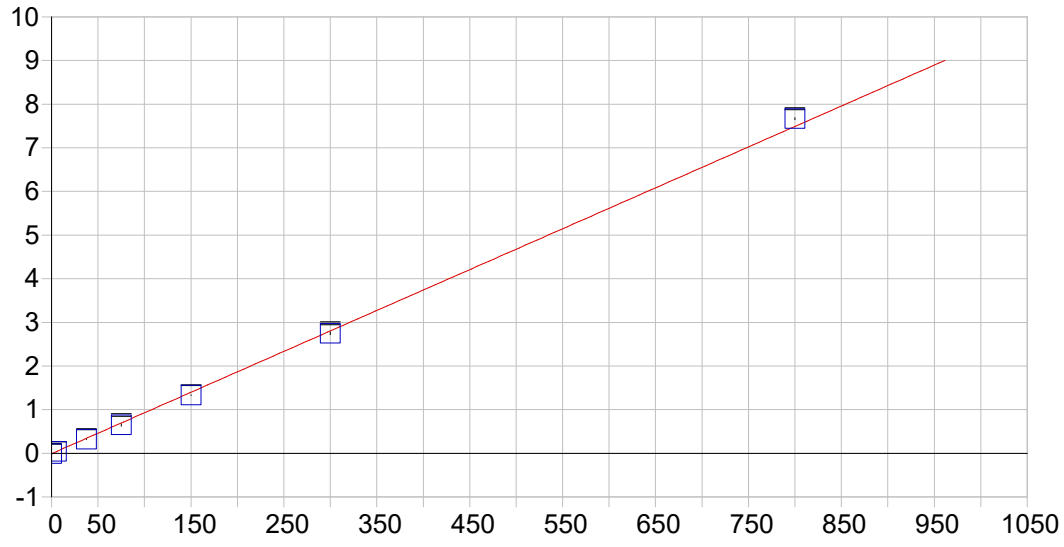
Ag 328.068 {103}

Date of Fit:	12/17/2024 16:45:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.002549	Re-Slope:	1.000000
A1 (Gain):	0.285395	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999808	Status:	OK.
Std Error of Est:	0.000046		
Predicted MDL:	0.001177		
Predicted MQL:	0.003924		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00255	.000	1
S1	.01000	.01054	.001	5.42	.00045	.000	1
S2	.31250	.30783	-.005	-1.49	.08295	.000	1
S3	.62500	.60613	-.019	-3.02	.16573	.000	1
S4	1.2500	1.2302	-.020	-1.58	.33914	.001	1
S5	2.5000	2.5427	.043	1.71	.70430	.001	1

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

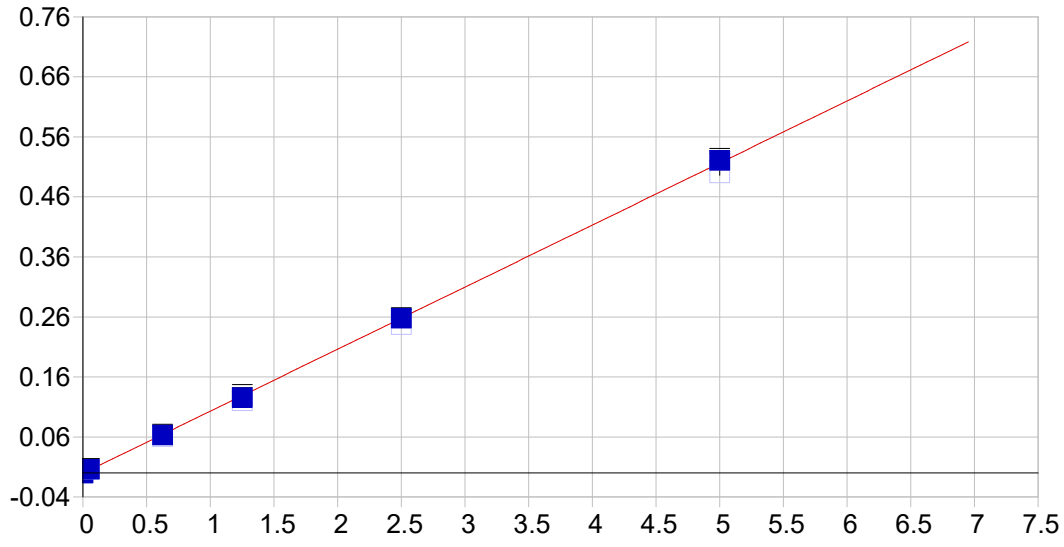


Na 818.326 { 41}

Date of Fit:	12/17/2024 16:45:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.009334	Re-Slope:	1.000000
A1 (Gain):	0.009373	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999533	Status:	OK.
Std Error of Est:	0.000886		
Predicted MDL:	0.866930		
Predicted MQL:	2.889766		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00076	.001	.000	-.00933	.006	1
S1	5.0000	5.0193	.019	.386	.03771	.004	1
S2	37.500	35.488	-2.01	-5.37	.32331	.010	1
S3	75.000	70.427	-4.57	-6.10	.65081	.027	1
S4	150.00	142.98	-7.02	-4.68	1.3309	.008	1
S5	300.00	294.42	-5.58	-1.86	2.7504	.032	1
S6	800.00	819.17	19.2	2.40	7.6691	.023	1



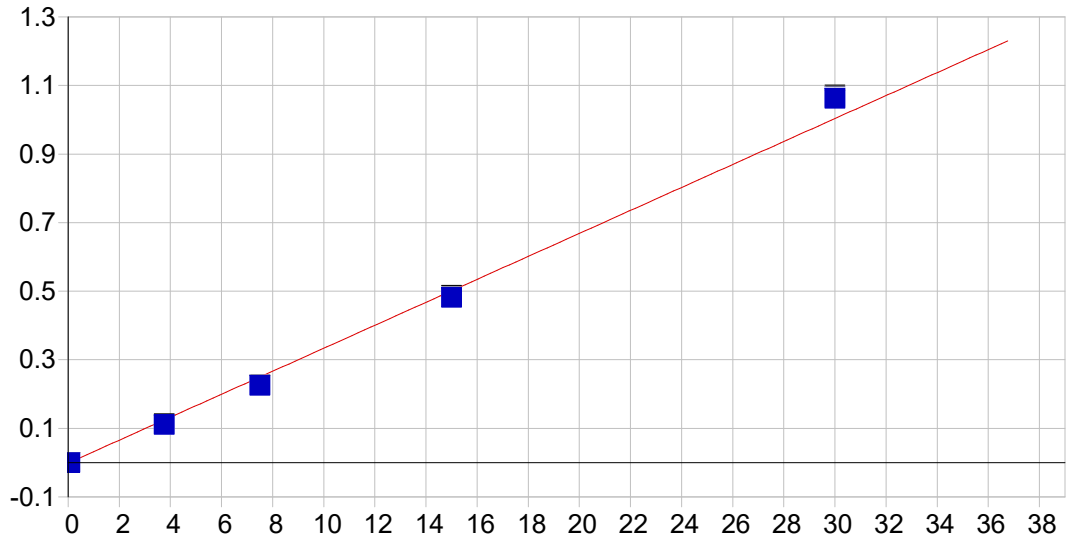
V 292.402 {115}

Date of Fit:	12/17/2024 16:45:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000684	Re-Slope:	1.000000
A1 (Gain):	0.103444	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999712	Status:	OK.
Std Error of Est:	0.000063		
Predicted MDL:	0.012809		
Predicted MQL:	0.042698		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00068	.002	1
S1	.05000	.06329	.013	26.6	.00585	.001	1
S2	.62500	.61259	-.012	-1.99	.06009	.002	1
S3	1.2500	1.2159	-.034	-2.73	.11991	.005	1
S4	2.5000	2.4953	-.005	-.187	.24708	.001	1
S5	5.0000	5.0374	.037	.748	.49967	.004	1

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5



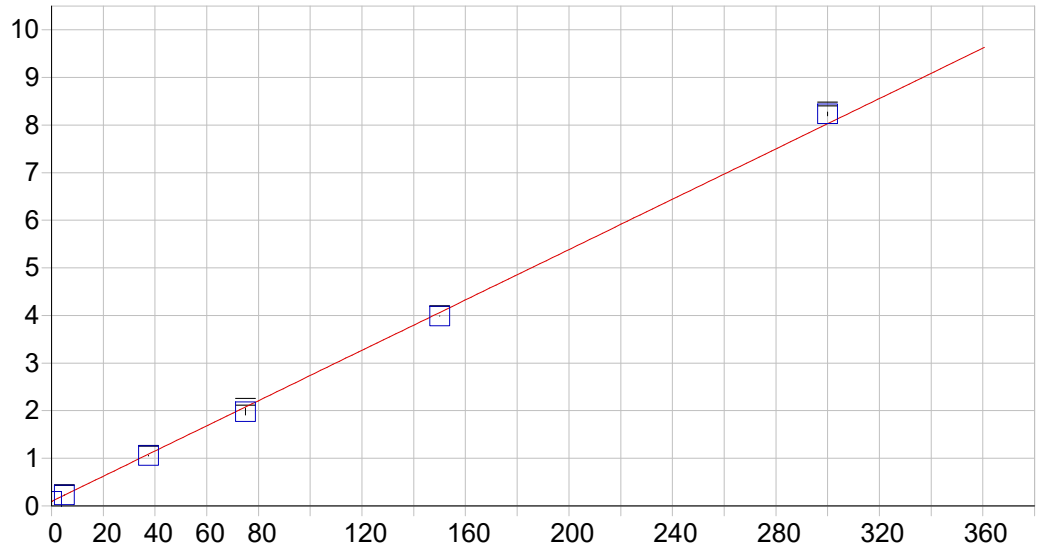
Zn 213.856 {158}

Date of Fit:	12/17/2024 16:45:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001514	Re-Slope:	1.000000
A1 (Gain):	0.033505	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.997867	Status:	OK.
Std Error of Est:	0.000157		
Predicted MDL:	0.018177		
Predicted MQL:	0.060591		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	-.00151	.001	1
S1	.06000	.04990	-.010	-16.8	.00016	.000	1
S2	3.7500	3.3437	-.406	-10.8	.11113	.002	1
S3	7.5000	6.7657	-.734	-9.79	.22640	.001	1
S4	15.000	14.402	-.598	-3.99	.48348	.005	1
S5	30.000	31.749	1.75	5.83	1.0671	.005	1

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5



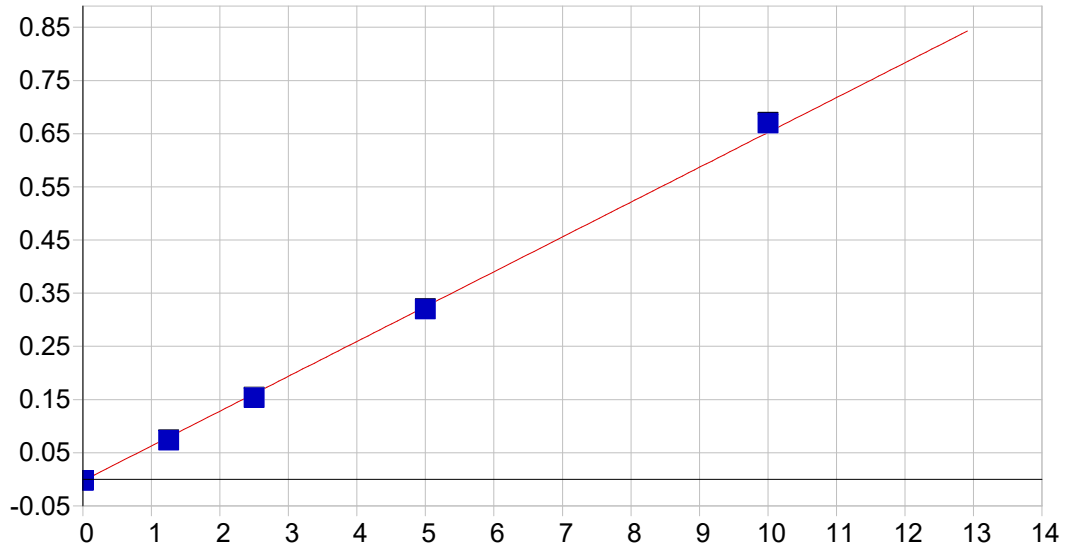
K 769.896 { 44}

Date of Fit:	12/17/2024 16:45:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.095722	Re-Slope:	1.000000
A1 (Gain):	0.026443	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999570	Status:	OK.
Std Error of Est:	0.001598		
Predicted MDL:	0.215306		
Predicted MQL:	0.717687		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00033	.000	.000	.09573	.004	1
S1	5.0000	5.0581	.058	1.16	.22947	.005	1
S2	37.500	36.240	-1.26	-3.36	1.0540	.006	1
S3	75.000	71.217	-3.78	-5.04	1.9789	.070	1
S4	150.00	147.20	-2.80	-1.86	3.9882	.003	1
S5	300.00	307.78	7.78	2.59	8.2342	.042	1

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5



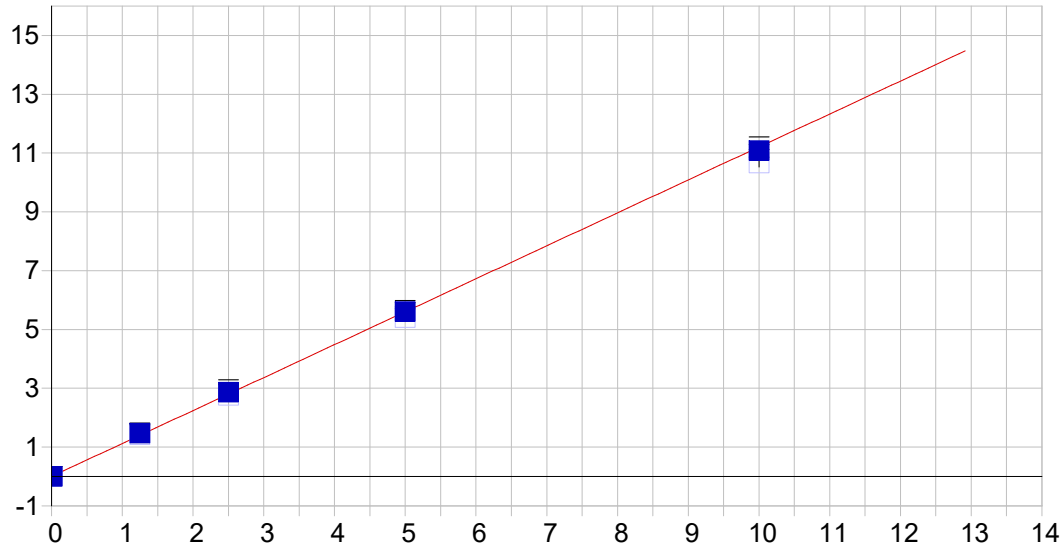
P 177.495 {490}

Date of Fit:	12/17/2024 16:45:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.002783	Re-Slope:	1.000000
A1 (Gain):	0.065509	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999472	Status:	OK.
Std Error of Est:	0.000036		
Predicted MDL:	0.002701		
Predicted MQL:	0.009003		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00278	.000	1
S1	.01000	.01169	.002	16.9	-.00201	.000	1
S2	1.2500	1.1655	-.084	-6.76	.07345	.001	1
S3	2.5000	2.3833	-.117	-4.67	.15311	.001	1
S4	5.0000	4.9290	-.071	-1.42	.31964	.000	1
S5	10.000	10.270	.270	2.70	.66907	.002	1

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5



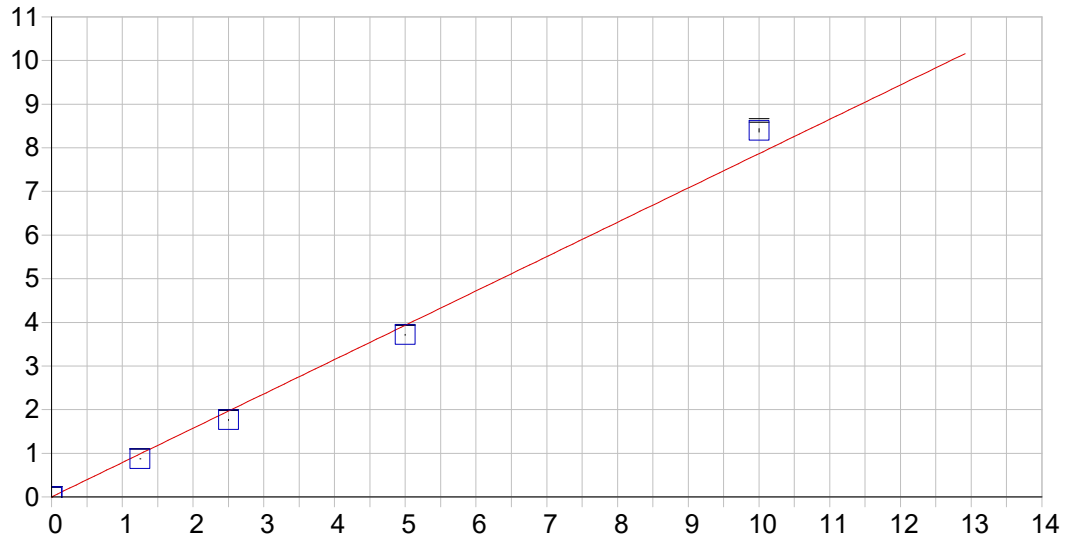
B 249.678 {135}

Date of Fit:	12/17/2024 16:45:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002209	Re-Slope:	1.000000
A1 (Gain):	1.120524	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999544	Status:	OK.
Std Error of Est:	0.000546		
Predicted MDL:	0.002472		
Predicted MQL:	0.008239		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00222	.003	1
S1	.01000	-.00019	-.010	-102.	.00193	.003	1
S2	1.2500	1.3118	.062	4.95	1.4189	.008	1
S3	2.5000	2.5542	.054	2.17	2.7577	.081	1
S4	5.0000	5.0048	.005	.097	5.3972	.035	1
S5	10.000	9.8897	-.110	-1.10	10.658	.130	1

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5



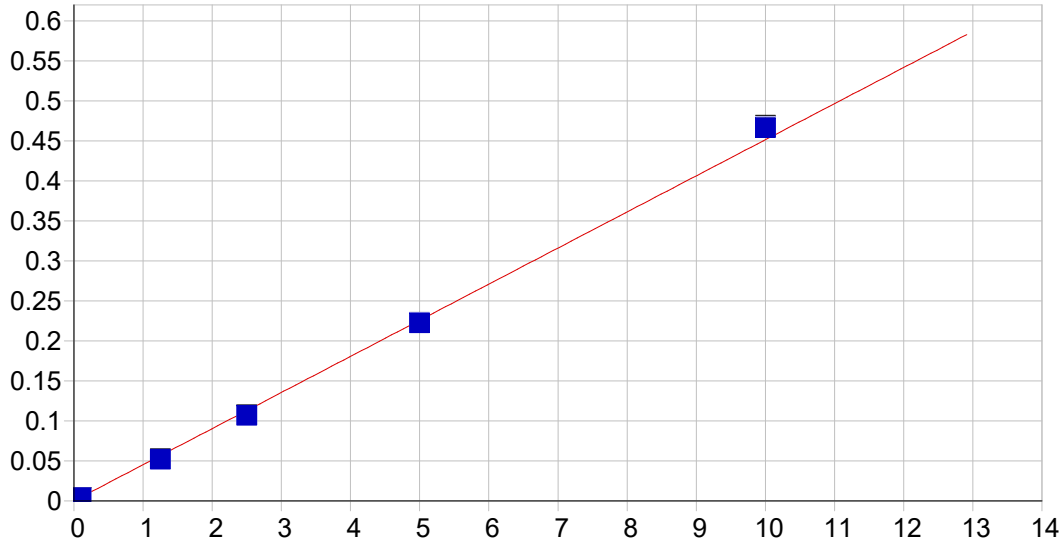
Mo 202.030 {467}

Date of Fit:	12/17/2024 16:45:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000398	Re-Slope:	1.000000
A1 (Gain):	0.786619	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.997233	Status:	OK.
Std Error of Est:	0.000983		
Predicted MDL:	0.000478		
Predicted MQL:	0.001594		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00040	.000	1
S1	.01000	.00905	-.001	-9.51	.00752	.000	1
S2	1.2500	1.1086	-.141	-11.3	.87242	.003	1
S3	2.5000	2.2417	-.258	-10.3	1.7637	.011	1
S4	5.0000	4.7222	-.278	-5.56	3.7150	.012	1
S5	10.000	10.678	.678	6.78	8.4003	.038	1

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

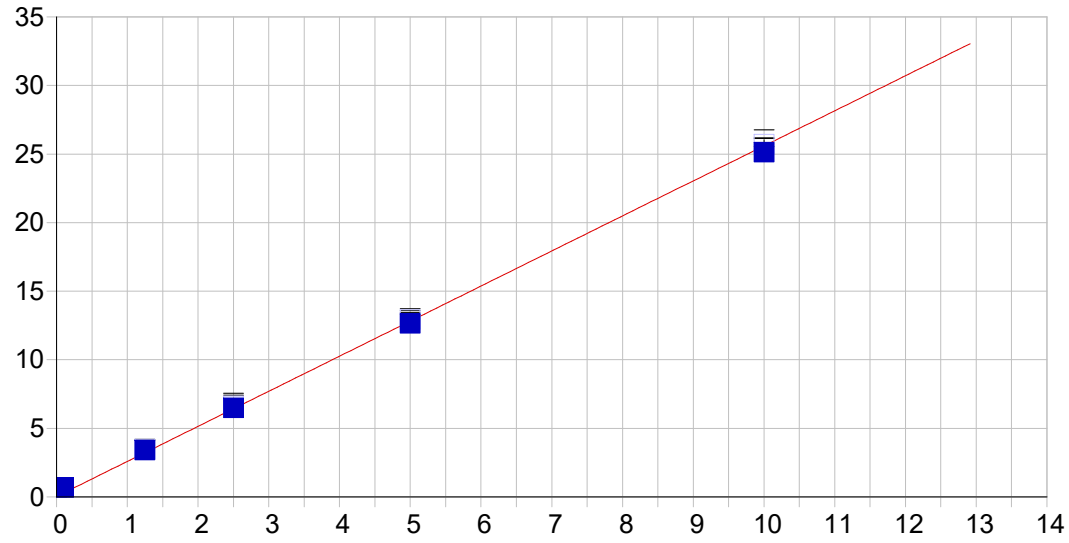


S 182.034 {485}

Date of Fit:	12/17/2024 16:45:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000130	Re-Slope:	1.000000
A1 (Gain):	0.045133	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999206	Status:	OK.
Std Error of Est:	0.000096		
Predicted MDL:	0.004616		
Predicted MQL:	0.015387		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00003	.000	.000	.00013	.000	1
S1	.10000	.08488	-.015	-15.1	.00396	.000	1
S2	1.2500	1.1493	-.101	-8.06	.05218	.000	1
S3	2.5000	2.3614	-.139	-5.54	.10707	.000	1
S4	5.0000	4.9240	-.076	-1.52	.22309	.000	1
S5	10.000	10.330	.330	3.30	.46783	.002	1



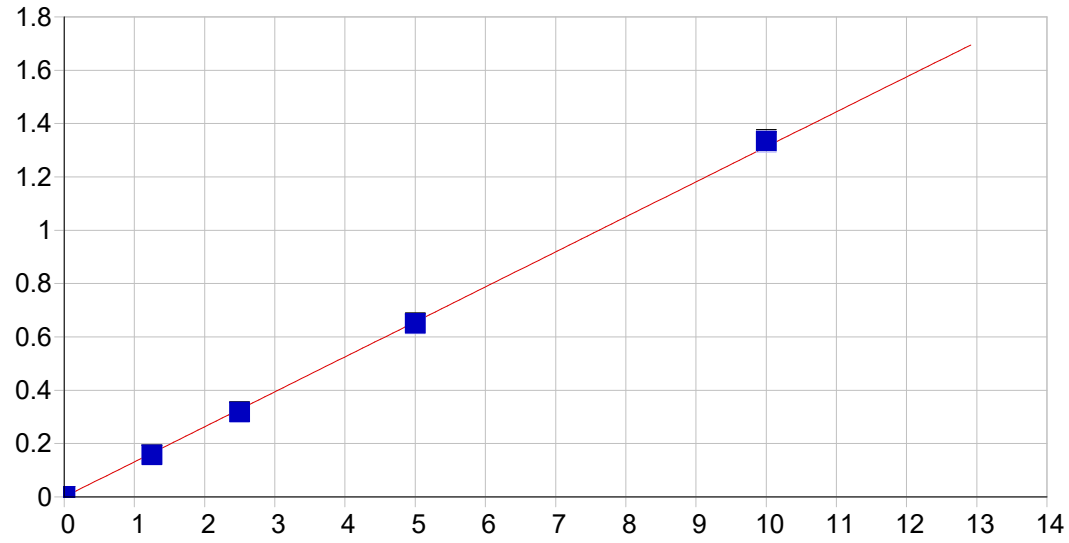
Si 251.611 {134}

Date of Fit:	12/17/2024 16:45:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.024706	Re-Slope:	1.000000
A1 (Gain):	2.557536	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.993512	Status:	OK.
Std Error of Est:	0.015910		
Predicted MDL:	0.001068		
Predicted MQL:	0.003558		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00016	-.000	.000	.02429	.001	1
S1	.10000	.25804	.158	158.	.68827	.004	1
S2	1.2500	1.3195	.070	5.56	3.4719	.016	1
S3	2.5000	2.5225	.023	.902	6.6213	.211	1
S4	5.0000	4.9327	-.067	-1.35	12.931	.073	1
S5	10.000	9.8186	-.181	-1.81	25.717	.315	1

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5



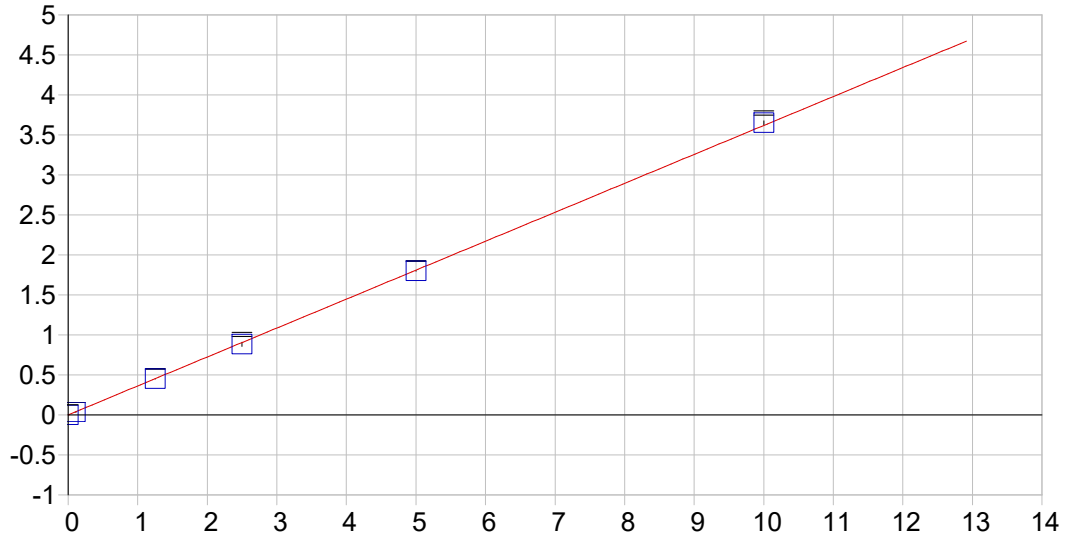
Sn 189.989 {478}

Date of Fit:	12/17/2024 16:45:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000150	Re-Slope:	1.000000
A1 (Gain):	0.131240	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999787	Status:	OK.
Std Error of Est:	0.000038		
Predicted MDL:	0.001435		
Predicted MQL:	0.004783		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00015	.000	1
S1	.00700	.00815	.001	16.4	.00118	.000	1
S2	1.2500	1.1991	-.051	-4.07	.15670	.001	1
S3	2.5000	2.4216	-.078	-3.14	.31632	.002	1
S4	5.0000	4.9591	-.041	-.819	.64769	.002	1
S5	10.000	10.169	.169	1.69	1.3282	.005	1

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5



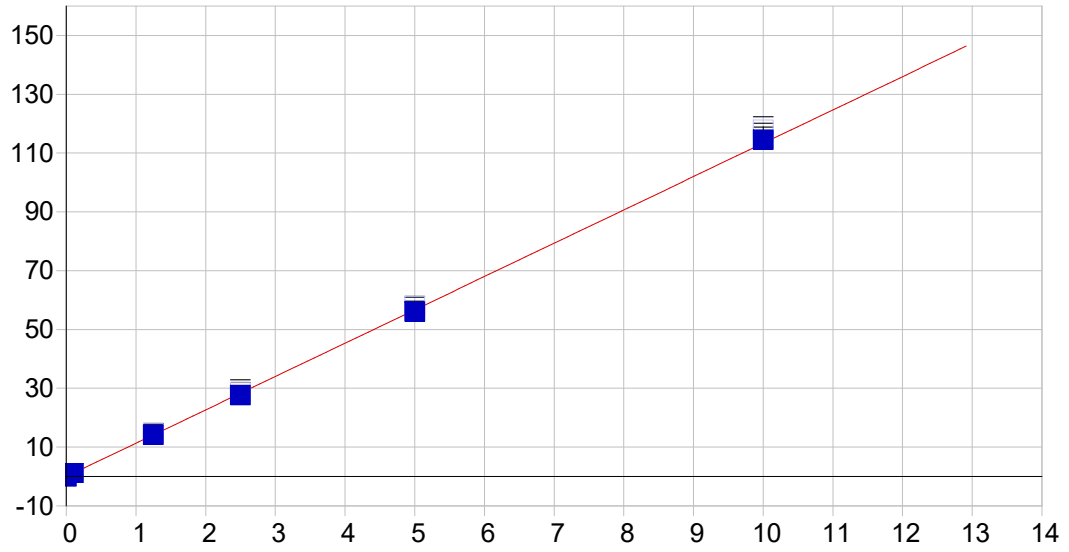
Ti 336.121 {100}

Date of Fit:	12/17/2024 16:45:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000562	Re-Slope:	1.000000
A1 (Gain):	0.361724	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999935	Status:	OK.
Std Error of Est:	0.000220		
Predicted MDL:	0.005364		
Predicted MQL:	0.017880		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00056	.002	1
S1	.10000	.10090	.001	.904	.03706	.001	1
S2	1.2500	1.2452	-.005	-.384	.45098	.004	1
S3	2.5000	2.4381	-.062	-2.48	.88247	.025	1
S4	5.0000	4.9767	-.023	-.467	1.8007	.004	1
S5	10.000	10.089	.089	.892	3.6501	.025	1

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5



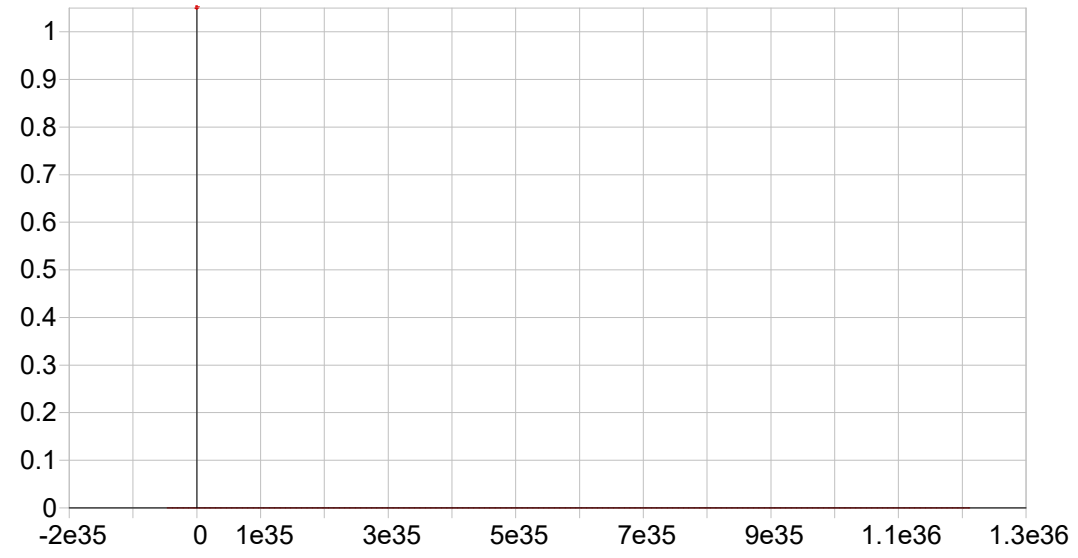
Sr 407.771 { 83}

Date of Fit:	12/17/2024 16:45:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.003414	Re-Slope:	1.000000
A1 (Gain):	11.334414	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999916	Status:	OK.
Std Error of Est:	0.008059		
Predicted MDL:	0.000295		
Predicted MQL:	0.000983		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00347	.005	1
S1	.10000	.10665	.007	6.65	1.2065	.000	1
S2	1.2500	1.2536	.004	.287	14.630	.036	1
S3	2.5000	2.4411	-.059	-2.36	28.515	.940	1
S4	5.0000	4.9486	-.051	-1.03	57.787	.174	1
S5	10.000	10.100	.100	1.00	117.88	1.05	1

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

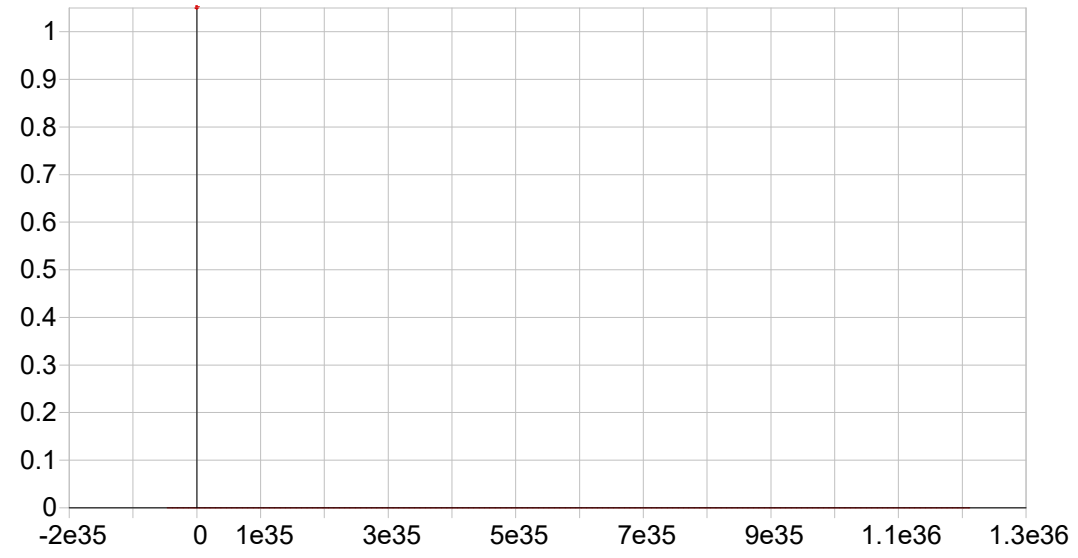


Y 224.306 {450}*

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}*

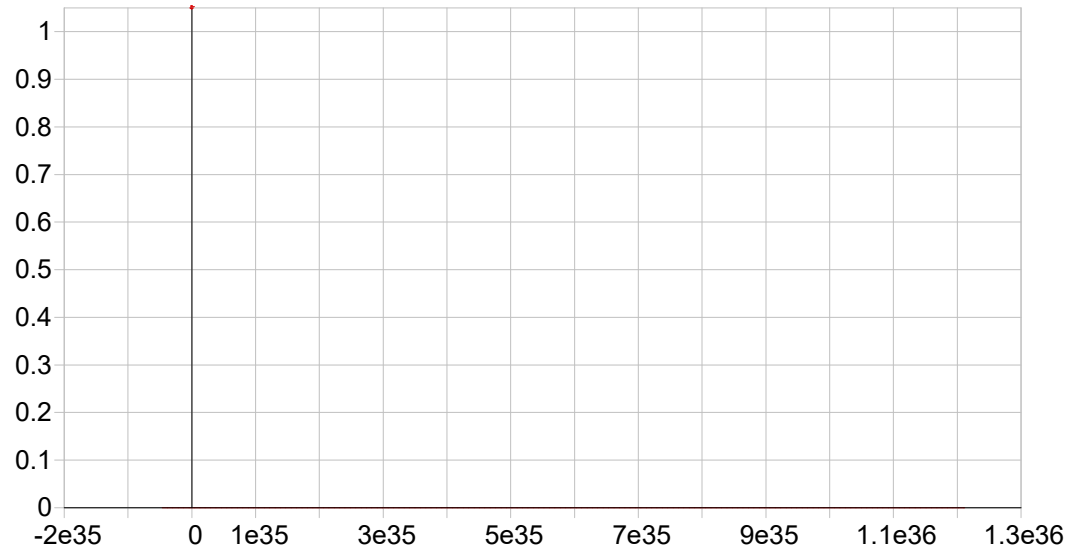
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
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



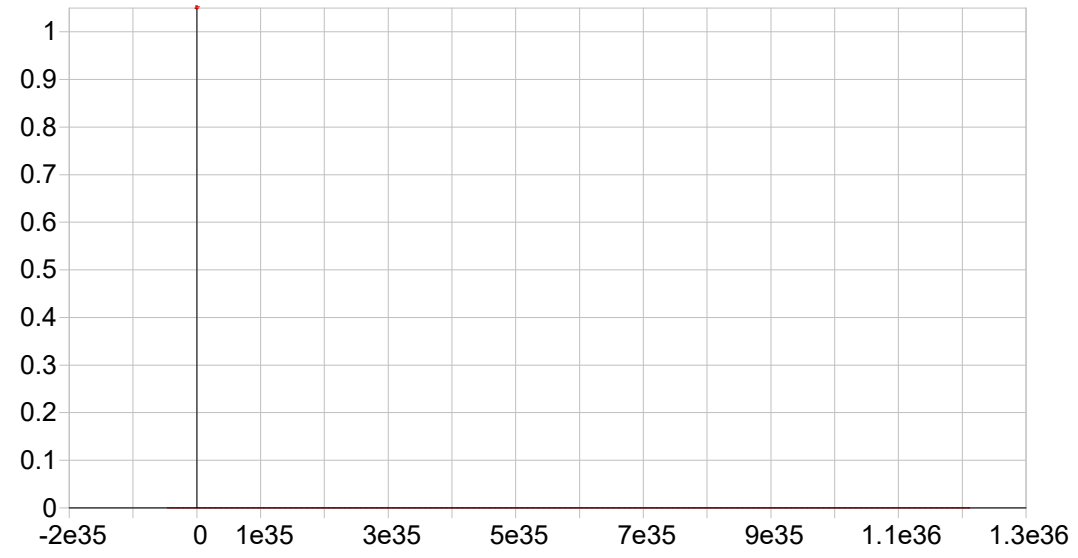
Y 371.030 { 91}*

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

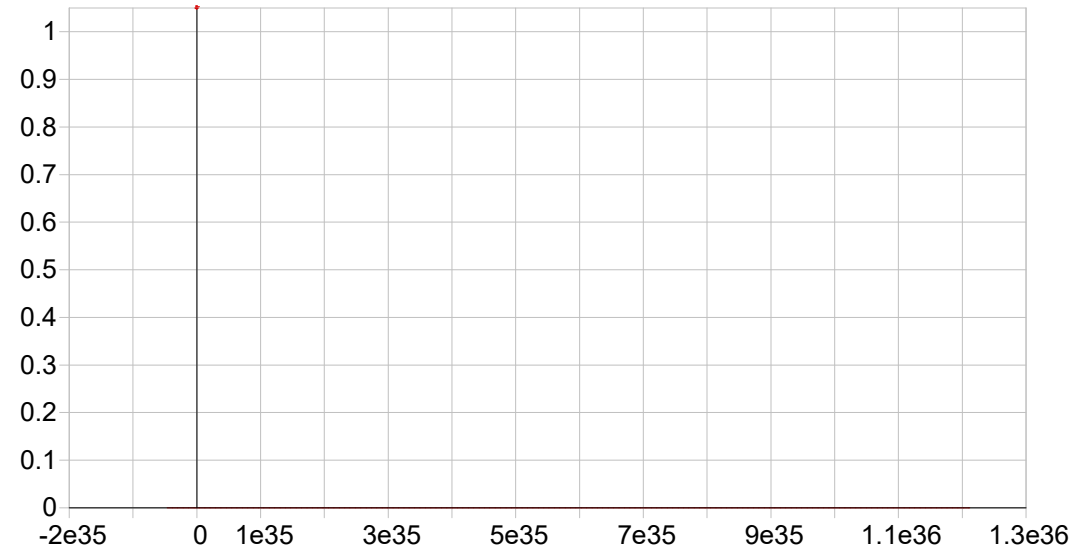
Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5



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

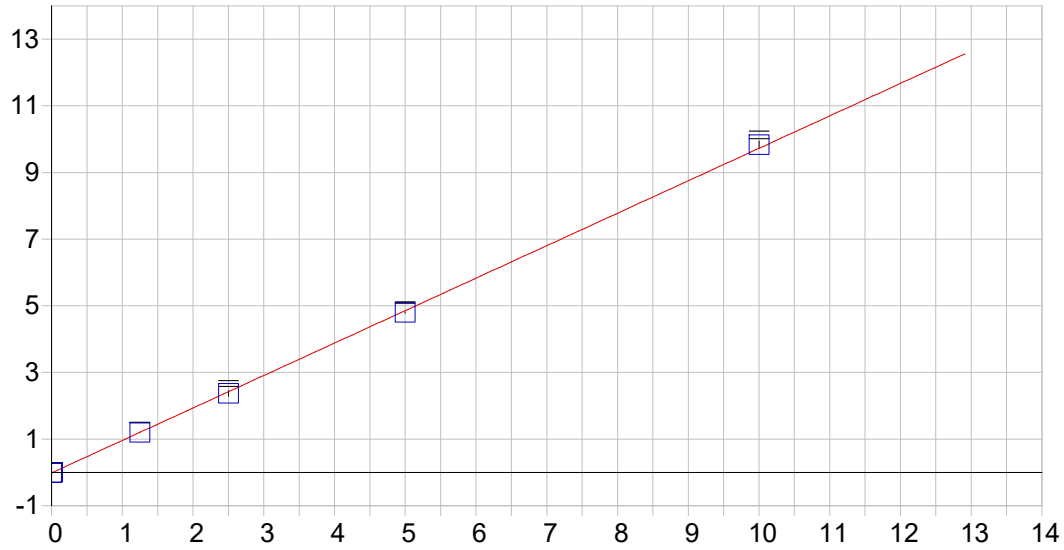


In 230.606 {446}*

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	

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:	12/17/2024 16:45:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.014322	Re-Slope:	1.000000
A1 (Gain):	0.974037	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999923	Status:	OK.
Std Error of Est:	0.000248		
Predicted MDL:	0.006724		
Predicted MQL:	0.022413		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.01432	.003	1
S5	10.000	10.111	.111	1.11	9.8344	.117	1
S4	5.0000	4.9422	-.058	-1.16	4.7995	.022	1
S3	2.5000	2.4519	-.048	-1.92	2.3739	.087	1
S2	1.2500	1.2442	-.006	-.468	1.1975	.008	1
S1	.01500	.01547	.000	3.15	.00075	.001	1

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: S0 Acquired: 12/17/2024 16:14:12 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) 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	-.27204	-.00022	.00053	-.00013	.00098	-.00445	.01624	-.00147
Stddev	.31985	.00028	.00041	.00025	.00010	.00374	.00734	.00180
%RSD	117.58	125.06	76.683	191.91	10.552	83.999	45.189	122.24
#1	.09144	.00008	.00077	.00011	.00101	-.00597	.01409	-.00085
#2	-.51051	-.00027	.00006	-.00011	.00086	-.00720	.02442	-.00007
#3	-.39705	-.00047	.00077	-.00040	.00106	-.00019	.01022	-.00351

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	.00077	.00738	.00004	-.00025	.00128	.00023	.00008	-.00178
Stddev	.00008	.00330	.00025	.00015	.00147	.00088	.00156	.00090
%RSD	9.9008	44.734	661.89	61.006	114.85	386.19	2028.3	50.689
#1	.00081	.00639	-.00022	-.00013	.00288	-.00070	.00114	-.00101
#2	.00082	.00469	.00028	-.00043	-.00003	.00033	.00080	-.00156
#3	.00068	.01107	.00006	-.00020	.00100	.00106	-.00171	-.00277

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	-.00061	-.00255	-.00933	-.00068	-.00094	.09573	-.00278	.00222
Stddev	.00050	.00014	.00556	.00206	.00031	.00402	.00007	.00282
%RSD	80.635	5.4515	59.573	300.54	32.607	4.2005	2.5599	126.89
#1	-.00104	-.00248	-.01574	-.00002	-.00104	.09131	-.00283	.00019
#2	-.00074	-.00271	-.00615	.00096	-.00119	.09916	-.00270	.00543
#3	-.00007	-.00246	-.00609	-.00299	-.00060	.09673	-.00282	.00103

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	.00040	.00013	.02429	.00015	.00056	-.00347	-.01432
Stddev	.00017	.00003	.00071	.00010	.00152	.00541	.00315
%RSD	43.552	19.222	2.9395	68.437	271.01	156.06	22.014
#1	.00031	.00010	.02412	.00022	.00105	.00008	-.01485
#2	.00060	.00015	.02368	.00003	-.00115	-.00969	-.01094
#3	.00029	.00014	.02508	.00019	.00178	-.00078	-.01718

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: S0 Acquired: 12/17/2024 16:14:12 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) 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	1854.8	22761.	1149.3	1564.2	2445.7
Stddev	1.8	42.	5.8	7.0	.4
%RSD	.09939	.18590	.50694	.44622	.01666
#1	1855.5	22715.	1142.9	1559.6	2446.1
#2	1852.7	22769.	1150.7	1560.8	2445.5
#3	1856.1	22798.	1154.3	1572.3	2445.4

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: S1 Acquired: 12/17/2024 16:18:21 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) 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	1.1797	.00110	.00243	.00182	.01030	.02134	.73739	.09818
Stddev	.5555	.00019	.00037	.00010	.00013	.00241	.00517	.00427
%RSD	47.083	17.080	15.104	5.4910	1.2456	11.296	.70171	4.3446
#1	1.0473	.00117	.00285	.00171	.01016	.02408	.73835	.09804
#2	1.7895	.00089	.00224	.00191	.01040	.01957	.74201	.09399
#3	.70252	.00125	.00220	.00184	.01036	.02037	.73180	.10252

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	.01448	.24884	.00230	.04283	.00459	.00235	.00579	.05226
Stddev	.00015	.00049	.00022	.00037	.00184	.00105	.00078	.00037
%RSD	1.0497	.19792	9.6325	.86148	40.068	44.470	13.464	.70830
#1	.01459	.24879	.00236	.04249	.00517	.00123	.00499	.05206
#2	.01454	.24837	.00205	.04279	.00253	.00253	.00655	.05203
#3	.01430	.24935	.00247	.04322	.00606	.00330	.00582	.05269

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	.02280	.00045	.03771	.00585	.00109	.22947	-.00201	.00193
Stddev	.00032	.00013	.00392	.00118	.00069	.00505	.00019	.00333
%RSD	1.4086	27.602	10.396	20.135	63.274	2.2018	9.2370	172.68
#1	.02245	.00059	.03500	.00461	.00031	.23378	-.00195	.00511
#2	.02286	.00034	.04221	.00599	.00134	.22391	-.00187	.00223
#3	.02309	.00043	.03594	.00695	.00162	.23072	-.00222	-.00154

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	.00752	.00396	.68827	.00118	.03706	1.2065	.00075
Stddev	.00018	.00006	.00439	.00004	.00060	.0001	.00121
%RSD	2.3431	1.4543	.63833	3.5314	1.6132	.01136	161.09
#1	.00770	.00390	.69332	.00123	.03656	1.2064	-.00030
#2	.00750	.00398	.68615	.00116	.03690	1.2065	.00048
#3	.00735	.00400	.68533	.00116	.03772	1.2067	.00206

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: S1 Acquired: 12/17/2024 16:18:21 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) 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	1853.6	22773.	1144.7	1574.5	2447.7
Stddev	6.6	80.	6.6	11.2	8.2
%RSD	.35671	.35134	.57602	.71346	.33588
#1	1861.1	22753.	1137.6	1566.8	2456.0
#2	1851.3	22705.	1145.9	1569.4	2447.6
#3	1848.5	22861.	1150.6	1587.4	2439.6

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: S2 Acquired: 12/17/2024 16:22:28 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) 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	Cd2144
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	175.11	.07111	1.3853	.07923	.21015	4.4371	8.6553	2.3349	1.7453
Stddev	.75	.00022	.0063	.00049	.00098	.0117	.0218	.0132	.0105
%RSD	.42564	.31595	.45553	.61516	.46717	.26308	.25216	.56522	.60178
#1	174.60	.07114	1.3859	.07971	.21080	4.4462	8.6721	2.3464	1.7498
#2	175.96	.07088	1.3787	.07874	.20902	4.4239	8.6307	2.3205	1.7333
#3	174.76	.07132	1.3912	.07923	.21062	4.4412	8.6633	2.3379	1.7528

Elem	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.9777	.79030	.51862	.56585	.83213	1.4651	.65585	.36475	.08295
Stddev	.0148	.00379	.00289	.00338	.00188	.0045	.00301	.00187	.00030
%RSD	.49690	.47988	.55694	.59729	.22557	.30915	.45838	.51221	.35896
#1	2.9943	.78785	.51955	.56514	.83347	1.4699	.65881	.36595	.08325
#2	2.9659	.78839	.51538	.56288	.82999	1.4644	.65593	.36259	.08266
#3	2.9729	.79467	.52092	.56953	.83294	1.4609	.65280	.36569	.08294

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.32331	.06009	.11981	1.0540	.07345	1.4189	.87242	.05218	3.4719
Stddev	.01050	.00160	.00153	.0061	.00059	.0080	.00305	.00037	.0159
%RSD	3.2466	2.6603	1.2753	.58060	.80888	.56551	.34906	.71617	.45657
#1	.31462	.06135	.11813	1.0552	.07300	1.4168	.87298	.05188	3.4785
#2	.32033	.05829	.12021	1.0474	.07323	1.4121	.86914	.05207	3.4539
#3	.33497	.06063	.12111	1.0595	.07412	1.4277	.87515	.05260	3.4834

Elem	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.15670	.45098	14.630	1.1975
Stddev	.00102	.00383	.036	.0076
%RSD	.65397	.84973	.24322	.63619
#1	.15699	.45531	14.660	1.2007
#2	.15556	.44960	14.591	1.2030
#3	.15755	.44803	14.640	1.1888

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: S2 Acquired: 12/17/2024 16:22:28 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) 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	1780.4	22439.	1143.5	1519.8	2271.0
Stddev	8.4	69.	3.3	5.2	14.0
%RSD	.47188	.30628	.28770	.34375	.61736
#1	1778.7	22508.	1139.8	1522.9	2269.5
#2	1789.4	22439.	1144.3	1522.8	2285.8
#3	1772.9	22371.	1146.2	1513.8	2257.9

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: S3 Acquired: 12/17/2024 16:26:22 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) 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	Cd2144
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	341.98	.13879	2.7773	.16029	.42471	8.6497	16.851	4.4996	3.4963
Stddev	1.66	.00086	.0142	.00043	.00241	.2778	.545	.1372	.0200
%RSD	.48415	.62051	.50977	.26733	.56713	3.2116	3.2350	3.0495	.57257
#1	341.21	.13854	2.7741	.16025	.42431	8.3416	16.248	4.3472	3.4905
#2	340.85	.13808	2.7650	.15989	.42253	8.8812	17.310	4.6132	3.4798
#3	343.88	.13975	2.7928	.16074	.42729	8.7262	16.996	4.5384	3.5186

Elem	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5.7606	1.5498	1.0267	1.1001	1.6110	2.8378	1.2757	.73351	.16573
Stddev	.1929	.0014	.0053	.0376	.0509	.0919	.0414	.00389	.00036
%RSD	3.3479	.09369	.51370	3.4180	3.1605	3.2396	3.2453	.53004	.21918
#1	5.5480	1.5482	1.0253	1.0577	1.5554	2.7365	1.2293	.73183	.16551
#2	5.9244	1.5509	1.0223	1.1293	1.6553	2.9160	1.3087	.73075	.16552
#3	5.8094	1.5504	1.0326	1.1134	1.6223	2.8610	1.2892	.73796	.16615

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.65081	.11991	.24143	1.9789	.15311	2.7577	1.7637	.10707	6.6213
Stddev	.02686	.00544	.00123	.0696	.00099	.0814	.0113	.00047	.2110
%RSD	4.1271	4.5404	.50751	3.5152	.64692	2.9536	.63930	.44102	3.1866
#1	.62309	.11433	.24002	1.9025	.15306	2.6677	1.7613	.10692	6.3866
#2	.65260	.12521	.24224	2.0386	.15214	2.8264	1.7538	.10669	6.7951
#3	.67672	.12019	.24203	1.9956	.15412	2.7789	1.7760	.10760	6.6823

Elem	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.31632	.88247	28.515	2.3739
Stddev	.00183	.02474	.940	.0872
%RSD	.57931	2.8035	3.2958	3.6742
#1	.31602	.85595	27.467	2.2735
#2	.31466	.90493	29.284	2.4309
#3	.31828	.88652	28.793	2.4174

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: S3 Acquired: 12/17/2024 16:26:22 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) 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	1704.2	22055.	1151.1	1467.4	2169.8
Stddev	6.3	18.	34.2	3.4	6.2
%RSD	.36958	.07966	2.9733	.23240	.28776
#1	1702.9	22040.	1189.5	1463.6	2169.4
#2	1711.0	22075.	1123.6	1470.2	2176.3
#3	1698.6	22052.	1140.4	1468.5	2163.8

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: S4 Acquired: 12/17/2024 16:30:09 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) 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	Cd2144
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	673.22	.27843	5.6639	.33081	.89536	17.571	34.375	8.8371	7.0874
Stddev	2.49	.00112	.0101	.00115	.00322	.015	.033	.0309	.0071
%RSD	.36989	.40221	.17843	.34694	.35951	.08288	.09739	.34952	.10024
#1	674.13	.27727	5.6589	.33087	.89382	17.576	34.338	8.8148	7.0877
#2	670.40	.27850	5.6574	.32964	.89319	17.555	34.403	8.8241	7.0802
#3	675.13	.27951	5.6756	.33193	.89906	17.583	34.383	8.8723	7.0944

Elem	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	11.621	3.1037	2.0531	2.1998	3.2396	5.7361	2.5771	1.4830	.33914
Stddev	.018	.0033	.0046	.0091	.0078	.0107	.0087	.0026	.00058
%RSD	.15077	.10682	.22303	.41571	.24015	.18613	.33828	.17616	.17181
#1	11.614	3.1063	2.0523	2.1901	3.2321	5.7329	2.5734	1.4820	.33939
#2	11.609	3.1000	2.0490	2.2083	3.2391	5.7480	2.5871	1.4810	.33847
#3	11.641	3.1048	2.0581	2.2008	3.2477	5.7274	2.5710	1.4860	.33956

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.3309	.24708	.51936	3.9882	.31964	5.3972	3.7150	.22309	12.931
Stddev	.0077	.00139	.00546	.0028	.00049	.0355	.0125	.00010	.073
%RSD	.58263	.56154	1.0521	.07100	.15326	.65700	.33581	.04326	.56116
#1	1.3279	.24863	.52187	3.9849	.31911	5.3576	3.7094	.22304	12.870
#2	1.3250	.24664	.52312	3.9897	.31974	5.4080	3.7063	.22304	12.910
#3	1.3397	.24596	.51309	3.9899	.32007	5.4260	3.7293	.22321	13.011

Elem	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.64769	1.8007	57.787	4.7995
Stddev	.00172	.0035	.174	.0216
%RSD	.26568	.19617	.30044	.45081
#1	.64637	1.7968	57.595	4.7746
#2	.64707	1.8037	57.934	4.8112
#3	.64963	1.8016	57.831	4.8128

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: S4 Acquired: 12/17/2024 16:30:09 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) 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	1578.2	21406.	1148.9	1383.0	2062.2
Stddev	1.4	40.	4.3	11.7	4.0
%RSD	.08621	.18716	.37818	.84915	.19326
#1	1579.7	21367.	1153.0	1376.4	2061.5
#2	1577.0	21406.	1149.3	1376.0	2058.6
#3	1578.0	21447.	1144.3	1396.6	2066.5

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: S5 Acquired: 12/17/2024 16:33:55 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) 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	Cd2144
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1315.4	.55998	11.621	.73790	2.0469	35.984	70.469	17.837	14.368
Stddev	.8	.00161	.039	.00349	.0126	.220	.482	.198	.054
%RSD	.06143	.28827	.33357	.47356	.61390	.61261	.68414	1.1122	.37527
#1	1316.4	.56108	11.642	.73894	2.0475	35.955	70.476	17.774	14.407
#2	1314.9	.56073	11.646	.74076	2.0592	36.217	70.948	18.059	14.392
#3	1315.1	.55813	11.577	.73401	2.0341	35.779	69.984	17.677	14.307

Elem	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	23.459	6.2073	4.1638	4.4732	6.4924	11.452	5.2149	3.0193	.70430
Stddev	.127	.0086	.0109	.0428	.0512	.090	.0422	.0124	.00123
%RSD	.54145	.13866	.26062	.95699	.78839	.78186	.80997	.41021	.17428
#1	23.411	6.2172	4.1728	4.4597	6.4843	11.434	5.1978	3.0256	.70330
#2	23.603	6.2028	4.1670	4.5211	6.5471	11.550	5.2630	3.0272	.70393
#3	23.363	6.2018	4.1518	4.4388	6.4457	11.373	5.1839	3.0050	.70567

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.7504	.49967	1.1525	8.2342	.66907	10.658	8.4003	.46783	25.717
Stddev	.0319	.00388	.0046	.0416	.00181	.130	.0378	.00169	.315
%RSD	1.1611	.77551	.40143	.50481	.27039	1.2226	.44980	.36033	1.2264
#1	2.7604	.50034	1.1528	8.2282	.66937	10.644	8.4150	.46810	25.718
#2	2.7762	.50317	1.1477	8.2785	.67071	10.794	8.4285	.46937	26.031
#3	2.7147	.49551	1.1569	8.1961	.66713	10.535	8.3574	.46603	25.400

Elem	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.3282	3.6501	117.88	9.8344
Stddev	.0051	.0255	1.05	.1166
%RSD	.38652	.69829	.88683	1.1860
#1	1.3325	3.6597	117.75	9.8148
#2	1.3296	3.6693	118.98	9.9596
#3	1.3225	3.6211	116.90	9.7289

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: S5 Acquired: 12/17/2024 16:33:55 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) 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	1350.9	20513.	1124.1	1226.9	1927.3
Stddev	4.6	106.	8.0	6.0	5.4
%RSD	.34392	.51858	.71333	.48674	.27921
#1	1349.1	20540.	1129.4	1229.4	1923.0
#2	1347.4	20604.	1114.8	1231.2	1925.5
#3	1356.1	20396.	1127.9	1220.1	1933.3

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: S6 Acquired: 12/17/2024 16:37:42 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) 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	97.098	38.255	17.398	8.5536	7.6691
Stddev	.317	.030	.050	.0310	.0229
%RSD	.32634	.07954	.28541	.36272	.29863
#1	97.341	38.263	17.443	8.5754	7.6695
#2	96.739	38.221	17.345	8.5181	7.6460
#3	97.212	38.280	17.406	8.5672	7.6918

Int. Std.	Y_3710
Units	Cts/S
Avg	1099.8
Stddev	8.7
%RSD	.79507
#1	1090.5
#2	1107.9
#3	1100.9

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: ICV006 Acquired: 12/17/2024 17:27:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: ICV006 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.066653	1.033561	.9693345	.9247468	.9352598	2.422658
Stddev	.005050	.007987	.0028207	.0052495	.0023382	.032483
%RSD	.4734765	.7727700	.2909888	.5676644	.2500047	1.340816
#1	1.061206	1.024407	.9661248	.9280829	.9338251	2.416817
#2	1.067571	1.037161	.9704606	.9186958	.9339964	2.393491
#3	1.071180	1.039113	.9714182	.9274615	.9379579	2.457665

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5217057	.5298556	.4981011	10.16350	.5525504	.5044319
Stddev	.0013227	.0042354	.0014968	.05657	.0017989	.0020494
%RSD	.2535403	.7993571	.3004976	.5565854	.3255546	.4062831
#1	.5217844	.5329199	.4967187	10.15428	.5544086	.5027827
#2	.5203453	.5250225	.4978939	10.22411	.5524251	.5037869
#3	.5229873	.5316244	.4996907	10.11210	.5508174	.5067263

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5078443	10.31791	.5284634	6.009178	.5113734	.2446435
Stddev	.0070962	.06125	.0027536	.057573	.0027259	.0007728
%RSD	1.397325	.5935964	.5210513	.9580866	.5330474	.3158725
#1	.5010980	10.24756	.5316272	6.074529	.5097057	.2453776
#2	.5071898	10.35938	.5266078	5.987064	.5098954	.2447159
#3	.5152451	10.34678	.5271553	5.965940	.5145190	.2438371

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.45155	.5216188	.9569378	9.673049	F .0008230	F .0001626
Stddev	.27005	.0045417	.0043304	.050147	.0012624	.0028694
%RSD	2.583793	.8706867	.4525314	.5184182	153.3934	1764.804
#1	10.19568	.5163892	.9614127	9.726943	.0022757	-.002545
#2	10.73383	.5245735	.9566327	9.664441	-.000008	-.000137
#3	10.42513	.5238936	.9527680	9.627764	.000201	.003170

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: ICV006 Acquired: 12/17/2024 17:27:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: ICV006 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.000200	F .0039404	F -.000332	F .0005517	F .0016857	F -.009159
Stddev	.000283	.0051958	.000448	.0011006	.0023675	.000195
%RSD	141.7605	131.8614	135.0630	199.5030	140.4491	2.126031
#1	.000127	.0026876	-.000716	-.000031	-.000200	-.009096
#2	-.000366	-.000515	-.000440	-.000135	.004343	-.009377
#3	-.000361	.009648	.000160	.001821	.000914	-.009003

Elem	Li6707
Units	ppm
Avg	F -.013262
Stddev	.002768
%RSD	20.87424
#1	-.010164
#2	-.015492
#3	-.014131

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1862.590	23018.20	1168.965	1583.134	2443.866
Stddev	4.645	126.69	4.322	9.204	5.191
%RSD	.2493979	.5503861	.3697226	.5813542	.2124137
#1	1857.703	23059.17	1164.047	1581.386	2438.659
#2	1863.117	22876.09	1172.157	1574.930	2443.897
#3	1866.949	23119.33	1170.692	1593.087	2449.041

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: ICB006 Acquired: 12/17/2024 17:33:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: ICB006 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032378	.0006714	-.000832	-.002176	.0004048	.0076501	.0001624
Stddev	.0032370	.0047888	.004412	.002265	.0019224	.0016541	.0010780
%RSD	99.97497	713.2403	530.2366	104.1094	474.8758	21.62197	664.0024
#1	.0068845	.0050144	.001279	-.000029	-.000655	.0057851	.0012916
#2	.0021244	.0014643	.002128	-.001955	-.000754	.0082259	-.000856
#3	.0007044	-.004464	-.005903	-.004544	.002624	.0089394	.000051

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000974	-.000165	-.031562	.0004008	-.000312	.0085151	.0057792
Stddev	.0000340	.000016	.036780	.0007821	.000373	.0100041	.0069599
%RSD	34.87558	9.649571	116.5344	195.1558	119.3365	117.4864	120.4293
#1	.0001034	-.000183	-.073034	-.000372	-.000429	.0123057	.0080468
#2	.0001280	-.000154	-.002901	.001192	.000105	-.002830	.0113225
#3	.0000609	-.000157	-.018750	.000382	-.000613	.016070	-.002032

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000954	-.046675	.0003737	-.000141	-.385477	.0028283	.0139823
Stddev	.001648	.059739	.0008505	.000351	.771846	.0035606	.0062087
%RSD	172.7819	127.9873	227.5719	247.9177	200.2315	125.8932	44.40421
#1	-.000423	-.064854	.0012917	-.000480	.505367	-.001204	.0197435
#2	.000364	-.095213	.0002167	-.000165	-.807582	.004149	.0074065
#3	-.002801	.020041	-.000387	.000220	-.854215	.005540	.0147968

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.159762	.0000448	.0021371	-.000347	-.002760	.0003360	-.000746
Stddev	.221065	.0017407	.0030478	.000445	.002940	.0011207	.000677
%RSD	138.3716	3881.995	142.6146	128.2602	106.5400	333.5537	90.68411
#1	-.351726	-.001693	.0055960	-.000819	.000542	.0008941	-.001187
#2	.081932	.000040	.0009700	-.000290	-.005096	-.000954	.000033
#3	-.209492	.001788	-.000155	.000067	-.003726	.001068	-.001084

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: ICB006 Acquired: 12/17/2024 17:33:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: ICB006 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.006819	.0003908	-.006746
Stddev	.001941	.0001308	.005152
%RSD	28.46372	33.47672	76.37543
#1	-.004678	.0005055	-.011112
#2	-.007317	.0004187	-.008064
#3	-.008463	.0002483	-.001063

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1845.451	22554.80	1139.164	1552.590	2421.916
Stddev	2.312	29.42	50.137	3.982	1.810
%RSD	.1252804	.1304425	4.401172	.2564637	.0747447
#1	1845.848	22564.66	1176.787	1549.850	2421.867
#2	1842.967	22578.03	1158.458	1557.158	2420.131
#3	1847.540	22521.72	1082.247	1550.763	2423.750

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: ICSA006 Acquired: 12/17/2024 17:49:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: ICSA006 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023235	.0005709	-.006841	.0028161	.0112881	238.4311
Stddev	.0001856	.0061017	.003252	.0067293	.0034190	.8499
%RSD	7.989089	1068.768	47.53301	238.9604	30.28829	.3564668
#1	.0025311	-.002312	-.004645	.0045614	.0148148	237.6977
#2	.0022659	.007580	-.010576	.0085008	.0110613	238.2330
#3	.0021735	-.003555	-.005301	-.004614	.0079881	239.3625

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0059995	.0024027	.0005721	248.4812	.0527608	.0461092
Stddev	.0003445	.0001006	.0000804	.6723	.0008023	.0011256
%RSD	5.741516	4.185536	14.05288	.2705582	1.520572	2.441150
#1	.0062724	.0023122	.0006568	248.3690	.0525233	.0473894
#2	.0056125	.0025109	.0004970	247.8721	.0521040	.0456634
#3	.0061137	.0023849	.0005624	249.2026	.0536549	.0452748

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.012684	101.3737	.0064698	258.9743	.0049815	.0003034
Stddev	.002066	.2940	.0027719	.7057	.0010188	.0010897
%RSD	16.28580	.2899671	42.84335	.2724837	20.45148	359.1692
#1	-.015036	101.0810	.0041156	258.3590	.0057334	.0002970
#2	-.011853	101.6689	.0057690	258.8193	.0053891	.0013963
#3	-.011164	101.3714	.0095248	259.7446	.0038220	-.000783

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.096237	.0118933	-.004525	-1.14764	.0057156	F -.023364
Stddev	.659788	.0189916	.014845	.21672	.0040970	.000761
%RSD	60.18664	159.6830	328.0519	18.88424	71.68093	3.258932
#1	.349955	-.007085	-.018685	-1.29398	.0076731	-.023500
#2	1.336643	.030898	.010921	-.89867	.0084668	-.024048
#3	1.602111	.011868	-.005812	-1.25027	.0010071	-.022543

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: ICSA006 Acquired: 12/17/2024 17:49:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: ICSA006 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006561	.0219448	-.004044	F .0098063	-.007273	.0063950
Stddev	.0002063	.0125645	.001103	.0008532	.003990	.0004384
%RSD	31.44754	57.25490	27.26513	8.700624	54.85207	6.854557
#1	.0007584	.0160642	-.005313	.0098215	-.006903	.0066413
#2	.0004186	.0133990	-.003314	.0106518	-.003482	.0066548
#3	.0007914	.0363712	-.003506	.0089456	-.011435	.0058889

Elem	Li6707
Units	ppm
Avg	.0075784
Stddev	.0052946
%RSD	69.86534
#1	.0015732
#2	.0095877
#3	.0115743

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1736.858	21268.35	1132.885	1480.639	2114.694
Stddev	30.159	167.50	4.706	12.381	36.740
%RSD	1.736395	.7875551	.4153575	.8361633	1.737367
#1	1702.290	21155.74	1132.353	1470.296	2072.517
#2	1757.794	21460.83	1137.834	1494.357	2139.741
#3	1750.491	21188.47	1128.469	1477.263	2131.822

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: ICSAB006 Acquired: 12/17/2024 17:53:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: ICSAB006 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0954278	.1013072	.0430470	.0577132	.5341267	238.2769
Stddev	.0054071	.0024774	.0012098	.0069625	.0035293	.5292
%RSD	5.666150	2.445452	2.810476	12.06405	.6607634	.2220891
#1	.0962587	.0989331	.0422624	.0631841	.5305332	238.4141
#2	.1003714	.1038765	.0424382	.0498759	.5342586	238.7239
#3	.0896534	.1011121	.0444403	.0600797	.5375882	237.6926

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5327715	.5337577	1.016799	248.0945	.5971879	.5420104
Stddev	.0024027	.0048261	.004568	.8160	.0026134	.0024932
%RSD	.4509760	.9041648	.4492617	.3289075	.4376153	.4599929
#1	.5338568	.5374399	1.015131	248.1182	.5954331	.5414467
#2	.5344400	.5355390	1.013299	248.8984	.5959393	.5398473
#3	.5300176	.5282942	1.021966	247.2669	.6001914	.5447372

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4800709	101.3314	.5268376	258.5704	1.019894	.1872891
Stddev	.0147283	.0980	.0047502	.9435	.003264	.0002808
%RSD	3.067949	.0967148	.9016388	.3648798	.3200494	.1499390
#1	.4886866	101.4168	.5235859	259.0849	1.018285	.1873140
#2	.4884616	101.3529	.5322889	259.1448	1.017746	.1869966
#3	.4630646	101.2244	.5246380	257.4816	1.023650	.1875566

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3241342	.5275603	.9619012	-1.50587	.0053764	F -.022909
Stddev	.5609709	.0050681	.0304264	.10905	.0042559	.002030
%RSD	173.0675	.9606610	3.163147	7.241891	79.15879	8.860185
#1	.4322306	.5332519	.9268965	-1.63032	.0099958	-.020601
#2	-.283019	.5235358	.9768029	-1.46029	.0016147	-.023709
#3	.823191	.5258930	.9820042	-1.42701	.0045187	-.024417

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: ICSAB006 Acquired: 12/17/2024 17:53:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: ICSAB006 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011017	.0215198	-.005197	F .0117755	-.009712	.0059552
Stddev	.0005598	.0083903	.000340	.0038240	.006898	.0003370
%RSD	50.80868	38.98882	6.551467	32.47417	71.03122	5.658554
#1	.0017411	.0284818	-.005147	.0151521	-.016614	.0057475
#2	.0007000	.0122040	-.005559	.0076231	-.009704	.0063440
#3	.0008640	.0238737	-.004884	.0125513	-.002817	.0057740

Elem	Li6707
Units	ppm
Avg	.0099782
Stddev	.0036160
%RSD	36.23884
#1	.0058368
#2	.0125095
#3	.0115882

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1767.717	21494.59	1143.077	1491.031	2155.223
Stddev	4.841	162.88	4.054	12.149	7.940
%RSD	.2738667	.7577495	.3546236	.8148081	.3684296
#1	1765.528	21596.65	1138.576	1499.059	2153.649
#2	1773.266	21580.37	1144.214	1496.981	2163.833
#3	1764.356	21306.75	1146.441	1477.054	2148.188

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: CCV049 Acquired: 12/17/2024 17:57:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: CCV049 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.075386	4.790864	24.57051	5.075229	5.062882	396.5640	9.963479
Stddev	.005558	.018922	.02907	.022723	.012396	3.6656	.095783
%RSD	.1095138	.3949575	.1183263	.4477191	.2448482	.9243474	.9613426
#1	5.068969	4.812705	24.54584	5.060231	5.056392	400.6334	10.07000
#2	5.078470	4.780453	24.56313	5.064084	5.055079	393.5209	9.88445
#3	5.078718	4.779434	24.60256	5.101373	5.077176	395.5376	9.93598

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5062800	2.479006	398.1458	15.37006	2.496535	14.78488	405.3491
Stddev	.0064297	.004334	3.0206	.01517	.002375	.20237	4.5825
%RSD	1.269994	.1748447	.7586688	.0986713	.0951490	1.368746	1.130518
#1	.5136508	2.475458	401.5599	15.36362	2.497196	15.01459	410.3068
#2	.5018229	2.477722	395.8207	15.35918	2.493899	14.63289	401.2685
#3	.5033664	2.483837	397.0569	15.38739	2.498509	14.70717	404.4718

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.23478	400.8582	2.501000	1.279276	398.4080	2.488070	15.95724
Stddev	.14916	4.1255	.003511	.000889	5.0710	.044987	.03088
%RSD	.9790990	1.029173	.1403945	.0694650	1.272827	1.808093	.1935065
#1	15.39424	405.2486	2.497281	1.280010	404.1404	2.539283	15.93355
#2	15.09866	397.0620	2.501460	1.278288	394.5076	2.454931	15.94601
#3	15.21144	400.2641	2.504259	1.279531	396.5758	2.469997	15.99216

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	151.4915	4.958210	4.817266	4.693916	4.970941	4.903321	4.993186
Stddev	1.2323	.008750	.069150	.011200	.004384	.064591	.007887
%RSD	.8134472	.1764840	1.435461	.2386143	.0881876	1.317293	.1579529
#1	152.7493	4.958094	4.896823	4.686666	4.968036	4.977449	4.993879
#2	150.2864	4.949519	4.771594	4.688266	4.968803	4.859134	4.984975
#3	151.4386	4.967019	4.783382	4.706816	4.975983	4.873379	5.000703

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: CCV049 Acquired: 12/17/2024 17:57:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: CCV049 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	4.947508	4.729706	4.986810
Stddev	.054133	.055316	.067180
%RSD	1.094155	1.169537	1.347148
#1	5.005332	4.789101	5.061920
#2	4.898036	4.679662	4.932462
#3	4.939156	4.720354	4.966048

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1529.069	20637.06	1131.677	1336.949	1972.894
Stddev	3.862	30.03	13.464	1.234	2.201
%RSD	.2525680	.1455251	1.189780	.0923040	.1115787
#1	1530.434	20662.71	1116.343	1337.383	1971.702
#2	1532.064	20644.45	1141.570	1337.907	1975.435
#3	1524.710	20604.02	1137.117	1335.556	1971.546

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: CCB049 Acquired: 12/17/2024 18:00:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: CCB049 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0036968	.0016954	.0004696	-.002228	.0011213	.0145113	-.001175
Stddev	.0030971	.0042541	.0010261	.006348	.0019582	.0119442	.002084
%RSD	83.77866	250.9250	218.5333	284.9723	174.6447	82.30983	177.2749
#1	.0058945	.0058160	-.000087	-.002862	.0008822	.0282615	-.001657
#2	.0001546	.0019509	.001654	.004414	.0031881	.0067078	-.002976
#3	.0050413	-.002681	-.000158	-.008235	-.000706	.0085645	.001107

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000447	-.000035	-.012840	.0006700	-.000471	.0103410	.0056633
Stddev	.0000450	.000046	.035016	.0002468	.000488	.0056025	.0179999
%RSD	100.7267	131.8362	272.7172	36.83021	103.6221	54.17774	317.8327
#1	.0000693	.000018	-.037092	.0009117	-.001001	.0043261	-.009570
#2	-.000007	-.000061	.027304	.0004184	-.000038	.0112860	.025526
#3	.000072	-.000061	-.028731	.0006800	-.000375	.0154110	.001034

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000348	-.053798	.0003548	.0004430	-.180279	.0042070	.0014375
Stddev	.003245	.134103	.0011519	.0004114	1.081393	.0113769	.0152801
%RSD	933.7166	249.2727	324.6432	92.86744	599.8423	270.4263	1062.965
#1	-.003306	-.148748	.0015194	.0005493	1.049437	-.007770	.0145974
#2	.003123	-.112256	-.000784	.0007909	-.607365	.014870	-.015321
#3	-.000859	.099611	.000329	-.000011	-.982910	.005520	.005036

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.042201	.0026343	.0134856	-.000327	.0027188	.0006943	.0010354
Stddev	.240997	.0008904	.0013810	.000460	.0029640	.0007668	.0015344
%RSD	571.0715	33.80080	10.24032	140.8082	109.0167	110.4475	148.1955
#1	-.085123	.0025690	.0130972	-.000473	.0061230	-.000191	.0027332
#2	.217373	.0035555	.0150192	-.000696	.0013233	.001125	.0006252
#3	-.258853	.0017783	.0123405	.000189	.0007102	.001149	-.000252

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: CCB049 Acquired: 12/17/2024 18:00:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: CCB049 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.001556	-.000210	.0019079
Stddev	.002349	.000137	.0060149
%RSD	151.0041	65.52601	315.2741
#1	-.004259	-.000367	-.003832
#2	-.000395	-.000151	.001391
#3	-.000013	-.000111	.008164

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1858.726	22867.04	1184.797	1583.684	2447.848
Stddev	4.023	32.22	7.311	6.395	4.828
%RSD	.2164610	.1409217	.6170696	.4037739	.1972327
#1	1858.941	22831.61	1180.040	1585.553	2448.664
#2	1854.600	22894.60	1181.135	1588.936	2442.664
#3	1862.638	22874.92	1193.215	1576.563	2452.216

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: PB165489BL Acquired: 12/17/2024 18:05:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: PBS489 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013602	.0058289	-.001241	-.000459	-.001628	.0219019	-.001083
Stddev	.0061738	.0029101	.001090	.004774	.001262	.0204892	.001880
%RSD	453.8746	49.92587	87.80966	1039.104	77.48718	93.54984	173.5513
#1	.0053055	.0079150	-.001906	-.005921	-.002159	.0402434	-.002272
#2	.0045299	.0070672	-.001833	.001621	-.002539	.0256733	.001084
#3	-.005755	.0025044	.000017	.002922	-.000188	-.000211	-.002062

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000013	.0000296	-.042819	-.000279	.0003843	.0015667	.0313641
Stddev	.000120	.0001107	.047285	.000818	.0002398	.0028632	.0551654
%RSD	942.0258	373.5678	110.4319	293.1188	62.37969	182.7576	175.8872
#1	.000120	.0001575	-.007151	.000402	.0002257	-.000437	.0305289
#2	-.000043	-.000036	-.024850	-.000053	.0006601	.000291	.0869423
#3	-.000115	-.000033	-.096454	-.001187	.0002672	.004846	-.023379

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001077	.0781878	.0004441	-.000216	.5652930	.0047110	.0247967
Stddev	.002403	.0489125	.0007808	.000563	.6562865	.0040982	.0119054
%RSD	223.1607	62.55768	175.8112	260.2087	116.0967	86.99205	48.01213
#1	.001677	.0639045	-.000142	-.000534	1.188663	.0087941	.0135565
#2	-.002744	.0380069	.000143	.000434	-.119580	.0005978	.0372711
#3	-.002163	.1326519	.001331	-.000548	.626796	.0047412	.0235624

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.505401	-.000513	.0029516	-.000210	-.003126	-.000775	-.000076
Stddev	.112037	.000757	.0012949	.000109	.002837	.001068	.001755
%RSD	22.16786	147.7575	43.87022	52.02711	90.75213	137.8364	2317.508
#1	-.515262	-.000611	.0015343	-.000335	-.002281	.000396	-.001740
#2	-.612181	.000289	.0040728	-.000130	-.006290	-.001025	-.000247
#3	-.388760	-.001216	.0032478	-.000166	-.000808	-.001696	.001759

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: PB165489BL Acquired: 12/17/2024 18:05:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: PBS489 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0032152	-.000170	-.003563
Stddev	.0033615	.000150	.010679
%RSD	104.5473	88.45006	299.6855
#1	.0041941	-.000098	.002106
#2	-.000527	-.000069	.003085
#3	.005979	-.000343	-.015881

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1856.879	22417.79	1158.232	1542.157	2449.156
Stddev	1.627	476.16	8.808	31.149	2.934
%RSD	.0876423	2.124030	.7604676	2.019819	.1197859
#1	1856.766	22646.79	1149.549	1557.524	2452.156
#2	1858.560	22736.19	1157.987	1562.637	2449.017
#3	1855.311	21870.40	1167.160	1506.311	2446.294

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: PB165489BS Acquired: 12/17/2024 18:09:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: LCS489 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0204050	.0513227	.0165043	.0526960	.0959619	.4045759
Stddev	.0031937	.0040363	.0013167	.0015818	.0044033	.0322650
%RSD	15.65146	7.864584	7.978105	3.001703	4.588634	7.975017
#1	.0219585	.0555759	.0178106	.0529489	.0970874	.4372325
#2	.0167318	.0475455	.0151774	.0510030	.0996932	.3727173
#3	.0225247	.0508466	.0165251	.0541361	.0911050	.4037779

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3915910	.0101208	.0092781	9.778839	.0211766	.0977233
Stddev	.0025375	.0000985	.0001910	.055286	.0009090	.0021508
%RSD	.6480066	.9733179	2.058910	.5653643	4.292396	2.200931
#1	.3935627	.0100561	.0093574	9.816941	.0220231	.0993214
#2	.3924823	.0100721	.0094167	9.715429	.0202159	.0985707
#3	.3887281	.0102342	.0090602	9.804146	.0212907	.0952779

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0581006	.1576658	.0298585	9.861370	.0742361	.0197509
Stddev	.0111720	.0358084	.0013791	.189298	.0011845	.0002916
%RSD	19.22876	22.71156	4.618838	1.919591	1.595579	1.476501
#1	.0698256	.1867870	.0282801	10.07238	.0752480	.0200092
#2	.0568971	.1176846	.0304650	9.80528	.0745271	.0194347
#3	.0475790	.1685258	.0308304	9.70646	.0729333	.0198089

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.33261	.1112014	.1316775	8.662114	.0165189	F .0031706
Stddev	.54791	.0107652	.0126381	.323293	.0015667	.0034311
%RSD	5.302720	9.680789	9.597766	3.732265	9.484528	108.2183
#1	9.75162	.0991748	.1444741	9.026050	.0171544	-.000531
#2	10.84000	.1144929	.1313543	8.408165	.0147342	.003798
#3	10.40622	.1199366	.1192041	8.552127	.0176680	.006245

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: PB165489BS Acquired: 12/17/2024 18:09:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: LCS489 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0171214	.1655081	F .4843181	.0121450	.1876171	.2013071
Stddev	.0005911	.0053882	.0019474	.0003911	.0023672	.0004124
%RSD	3.452480	3.255579	.4020816	3.220555	1.261697	.2048347
#1	.0171751	.1685140	.4858093	.0125084	.1894238	.2016209
#2	.0176838	.1687228	.4850300	.0117310	.1849374	.2014603
#3	.0165053	.1592874	.4821149	.0121958	.1884902	.2008401

Elem	Li6707
Units	ppm
Avg	F .0198308
Stddev	.0060906
%RSD	30.71268
#1	.0154688
#2	.0267893
#3	.0172343

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1877.713	22804.39	1168.191	1567.284	2470.805
Stddev	40.184	52.03	1.823	7.807	56.448
%RSD	2.140067	.2281443	.1560930	.4981219	2.284594
#1	1852.658	22776.93	1167.108	1560.215	2435.345
#2	1856.419	22771.84	1167.168	1565.974	2441.171
#3	1924.064	22864.39	1170.296	1575.663	2535.899

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: PB165495BL Acquired: 12/17/2024 18:13:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS495 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007839	-.001012	-.003319	-.003604	-.000536	.0015231	.0006771
Stddev	.0003902	.002885	.001807	.001557	.002833	.0174638	.0011782
%RSD	49.78005	285.1220	54.42611	43.20574	528.3924	1146.580	174.0128
#1	.0004736	.000335	-.004187	-.001832	-.002718	.0096292	.0020320
#2	.0006561	-.004324	-.001243	-.004224	-.001557	.0134608	-.000106
#3	.0012221	.000953	-.004529	-.004755	.002666	-.018521	.000105

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000001	-.000032	-.001946	.0005699	.0001967	.0163889	-.004591
Stddev	.0000323	.000173	.117381	.0005619	.0002384	.0124806	.032644
%RSD	28704.80	539.9508	6033.296	98.60003	121.1942	76.15266	711.0785
#1	.0000264	.000126	.013551	.0005299	.0001072	.0022428	-.000734
#2	-.000036	-.000217	-.126305	.0011507	.0004670	.0210785	-.038991
#3	.000010	-.000005	.106917	.0000290	.0000161	.0258453	.025953

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002141	-.071190	.0002267	.0005675	.2014499	.0134703	.0380510
Stddev	.001969	.028736	.0001501	.0004780	1.145457	.0100230	.0096832
%RSD	91.99268	40.36554	66.21048	84.21959	568.6061	74.40843	25.44807
#1	-.001205	-.103976	.0001424	.0000267	1.214761	.0249728	.0425683
#2	-.000814	-.059217	.0003999	.0009333	.430982	.0088288	.0446502
#3	-.004403	-.050375	.0001376	.0007425	-1.04139	.0066093	.0269346

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.683549	-.000518	.0019957	-.000541	.0008007	-.000755	-.000225
Stddev	.113794	.000589	.0022013	.000425	.0059731	.001133	.001349
%RSD	16.64752	113.8636	110.3047	78.67986	745.9906	150.0965	599.2373
#1	-.613979	-.000085	.0005910	-.000917	.0056537	-.000219	-.001783
#2	-.621799	-.000278	.0045327	-.000627	-.005870	.000011	.000524
#3	-.814870	-.001189	.0008633	-.000079	.002618	-.002057	.000583

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: PB165495BL Acquired: 12/17/2024 18:13:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS495 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.003929	.0000136	-.003835
Stddev	.000923	.0001693	.007389
%RSD	23.50171	1247.404	192.6809
#1	-.002873	.0000015	-.006036
#2	-.004331	.0001886	-.009874
#3	-.004584	-.000149	.004405

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1858.772	22805.14	1171.979	1571.920	2441.913
Stddev	8.479	72.47	3.626	4.462	14.500
%RSD	.4561685	.3177730	.3094295	.2838856	.5937979
#1	1863.327	22733.84	1173.462	1566.782	2453.909
#2	1864.000	22802.85	1174.630	1574.153	2446.030
#3	1848.989	22878.72	1167.847	1574.825	2425.800

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: PB165495BS Acquired: 12/17/2024 18:17:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS495 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0225974	.0609593	.0160896	.0555014	.1001819	.4049408
Stddev	.0041368	.0035584	.0016503	.0018347	.0022130	.0057678
%RSD	18.30676	5.837365	10.25675	3.305704	2.209034	1.424344
#1	.0261031	.0586539	.0151557	.0574872	.1026133	.4089879
#2	.0236544	.0650575	.0151181	.0538692	.0982852	.3983365
#3	.0180346	.0591664	.0179951	.0551479	.0996473	.4074979

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4028602	.0104101	.0096930	10.08740	.0215497	.1025247
Stddev	.0019891	.0001370	.0000569	.00994	.0007864	.0003986
%RSD	.4937338	1.315800	.5869969	.0985625	3.649205	.3888277
#1	.4050598	.0104922	.0096534	10.09754	.0210861	.1028227
#2	.4011881	.0104861	.0097582	10.07767	.0224577	.1020719
#3	.4023325	.0102519	.0096673	10.08698	.0211053	.1026796

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0575450	.1811266	.0325766	10.10365	.0782023	.0200115
Stddev	.0075423	.0200696	.0017197	.19530	.0006009	.0012940
%RSD	13.10676	11.08045	5.278821	1.932957	.7683558	6.466443
#1	.0645178	.1582337	.0306923	10.32891	.0787073	.0214760
#2	.0495396	.1894546	.0340611	10.00026	.0775377	.0195361
#3	.0585775	.1956916	.0329765	9.98177	.0783618	.0190224

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.53750	.1040812	.1429960	8.701468	.0163199	F .0021026
Stddev	.51959	.0063379	.0355807	.211050	.0029183	.0016648
%RSD	4.930827	6.089365	24.88232	2.425457	17.88184	79.17779
#1	10.05808	.1070019	.1193749	8.849372	.0164178	.0035147
#2	10.46483	.1084321	.1839188	8.459779	.0133538	.0002669
#3	11.08960	.0968096	.1256944	8.795252	.0191879	.0025262

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: PB165495BS Acquired: 12/17/2024 18:17:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS495 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0177213	.1778516	F .5010147	.0130003	.1955396	.2074706
Stddev	.0001280	.0025074	.0038372	.0014551	.0026915	.0000820
%RSD	.7223224	1.409830	.7658790	11.19283	1.376445	.0395102
#1	.0176203	.1803176	.5041182	.0145729	.1951364	.2074771
#2	.0176784	.1779325	.5022015	.0127261	.1984100	.2073856
#3	.0178652	.1753048	.4967243	.0117018	.1930725	.2075492

Elem	Li6707
Units	ppm
Avg	F .0187198
Stddev	.0053319
%RSD	28.48279
#1	.0195200
#2	.0236064
#3	.0130330

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1867.292	22885.08	1180.977	1581.981	2447.920
Stddev	5.764	63.50	7.951	4.121	8.180
%RSD	.3086787	.2774659	.6732165	.2605167	.3341719
#1	1860.640	22944.85	1173.409	1586.728	2439.398
#2	1870.813	22891.98	1180.260	1579.900	2455.709
#3	1870.422	22818.42	1189.262	1579.316	2448.653

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: PB165506BL Acquired: 12/17/2024 18:21:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: PBS506 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041903	.0018058	-.001929	-.000614	.0002605	.0559384	-.000382
Stddev	.0031227	.0023281	.001124	.005336	.0001654	.0358896	.001493
%RSD	74.52358	128.9260	58.23999	869.0796	63.49183	64.15917	390.3256
#1	.0024296	.0003036	-.001369	.004588	.0003562	.0739650	-.001781
#2	.0023454	.0006261	-.003223	-.006075	.0000695	.0792414	.001190
#3	.0077957	.0044876	-.001196	-.000354	.0003558	.0146088	-.000556

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002593	.0000349	.0264456	-.000064	.0000080	-.005818	-.033882
Stddev	.0002945	.0001028	.0330133	.000407	.0002088	.011103	.050526
%RSD	113.5773	294.3638	124.8350	638.7238	2593.825	190.8422	149.1222
#1	.0002232	.0000537	.0027121	.000175	.0002309	.001160	-.037006
#2	.0005701	.0001270	.0641469	-.000533	-.000183	.000008	-.082774
#3	-.000016	-.000076	.0124778	.000168	-.000024	-.018621	.018133

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003601	-.041973	-.000368	-.000463	.2821240	-.002493	.0227290
Stddev	.003018	.095486	.000471	.000981	1.030010	.018580	.0222134
%RSD	83.82149	227.4919	128.0546	211.8389	365.0912	745.2300	97.73146
#1	-.000312	.068274	-.000746	.000602	1.289672	-.017319	.0017584
#2	-.006245	-.098412	.000160	-.000663	.325667	-.008509	.0460053
#3	-.004245	-.095781	-.000518	-.001329	-.768967	.018349	.0204232

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.652978	.0027938	.0004855	-.000354	.0010345	-.001596	-.001253
Stddev	.226678	.0018560	.0022863	.000005	.0022938	.000619	.001121
%RSD	34.71446	66.43256	470.9605	1.361808	221.7333	38.80480	89.53555
#1	-.560342	.0048950	-.002154	-.000360	-.001451	-.000883	-.002397
#2	-.911303	.0021088	.001747	-.000353	.003070	-.002003	-.000155
#3	-.487289	.0013777	.001863	-.000351	.001484	-.001901	-.001206

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: PB165506BL Acquired: 12/17/2024 18:21:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: PBS506 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0011526	.0000776	F -.015836
Stddev	.0047035	.0003784	.001894
%RSD	408.0724	487.4268	11.95945
#1	.0003157	-.000166	-.016439
#2	-.003076	.000514	-.017355
#3	.006218	-.000114	-.013714

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1878.331	23076.60	1173.599	1597.763	2475.506
Stddev	6.232	365.69	7.810	31.366	6.707
%RSD	.3317939	1.584663	.6654798	1.963134	.2709202
#1	1878.902	22753.83	1175.757	1571.401	2474.357
#2	1884.257	23002.20	1180.104	1589.436	2482.712
#3	1871.832	23473.76	1164.938	1632.453	2469.447

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: PB165506BS Acquired: 12/17/2024 18:25:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: LCS506 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0226715	.0554214	.0169934	.0548872	.1004175	.4285024
Stddev	.0042248	.0030721	.0027691	.0028559	.0027910	.0188749
%RSD	18.63498	5.543244	16.29491	5.203249	2.779441	4.404862
#1	.0252476	.0566039	.0193562	.0573520	.1035810	.4474973
#2	.0177957	.0519337	.0176777	.0555520	.0983030	.4097498
#3	.0249712	.0577266	.0139464	.0517575	.0993683	.4282602

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4014722	.0105061	.0097234	10.06362	.0215897	.1026404
Stddev	.0066545	.0000543	.0000733	.24351	.0002780	.0005094
%RSD	1.657526	.5172277	.7540033	2.419753	1.287780	.4962781
#1	.4088715	.0105425	.0097741	10.32746	.0217097	.1022676
#2	.3995670	.0104437	.0096394	10.01592	.0217875	.1024329
#3	.3959781	.0105323	.0097569	9.84749	.0212718	.1032208

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0692674	.1814246	.0316281	10.13138	.0776383	.0202830
Stddev	.0087370	.0755429	.0025543	.10786	.0005571	.0007522
%RSD	12.61342	41.63875	8.076100	1.064619	.7175224	3.708684
#1	.0777949	.2683456	.0289241	10.18066	.0770850	.0211135
#2	.0696724	.1316168	.0340003	10.20580	.0776309	.0200882
#3	.0603350	.1443114	.0319598	10.00768	.0781991	.0196474

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.04888	.1029291	.1459215	8.761757	.0191284	F .0007963
Stddev	1.12723	.0072368	.0070663	.444897	.0041572	.0016084
%RSD	11.21744	7.030812	4.842543	5.077716	21.73315	201.9754
#1	8.82873	.0963876	.1394201	9.118352	.0144116	.0020798
#2	10.26646	.1107029	.1534420	8.903714	.0207147	-.001008
#3	11.05146	.1016970	.1449022	8.263204	.0222590	.001317

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: PB165506BS Acquired: 12/17/2024 18:25:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: LCS506 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0179209	.1746454	F .4945734	.0110823	.1988398	.2055573
Stddev	.0002615	.0020383	.0045582	.0002510	.0072116	.0025959
%RSD	1.459359	1.167085	.9216471	2.264447	3.626844	1.262863
#1	.0178557	.1735003	.4977503	.0113429	.2056893	.2078220
#2	.0176982	.1769987	.4966193	.0110616	.1995163	.2061256
#3	.0182089	.1734371	.4893507	.0108423	.1913137	.2027243

Elem	Li6707
Units	ppm
Avg	F .0164224
Stddev	.0049764
%RSD	30.30253
#1	.0158328
#2	.0216673
#3	.0117670

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1856.720	22892.81	1186.530	1580.194	2440.396
Stddev	8.577	37.02	16.269	4.258	6.504
%RSD	.4619548	.1617053	1.371107	.2694517	.2665121
#1	1862.392	22858.62	1172.753	1585.035	2445.717
#2	1860.915	22887.69	1182.359	1577.029	2442.324
#3	1846.852	22932.12	1204.478	1578.519	2433.146

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: PB165466BL Acquired: 12/17/2024 18:29:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: PBS466 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011305	.0019138	-.004354	-.003325	-.001559	.0084003	-.002465
Stddev	.0006581	.0016998	.000791	.001111	.001577	.0017250	.000788
%RSD	58.21605	88.81702	18.17691	33.41774	101.1507	20.53543	31.99128
#1	.0014211	.0033510	-.005259	-.002430	-.000779	.0070183	-.003179
#2	.0015932	.0000376	-.003792	-.004569	-.000524	.0078491	-.002596
#3	.0003771	.0023527	-.004011	-.002976	-.003373	.0103336	-.001619

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000590	-.000029	.0569214	-.000042	.0001669	.0113004	-.006579
Stddev	.0001709	.000107	.0579193	.000631	.0001680	.0024716	.045354
%RSD	289.4296	364.3427	101.7531	1511.873	100.6441	21.87157	689.3450
#1	-.000130	-.000138	.0984275	.000684	.0000068	.0137223	.014088
#2	.000106	.000075	-.009247	-.000464	.0003417	.0087819	.024760
#3	.000202	-.000025	.081584	-.000345	.0001521	.0113970	-.058586

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000642	-.055915	.0003160	.0008239	.3024632	.0022037	.0215440
Stddev	.001342	.108786	.0007466	.0008569	.6926492	.0091361	.0099649
%RSD	209.2541	194.5567	236.2235	103.9991	229.0028	414.5867	46.25362
#1	.000583	.069693	.0011777	.0004831	-.285602	-.004971	.0139999
#2	-.000430	-.119885	-.000139	.0017987	1.065961	.012489	.0177919
#3	-.002077	-.117552	-.000091	.0001899	.127031	-.000907	.0328403

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.699179	.0008649	.0008579	-.000183	.0031256	-.000213	-.000922
Stddev	.562692	.0020520	.0025121	.000240	.0026611	.000459	.000523
%RSD	80.47901	237.2633	292.8083	131.3002	85.13974	215.5664	56.70586
#1	-.752112	-.001490	.0035955	-.000231	.0001953	-.000666	-.001519
#2	-1.23353	.001812	.0003196	-.000396	.0053917	.000251	-.000695
#3	-.11189	.002272	-.001341	.000078	.0037897	-.000224	-.000550

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: PB165466BL Acquired: 12/17/2024 18:29:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: PBS466 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0001569	.0001216	-.008836
Stddev	.0038783	.0003276	.008529
%RSD	2471.350	269.4023	96.52284
#1	-.003434	.0003421	.000362
#2	.004270	-.000255	-.010388
#3	-.000365	.000278	-.016483

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1835.036	22644.33	1153.823	1556.852	2414.496
Stddev	7.955	16.33	13.666	3.406	10.870
%RSD	.4334957	.0721049	1.184410	.2187517	.4502112
#1	1838.303	22634.83	1168.664	1559.614	2419.597
#2	1825.968	22663.18	1141.759	1553.047	2402.013
#3	1840.837	22634.97	1151.044	1557.896	2421.877

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: PB165466BS Acquired: 12/17/2024 18:33:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: LCS466 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0225166	.0540225	.0171891	.0550081	.1004371	.4072632
Stddev	.0062651	.0017489	.0008009	.0033779	.0050759	.0103834
%RSD	27.82438	3.237363	4.659265	6.140828	5.053773	2.549555
#1	.0216158	.0521630	.0163172	.0520410	.1012616	.4185564
#2	.0167506	.0556344	.0173580	.0542988	.0949994	.4051040
#3	.0291833	.0542701	.0178920	.0586843	.1050502	.3981291

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4010226	.0104599	.0098431	10.05235	.0213261	.1040157
Stddev	.0019667	.0000419	.0003319	.03855	.0004036	.0036428
%RSD	.4904176	.4004549	3.372294	.3834565	1.892585	3.502154
#1	.3987517	.0104285	.0095190	10.00812	.0215428	.1018573
#2	.4021594	.0105075	.0098279	10.07014	.0208604	.1019683
#3	.4021567	.0104438	.0101824	10.07879	.0215750	.1082216

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0612027	.1643250	.0290769	10.19188	.0786064	.0195765
Stddev	.0030604	.0493430	.0004185	.17355	.0021023	.0006960
%RSD	5.000457	30.02767	1.439203	1.702829	2.674497	3.555081
#1	.0625890	.2212955	.0288135	10.38678	.0775607	.0194681
#2	.0633246	.1365518	.0295595	10.13479	.0772320	.0189411
#3	.0576944	.1351278	.0288578	10.05407	.0810266	.0203203

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.315340	.0982446	.1360853	8.855525	.0186569	F .0021228
Stddev	.403224	.0104370	.0305715	.343663	.0001649	.0018382
%RSD	4.328607	10.62347	22.46499	3.880779	.8840214	86.59145
#1	9.724994	.0861931	.1102876	8.849127	.0186972	.0001281
#2	8.918868	.1042270	.1281160	8.515104	.0184756	.0037486
#3	9.302157	.1043135	.1698523	9.202342	.0187980	.0024919

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: PB165466BS Acquired: 12/17/2024 18:33:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: LCS466 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0181492	.1794927	F .4970009	.0115516	.1889869	.2084154
Stddev	.0005639	.0065883	.0024309	.0008425	.0042912	.0015557
%RSD	3.106901	3.670504	.4891078	7.293617	2.270623	.7464371
#1	.0178626	.1770127	.4995453	.0122859	.1844364	.2066871
#2	.0177862	.1745043	.4967551	.0117370	.1929604	.2097038
#3	.0187988	.1869611	.4947022	.0106318	.1895639	.2088554

Elem	Li6707
Units	ppm
Avg	F .0173835
Stddev	.0010481
%RSD	6.029178
#1	.0185276
#2	.0164698
#3	.0171531

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1835.497	23009.58	1176.334	1582.626	2400.823
Stddev	46.633	280.46	1.949	17.347	65.257
%RSD	2.540646	1.218876	.1656426	1.096083	2.718126
#1	1856.065	22939.83	1177.223	1589.865	2431.739
#2	1868.311	23318.33	1174.100	1595.180	2444.877
#3	1782.116	22770.58	1177.680	1562.832	2325.853

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: PB165453BL Acquired: 12/17/2024 18:37:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: PBS453 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000035	.0019248	-.003130	-.001029	-.001710	.0378811	-.001779
Stddev	.0025302	.0031918	.001979	.004790	.002351	.0165284	.001891
%RSD	73030.13	165.8232	63.24009	465.6136	137.5190	43.63231	106.2922
#1	-.000669	-.001167	-.004227	-.005887	.000416	.0563855	-.001323
#2	.002802	.001733	-.004317	.003690	-.001310	.0326759	-.000158
#3	-.002123	.005208	-.000845	-.000889	-.004236	.0245819	-.003857

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000521	-.000075	.1867972	.0011113	.0001253	.0039094	.0198294
Stddev	.0001707	.000101	.0555527	.0007709	.0001816	.0071710	.0491423
%RSD	327.8101	134.2604	29.73956	69.37675	144.9170	183.4305	247.8253
#1	.0000268	-.000179	.2416704	.0016138	.0000008	.0121542	-.034235
#2	.0002340	.000022	.1881319	.0002236	.0000414	-.000877	.031938
#3	-.000105	-.000068	.1305891	.0014963	.0003337	.000451	.061786

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007843	-.143231	.0003236	.0000012	.6545238	-.002517	.0315956
Stddev	.0009793	.056520	.0006106	.0001036	.9546638	.008370	.0140065
%RSD	124.8554	39.46032	188.6823	8728.626	145.8562	332.5864	44.33055
#1	.0010879	-.135879	.0004066	-.000082	.3990309	.001900	.0352093
#2	-.000311	-.203068	.0008885	-.000031	1.710939	.002720	.0161363
#3	.001576	-.090748	-.000324	.000117	-.146398	-.012169	.0434411

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.686532	.0002455	-.000848	.0002075	.0120641	-.000388	-.000113
Stddev	.077680	.0000818	.003324	.0002560	.0017754	.000740	.002310
%RSD	11.31489	33.30483	392.2449	123.3737	14.71664	190.8418	2050.670
#1	-.768779	.0003310	-.001068	.0004056	.0104625	.000459	-.000781
#2	-.676403	.0002377	-.004056	-.000082	.0117564	-.000909	-.002014
#3	-.614412	.0001680	.002582	.000299	.0139732	-.000713	.002458

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: PB165453BL Acquired: 12/17/2024 18:37:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: PBS453 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.001207	-.000117	-.008191
Stddev	.003242	.000166	.007607
%RSD	268.5532	141.4690	92.86660
#1	-.002382	-.000192	-.011993
#2	-.003697	-.000232	-.013147
#3	.002458	.000073	.000567

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1875.281	22652.45	1179.591	1566.665	2466.664
Stddev	3.309	306.55	12.720	19.701	5.353
%RSD	.1764523	1.353283	1.078351	1.257535	.2170317
#1	1874.099	22453.33	1167.538	1555.787	2464.831
#2	1879.019	22498.56	1192.887	1554.800	2472.694
#3	1872.726	23005.46	1178.349	1589.407	2462.468

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: PB165453BS Acquired: 12/17/2024 18:41:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: LCS453 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0208023	.0516593	.0161752	.0554598	.0982254	.3986104
Stddev	.0006354	.0009234	.0029235	.0037026	.0039596	.0428391
%RSD	3.054258	1.787430	18.07382	6.676210	4.031176	10.74711
#1	.0200840	.0512276	.0143710	.0584209	.0936640	.3567889
#2	.0212906	.0510309	.0195482	.0566502	.1007786	.3966429
#3	.0210323	.0527195	.0146065	.0513085	.1002334	.4423993

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3977630	.0103014	.0093855	9.947050	.0206127	.1004078
Stddev	.0038412	.0002532	.0002046	.115498	.0004462	.0009011
%RSD	.9656902	2.457464	2.180101	1.161131	2.164560	.8974161
#1	.3953261	.0100233	.0096090	9.821894	.0211066	.1005068
#2	.3957720	.0103623	.0092074	9.969732	.0204930	.1012552
#3	.4021909	.0105185	.0093401	10.04952	.0202386	.0994613

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0587196	.2408060	.0335270	9.991071	.0761939	.0196438
Stddev	.0092413	.0525028	.0041620	.151204	.0013322	.0009367
%RSD	15.73798	21.80294	12.41375	1.513391	1.748367	4.768577
#1	.0537152	.2029193	.0301230	9.924774	.0766961	.0206842
#2	.0693838	.2187618	.0322910	9.884340	.0772021	.0188673
#3	.0530598	.3007371	.0381669	10.16410	.0746837	.0193800

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.09810	.1034808	.1329984	8.588496	.0180580	F -.000521
Stddev	.97502	.0164012	.0161417	.234911	.0006080	.000488
%RSD	9.655520	15.84949	12.13678	2.735186	3.366845	93.58627
#1	9.48143	.0930687	.1355473	8.339025	.0177035	-.000767
#2	11.22219	.0949868	.1477141	8.805462	.0177105	.000041
#3	9.59067	.1223868	.1157339	8.621000	.0187600	-.000838

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: PB165453BS Acquired: 12/17/2024 18:41:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: LCS453 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0173230	.1752619	F .4915329	.0132887	.1891676	.2035078
Stddev	.0008286	.0044321	.0052776	.0014746	.0038675	.0021861
%RSD	4.783487	2.528838	1.073709	11.09651	2.044504	1.074218
#1	.0180959	.1727609	.4855362	.0138610	.1852683	.2014627
#2	.0174250	.1803792	.4935916	.0143913	.1930025	.2032489
#3	.0164480	.1726456	.4954709	.0116137	.1892321	.2058119

Elem	Li6707
Units	ppm
Avg	.0220088
Stddev	.0024853
%RSD	11.29221
#1	.0200942
#2	.0248174
#3	.0211148

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1875.248	23006.22	1192.911	1594.782	2466.607
Stddev	15.509	26.84	14.307	1.610	24.392
%RSD	.8270612	.1166475	1.199313	.1009480	.9889091
#1	1870.512	23032.90	1208.384	1594.271	2453.336
#2	1862.658	22979.23	1190.187	1596.585	2451.726
#3	1892.573	23006.52	1180.163	1593.489	2494.757

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-01 Acquired: 12/17/2024 18:45:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1054663	-.049904	.3483158	.0610983	.0253085	57.80137	.6872881
Stddev	.0021697	.006410	.0051876	.0038463	.0003742	.13109	.0007264
%RSD	2.057260	12.84560	1.489336	6.295235	1.478646	.2267896	.1056881
#1	.1032389	-.045998	.3437210	.0575289	.0252122	57.70235	.6867773
#2	.1055866	-.057302	.3472849	.0651718	.0257214	57.95003	.6881196
#3	.1075734	-.046412	.3539414	.0605941	.0249918	57.75173	.6869673

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0078133	.0045190	44.21823	.0895588	.1013029	.2023443	163.8609
Stddev	.0001040	.0002321	.19118	.0007560	.0017158	.0045596	.2752
%RSD	1.330498	5.135509	.4323480	.8441851	1.693706	2.253370	.1679341
#1	.0078594	.0043706	44.20021	.0890679	.0997048	.1972977	163.6169
#2	.0076942	.0044000	44.41778	.0891792	.1010878	.2061672	164.1592
#3	.0078862	.0047865	44.03670	.0904295	.1031161	.2035679	163.8066

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.329111	22.21146	.1374778	.0032907	1.690363	.1628026	.6601694
Stddev	.027157	.12678	.0016914	.0012017	.036106	.0130838	.0144901
%RSD	.3260442	.5707655	1.230299	36.51748	2.135993	8.036599	2.194899
#1	8.338501	22.31690	.1361739	.0026458	1.682994	.1648501	.6746614
#2	8.350327	22.24668	.1368705	.0046771	1.729585	.1488159	.6456813
#3	8.298506	22.07080	.1393890	.0025491	1.658510	.1747420	.6601653

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.773278	7.204923	-.006383	.0025059	2.344873	7.840950	.0729319
Stddev	.160395	.103082	.002805	.0001593	.030812	.052421	.0005159
%RSD	9.045119	1.430712	43.93998	6.357637	1.314000	.6685558	.7073343
#1	1.936823	7.137354	-.008469	.0026407	2.325887	7.864797	.0730832
#2	1.616230	7.153845	-.007487	.0023301	2.328308	7.877209	.0723573
#3	1.766783	7.323570	-.003195	.0025468	2.380424	7.780845	.0733552

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-01 Acquired: 12/17/2024 18:45:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL03 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5937290	-.071507	.0557544
Stddev	.0063040	.000367	.0069758
%RSD	1.061769	.5131119	12.51159
#1	.6008235	-.071119	.0480596
#2	.5915933	-.071553	.0575391
#3	.5887703	-.071849	.0616644

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2423.317	30039.15	1556.774	2076.314	2391.932
Stddev	22.731	32.96	12.346	5.437	27.266
%RSD	.9379988	.1097127	.7930378	.2618573	1.139899
#1	2428.260	30076.29	1550.925	2079.090	2403.971
#2	2443.170	30013.39	1548.439	2079.802	2411.106
#3	2398.522	30027.77	1570.957	2070.049	2360.719

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-02 Acquired: 12/17/2024 18:49:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1679281	-.053462	.4045309	.0722232	.0319702	64.05016	1.079035
Stddev	.0048786	.002158	.0025980	.0018661	.0032924	.52687	.008691
%RSD	2.905158	4.035690	.6422181	2.583757	10.29833	.8225874	.8054811
#1	.1735483	-.052003	.4049062	.0700725	.0299219	64.01427	1.079486
#2	.1654496	-.052442	.4017658	.0731837	.0357680	63.54215	1.070127
#3	.1647863	-.055940	.4069209	.0734133	.0302207	64.59406	1.087492

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0097750	.0045154	162.1433	.1042804	.1490619	.2999284	215.9844
Stddev	.0002001	.0001819	1.0625	.0007756	.0009613	.0122202	2.3673
%RSD	2.046608	4.029163	.6552897	.7437798	.6449167	4.074363	1.096040
#1	.0097397	.0047026	162.1262	.1043215	.1485148	.3005066	216.0457
#2	.0095949	.0043392	161.0894	.1034851	.1484990	.2874293	213.5870
#3	.0099903	.0045044	163.2142	.1050347	.1501719	.3118492	218.3204

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.950848	50.98726	.1844217	.0059092	.9566789	.1887470	.7223171
Stddev	.108772	.18110	.0003864	.0006289	.6586040	.0061873	.0154539
%RSD	1.093088	.3551851	.2095118	10.64195	68.84274	3.278089	2.139496
#1	9.938056	50.93115	.1840740	.0056150	.5027887	.1849459	.7399680
#2	9.849037	50.84087	.1843535	.0054814	.6551858	.1854086	.7157625
#3	10.06545	51.18978	.1848377	.0066312	1.712062	.1958865	.7112207

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.044525	5.370659	-.001307	.0013670	1.142280	7.787744	.0290620
Stddev	.238527	.027455	.003944	.0008600	.001902	.115372	.0006157
%RSD	5.897517	.5112070	301.7170	62.90725	.1665217	1.481452	2.118519
#1	3.995018	5.340429	.002660	.0004697	1.141924	7.721089	.0294649
#2	4.303920	5.377504	-.005228	.0014475	1.144335	7.721179	.0283533
#3	3.834636	5.394044	-.001354	.0021839	1.140582	7.920964	.0293678

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-02 Acquired: 12/17/2024 18:49:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL04 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4476795	-.043759	.0875544
Stddev	.0081191	.000615	.0014863
%RSD	1.813589	1.405326	1.697543
#1	.4490416	-.044452	.0862341
#2	.4389655	-.043281	.0891641
#3	.4550313	-.043543	.0872651

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2440.833	30115.34	1546.055	2077.729	2280.291
Stddev	1.276	73.94	20.862	8.241	3.894
%RSD	.0522800	.2455274	1.349393	.3966183	.1707472
#1	2439.792	30050.37	1558.071	2070.822	2284.513
#2	2442.256	30195.80	1558.129	2075.515	2279.521
#3	2440.450	30099.85	1521.965	2086.851	2276.841

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-03 Acquired: 12/17/2024 18:53:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1318358	-.019370	.2910357	.0404420	.0227230	53.42991	.6821997
Stddev	.0051722	.003637	.0062247	.0028080	.0039615	.23287	.0012992
%RSD	3.923250	18.77802	2.138824	6.943308	17.43405	.4358449	.1904362
#1	.1296055	-.022763	.2855278	.0429687	.0272851	53.31048	.6828678
#2	.1281528	-.015530	.2897904	.0409385	.0207318	53.28097	.6807024
#3	.1377490	-.019819	.2977890	.0374189	.0201520	53.69826	.6830288

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0075477	.0037628	644.1560	.0918376	.1345746	.2784750	180.7391
Stddev	.0000974	.0001382	3.4646	.0007224	.0010415	.0111001	.6359
%RSD	1.291082	3.673945	.5378472	.7865868	.7738801	3.986019	.3518258
#1	.0075679	.0036785	642.3684	.0921665	.1340600	.2883774	180.2876
#2	.0074417	.0039223	641.9504	.0910093	.1338906	.2805714	180.4633
#3	.0076334	.0036875	648.1493	.0923370	.1357732	.2664763	181.4663

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.559882	35.87221	.1622281	.0026456	.6352954	.1715221	.7383470
Stddev	.021285	.00825	.0014501	.0016181	.5646664	.0084969	.0106238
%RSD	.2226541	.0230120	.8938464	61.16236	88.88250	4.953792	1.438861
#1	9.542718	35.86272	.1619548	.0041595	1.034485	.1630667	.7277062
#2	9.553229	35.87618	.1609342	.0009403	-.010768	.1800598	.7383811
#3	9.583699	35.87773	.1637954	.0028368	.882169	.1714398	.7489537

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.285637	5.898416	.0081529	.0005537	.7478042	6.691976	.0356295
Stddev	.034445	.049610	.0041684	.0002332	.0102727	.037269	.0010304
%RSD	.8037379	.8410703	51.12756	42.11141	1.373714	.5569219	2.892045
#1	4.320539	5.859891	.0055443	.0007991	.7360850	6.718575	.0360428
#2	4.251667	5.880965	.0059541	.0005269	.7520754	6.649379	.0363890
#3	4.284706	5.954394	.0129603	.0003351	.7552522	6.707974	.0344566

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-03 Acquired: 12/17/2024 18:53:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL05 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4649793	.3000698	.1110518
Stddev	.0027941	.0012243	.0027608
%RSD	.6009179	.4080011	2.486087
#1	.4645337	.2992686	.1130157
#2	.4679695	.2994618	.1078951
#3	.4624347	.3014791	.1122446

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2232.631	27378.36	1463.412	1888.324	2172.220
Stddev	5.926	149.94	4.613	13.002	8.398
%RSD	.2654430	.5476580	.3152009	.6885322	.3866181
#1	2230.938	27377.44	1459.926	1893.930	2177.029
#2	2239.220	27228.88	1468.642	1873.459	2177.108
#3	2227.735	27528.75	1461.668	1897.582	2162.523

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-04 Acquired: 12/17/2024 18:57:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0831193	-.026687	.2699926	.0259675	.0187329	61.00663
Stddev	.0021463	.003627	.0047050	.0049917	.0009900	.52940
%RSD	2.582169	13.59017	1.742646	19.22289	5.284865	.8677702
#1	.0833049	-.022534	.2692324	.0208668	.0188998	61.25156
#2	.0808862	-.028293	.2657140	.0308425	.0176700	61.36921
#3	.0851667	-.029233	.2750314	.0261932	.0196288	60.39912

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5527118	.0075204	.0032126	F 815.5733	.1006038	.1284320
Stddev	.0035672	.0000836	.0001452	6.5760	.0011311	.0006355
%RSD	.6454073	1.111561	4.518393	.8063046	1.124320	.4948152
#1	.5557780	.0075982	.0030470	818.2683	.1011575	.1290877
#2	.5535607	.0075310	.0032734	820.3736	.0993025	.1283895
#3	.5487967	.0074320	.0033175	808.0779	.1013514	.1278188

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2568490	168.9878	5.594777	132.2382	.1623575	.0025044
Stddev	.0110956	1.2743	.042372	.9894	.0009428	.0014038
%RSD	4.319893	.7540796	.7573430	.7481998	.5806746	56.05188
#1	.2516882	169.6878	5.609775	132.0707	.1620950	.0010638
#2	.2695850	169.7586	5.627610	133.3006	.1615738	.0025812
#3	.2492738	167.5169	5.546946	131.3432	.1634037	.0038682

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.001453	.1623036	.6748547	4.248654	6.976489	.0087277
Stddev	1.090777	.0114595	.0035184	.179069	.037715	.0020801
%RSD	54.49926	7.060523	.5213595	4.214726	.5406049	23.83333
#1	.743356	.1700830	.6789101	4.205604	6.944726	.0063261
#2	2.682346	.1676837	.6726164	4.095035	6.966569	.0098996
#3	2.578659	.1491440	.6730375	4.445325	7.018173	.0099575

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-04 Acquired: 12/17/2024 18:57:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL06 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000377	1.197546	7.674985	.0341029	.5299478	.5070238
Stddev	.000537	.010758	.070426	.0026323	.0038298	.0026733
%RSD	142.3451	.8983345	.9176004	7.718614	.7226796	.5272595
#1	-.000597	1.199024	7.674353	.0350650	.5342432	.5087484
#2	-.000769	1.186126	7.745725	.0361188	.5287106	.5083788
#3	.000235	1.207489	7.604878	.0311249	.5268894	.5039443

Elem	Li6707
Units	ppm
Avg	.1276956
Stddev	.0039017
%RSD	3.055498
#1	.1315947
#2	.1277010
#3	.1237912

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2190.751	26938.60	1468.714	1857.372	2087.167
Stddev	8.236	178.29	6.847	9.624	7.436
%RSD	.3759428	.6618250	.4661772	.5181517	.3562488
#1	2183.340	26904.06	1465.410	1851.988	2083.338
#2	2199.618	27131.64	1464.146	1868.483	2095.736
#3	2189.297	26780.12	1476.586	1851.645	2082.426

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-05 Acquired: 12/17/2024 19:00:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL07 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2128143	-.057741	2.535479	.0721031	.0330424	79.42047
Stddev	.0041791	.001934	.001499	.0042066	.0014030	.33668
%RSD	1.963710	3.349846	.0591143	5.834145	4.246058	.4239206
#1	.2155612	-.055883	2.535618	.0687457	.0336222	79.16475
#2	.2148768	-.059744	2.536904	.0707419	.0340626	79.80192
#3	.2080049	-.057596	2.533916	.0768217	.0314424	79.29474

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.638105	.0091096	.0092984	49.10420	.1769673	.1168424
Stddev	.009477	.0000729	.0000459	.13279	.0014927	.0008035
%RSD	.5785263	.7997950	.4940561	.2704196	.8434818	.6876757
#1	1.630646	.0091510	.0093320	48.98544	.1768921	.1163047
#2	1.648768	.0091523	.0092461	49.24757	.1784962	.1164565
#3	1.634899	.0090255	.0093173	49.07959	.1755137	.1177661

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5358241	175.0957	6.853025	17.79577	.1865814	.0062379
Stddev	.0075509	.8654	.028945	.08889	.0009838	.0004367
%RSD	1.409212	.4942176	.4223729	.4995005	.5272474	7.001349
#1	.5358028	174.1534	6.819603	17.72334	.1873457	.0066969
#2	.5282839	175.8548	6.869961	17.76900	.1854715	.0058275
#3	.5433857	175.2790	6.869511	17.89496	.1869270	.0061893

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8839208	.2062938	2.317066	11.30957	F 24.18848	-.011425
Stddev	.7505923	.0095648	.022174	.14034	.02379	.001251
%RSD	84.91624	4.636518	.9570074	1.240861	.0983421	10.94711
#1	.4374404	.2039269	2.295034	11.25240	24.16575	-.010081
#2	.4638258	.1981346	2.339381	11.20685	24.21320	-.012555
#3	1.750496	.2168199	2.316783	11.46947	24.18648	-.011640

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-05 Acquired: 12/17/2024 19:00:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL07 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0077981	3.478248	8.772116	.2088516	.5223925	-.023389
Stddev	.0005657	.009249	.040688	.0019230	.0072827	.000501
%RSD	7.253843	.2659109	.4638331	.9207512	1.394101	2.140879
#1	.0082245	3.467657	8.775978	.2087365	.5171350	-.022826
#2	.0071564	3.482352	8.810735	.2069887	.5307051	-.023785
#3	.0080134	3.484735	8.729635	.2108295	.5193374	-.023557

Elem	Li6707
Units	ppm
Avg	.0820432
Stddev	.0021696
%RSD	2.644457
#1	.0844934
#2	.0812703
#3	.0803659

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2298.284	27896.00	1433.550	1934.091	2454.492
Stddev	5.899	159.39	3.573	17.319	5.924
%RSD	.2566584	.5713855	.2492371	.8954851	.2413641
#1	2304.070	28029.59	1434.619	1951.651	2460.933
#2	2298.504	27719.56	1429.565	1917.023	2453.266
#3	2292.279	27938.85	1436.467	1933.598	2449.277

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-06 Acquired: 12/17/2024 19:04:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL08 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2661773	-.078413	3.043215	.0866500	.0398338	90.84955
Stddev	.0048068	.002629	.017550	.0043686	.0010969	.60891
%RSD	1.805873	3.353063	.5766890	5.041636	2.753730	.6702380
#1	.2688482	-.078733	3.046048	.0831469	.0391512	90.34269
#2	.2606282	-.075639	3.059176	.0915449	.0410991	91.52499
#3	.2690555	-.080868	3.024421	.0852581	.0392511	90.68098

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.797593	.0104518	.0106902	40.74322	.2203853	.1292187
Stddev	.013106	.0001004	.0000898	.40509	.0014854	.0005984
%RSD	.7290776	.9609906	.8397301	.9942631	.6739884	.4630582
#1	1.787367	.0103464	.0107398	40.43789	.2188567	.1295120
#2	1.812367	.0105464	.0107442	41.20277	.2218233	.1296138
#3	1.793046	.0104627	.0105866	40.58899	.2204757	.1285303

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8694165	207.2389	8.096175	19.35037	.2180587	.0071142
Stddev	.0066146	1.7066	.072880	.13041	.0017742	.0006102
%RSD	.7608052	.8235168	.9001744	.6739268	.8136433	8.577811
#1	.8621009	206.0019	8.039335	19.20297	.2196530	.0064307
#2	.8711732	209.1859	8.178338	19.45074	.2183757	.0076044
#3	.8749754	206.5288	8.070852	19.39741	.2161473	.0073075

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.156870	.2565996	2.418943	10.28313	F 21.70807	-.019244
Stddev	.284613	.0022852	.027879	.14261	.14885	.002395
%RSD	24.60196	.8905551	1.152516	1.386867	.6856854	12.44332
#1	1.476758	.2549329	2.415681	10.34374	21.78145	-.018714
#2	1.062179	.2556615	2.448310	10.38542	21.80599	-.021859
#3	.931673	.2592046	2.392839	10.12022	21.53678	-.017159

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-06 Acquired: 12/17/2024 19:04:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL08 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0079790	2.592871	8.961576	.2379195	.6420726	-.054161
Stddev	.0002148	.006906	.067420	.0011032	.0036455	.000540
%RSD	2.691967	.2663370	.7523232	.4636770	.5677773	.9961224
#1	.0077674	2.596024	8.903490	.2379093	.6385810	-.054361
#2	.0081968	2.597637	9.035507	.2390277	.6458547	-.054573
#3	.0079727	2.584951	8.945731	.2368214	.6417821	-.053551

Elem	Li6707
Units	ppm
Avg	.0967144
Stddev	.0016522
%RSD	1.708374
#1	.0951517
#2	.0965480
#3	.0984436

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2292.639	27885.03	1431.869	1930.436	2439.690
Stddev	12.569	108.87	15.095	10.159	13.706
%RSD	.5482345	.3904170	1.054189	.5262659	.5618031
#1	2294.551	28008.80	1447.075	1940.609	2437.134
#2	2279.223	27804.11	1416.889	1920.290	2427.442
#3	2304.142	27842.18	1431.642	1930.408	2454.494

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-07 Acquired: 12/17/2024 19:08:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL09 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2471510	-.068648	2.259492	.0840314	.0342885	84.93002
Stddev	.0076804	.002639	.066761	.0055537	.0017760	.25290
%RSD	3.107574	3.844825	2.954672	6.609122	5.179564	.2977775
#1	.2528162	-.065972	2.294953	.0777826	.0343680	85.21482
#2	.2502275	-.068722	2.182484	.0859074	.0360234	84.84351
#3	.2384092	-.071249	2.301039	.0884041	.0324741	84.73172

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.474594	.0095223	.0080349	26.29339	.1655377	.1088243
Stddev	.002400	.0001460	.0003046	.17235	.0007333	.0036703
%RSD	.1627901	1.532753	3.790402	.6554773	.4429625	3.372701
#1	1.477341	.0096796	.0081635	26.48412	.1662902	.1095520
#2	1.473540	.0094961	.0076871	26.14883	.1654977	.1048446
#3	1.472901	.0093913	.0082540	26.24720	.1648253	.1120762

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4633106	184.9469	7.575128	17.18581	.1667567	.0056027
Stddev	.0083462	.5573	.023539	.10279	.0051936	.0005465
%RSD	1.801415	.3013376	.3107434	.5980861	3.114498	9.753485
#1	.4586295	185.4052	7.593921	17.18063	.1693402	.0050446
#2	.4583558	185.1089	7.582737	17.08571	.1607780	.0061368
#3	.4729466	184.3265	7.548725	17.29108	.1701520	.0056268

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1051782	.2221647	1.644079	5.735081	F 11.66891	-.020623
Stddev	.8453115	.0068477	.014210	.140722	.35836	.003309
%RSD	803.6946	3.082254	.8643367	2.453699	3.071092	16.04437
#1	-.692914	.2300691	1.636879	5.897556	11.85710	-.024158
#2	.990885	.2183912	1.634909	5.655829	11.25565	-.020109
#3	.017564	.2180339	1.660448	5.651857	11.89396	-.017600

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-07 Acquired: 12/17/2024 19:08:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL09 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0068642	1.409314	8.744324	.1616956	.7397508	-.065155
Stddev	.0006214	.039701	.060228	.0052233	.0023821	.000502
%RSD	9.052677	2.817072	.6887692	3.230353	.3220148	.7697842
#1	.0075436	1.430314	8.809344	.1634037	.7370012	-.065673
#2	.0063248	1.363523	8.733186	.1558321	.7410616	-.065120
#3	.0067241	1.434104	8.690442	.1658511	.7411897	-.064671

Elem	Li6707
Units	ppm
Avg	.0854834
Stddev	.0042010
%RSD	4.914384
#1	.0816532
#2	.0899763
#3	.0848205

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2265.782	27399.70	1394.399	1892.842	2494.771
Stddev	55.663	40.94	7.225	5.460	72.144
%RSD	2.456670	.1494090	.5181164	.2884724	2.891804
#1	2248.707	27355.85	1386.087	1887.845	2466.114
#2	2327.982	27436.91	1397.934	1898.670	2576.840
#3	2220.657	27406.33	1399.175	1892.011	2441.358

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-08 Acquired: 12/17/2024 19:12:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL09D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2421876	-.062480	2.270913	.0736411	.0346888	84.52210
Stddev	.0034707	.002587	.002592	.0009619	.0020081	.73372
%RSD	1.433068	4.141138	.1141258	1.306235	5.788833	.8680804
#1	.2430683	-.065383	2.273841	.0747117	.0355815	85.31720
#2	.2383613	-.060418	2.269984	.0728496	.0323892	83.87115
#3	.2451331	-.061640	2.268914	.0733618	.0360958	84.37796

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.461841	.0094190	.0080698	25.98435	.1661829	.1097627
Stddev	.011938	.0001876	.0001111	.23654	.0008169	.0006672
%RSD	.8166454	1.991435	1.377205	.9103279	.4915342	.6078206
#1	1.475588	.0096187	.0079775	26.25652	.1655392	.1103314
#2	1.454081	.0093918	.0080388	25.86814	.1671018	.1090283
#3	1.455855	.0092465	.0081931	25.82839	.1659076	.1099285

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4627849	183.9907	7.504762	17.14746	.1678264	.0055499
Stddev	.0088641	1.5541	.063807	.11177	.0009048	.0010133
%RSD	1.915378	.8446854	.8502197	.6518088	.5391284	18.25780
#1	.4563978	185.7120	7.578167	17.26654	.1668599	.0066932
#2	.4590519	182.6906	7.462580	17.04483	.1679660	.0047630
#3	.4729048	183.5696	7.473537	17.13100	.1686532	.0051933

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.241760	.2129511	1.656194	5.832742	F 11.74672	-.014043
Stddev	.399958	.0127964	.016591	.163643	.02830	.004069
%RSD	32.20898	6.009056	1.001770	2.805596	.2409590	28.97257
#1	.818106	.2206440	1.645275	6.021284	11.77589	-.018020
#2	1.294357	.1981794	1.675286	5.727606	11.71937	-.014219
#3	1.612818	.2200300	1.648020	5.749337	11.74489	-.009889

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-08 Acquired: 12/17/2024 19:12:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL09D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0064994	1.411858	8.599975	.1607972	.7350591	-.064938
Stddev	.0001587	.003259	.071066	.0020984	.0072852	.000773
%RSD	2.440978	.2308326	.8263546	1.305024	.9911082	1.189704
#1	.0063923	1.414969	8.682002	.1623285	.7429552	-.065761
#2	.0064242	1.412135	8.556934	.1616578	.7285983	-.064825
#3	.0066816	1.408469	8.560988	.1584053	.7336239	-.064229

Elem	Li6707
Units	ppm
Avg	.0847983
Stddev	.0057178
%RSD	6.742871
#1	.0911814
#2	.0830683
#3	.0801453

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2259.477	27372.51	1414.329	1892.370	2477.106
Stddev	7.424	39.15	14.477	3.504	10.219
%RSD	.3285603	.1430378	1.023565	.1851660	.4125321
#1	2251.463	27327.44	1397.863	1890.670	2466.500
#2	2260.850	27398.10	1425.057	1890.041	2477.929
#3	2266.119	27391.99	1420.067	1896.400	2486.888

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-07LX5 Acquired: 12/17/2024 19:16:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL09L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0523205	-.016237	.4803151	.0174044	.0051468	19.58627	.3409568
Stddev	.0018673	.002206	.0039459	.0031453	.0025473	.08241	.0009009
%RSD	3.568883	13.58632	.8215309	18.07214	49.49323	.4207490	.2642345
#1	.0506784	-.017346	.4758500	.0169875	.0027024	19.67965	.3404455
#2	.0543516	-.017668	.4833335	.0144883	.0077859	19.55545	.3404279
#3	.0519313	-.013696	.4817617	.0207374	.0049520	19.52372	.3419971

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023134	.0015711	6.120436	.0395594	.0243639	.1092055	43.00650
Stddev	.0001640	.0000971	.021802	.0006390	.0002943	.0018722	.20416
%RSD	7.087541	6.180472	.3562082	1.615337	1.208109	1.714376	.4747074
#1	.0025022	.0016832	6.095360	.0402616	.0241040	.1075620	43.17258
#2	.0022069	.0015141	6.131051	.0394049	.0246836	.1088110	43.06834
#3	.0022310	.0015160	6.134897	.0390119	.0243042	.1112435	42.77857

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.770341	3.991985	.0349073	.0010620	.5715254	.0540819	.3902469
Stddev	.004899	.039062	.0007625	.0006727	.4961802	.0055523	.0234397
%RSD	.2767110	.9785072	2.184403	63.33819	86.81682	10.26641	6.006366
#1	1.768663	4.033056	.0357722	.0011533	.0172942	.0580822	.4118609
#2	1.775858	3.955303	.0343318	.0003484	.9744012	.0477428	.3935481
#3	1.766502	3.987598	.0346181	.0016844	.7228808	.0564205	.3653316

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6913416	2.499945	-.004801	.0012265	.3030440	2.072286	.0329106
Stddev	.0618091	.020773	.001898	.0001886	.0036867	.007085	.0009372
%RSD	8.940464	.8309306	39.53746	15.38094	1.216554	.3418830	2.847610
#1	.6382367	2.476387	-.003177	.0011467	.3063955	2.080153	.0322626
#2	.7591890	2.515632	-.006888	.0010908	.3036414	2.066410	.0339852
#3	.6765990	2.507816	-.004338	.0014419	.2990950	2.070294	.0324841

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-07LX5 Acquired: 12/17/2024 19:16:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL09L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1650761	-.015195	.0046692
Stddev	.0005999	.000377	.0039844
%RSD	.3634180	2.480897	85.33345
#1	.1652918	-.015569	.0028063
#2	.1655384	-.015199	.0019575
#3	.1643982	-.014816	.0092439

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1955.757	23909.07	1227.595	1658.739	2457.029
Stddev	10.508	46.95	2.047	6.234	13.800
%RSD	.5372841	.1963663	.1667173	.3758211	.5616403
#1	1966.940	23867.02	1225.811	1651.952	2471.394
#2	1946.088	23900.46	1227.145	1660.058	2443.874
#3	1954.244	23959.73	1229.829	1664.209	2455.819

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-09 Acquired: 12/17/2024 19:20:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL09S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3381775	.0257447	2.393158	.2278749	.1766142	87.51436
Stddev	.0027186	.0070960	.009498	.0018477	.0014188	.35183
%RSD	.8038881	27.56306	.3968722	.8108441	.8033471	.4020275
#1	.3377791	.0239324	2.395771	.2299683	.1768626	87.40008
#2	.3356802	.0335712	2.382627	.2264717	.1750876	87.23388
#3	.3410733	.0197306	2.401076	.2271846	.1778925	87.90913

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.941768	.0967960	.1070213	26.16247	.5371987	1.100508
Stddev	.024621	.0005335	.0003123	.19952	.0016697	.003238
%RSD	.4982269	.5511698	.2917799	.7626045	.3108144	.2942578
#1	4.937600	.0970021	.1072294	26.08722	.5368269	1.101237
#2	4.919497	.0961902	.1066622	26.01152	.5357462	1.096967
#3	4.968207	.0971958	.1071722	26.38867	.5390229	1.103320

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8841282	185.9075	8.408444	17.14110	1.185922	.0734455
Stddev	.0049058	1.4412	.044934	.16924	.003089	.0006234
%RSD	.5548728	.7752431	.5343923	.9873064	.2605128	.8487698
#1	.8800632	185.3717	8.378886	17.09450	1.186889	.0729321
#2	.8827442	184.8110	8.386293	17.00005	1.182465	.0732653
#3	.8895774	187.5399	8.460153	17.32875	1.188412	.0741392

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.113047	1.091046	2.441767	5.845329	F 12.17355	-.022568
Stddev	.463213	.010127	.056858	.079785	.02983	.003161
%RSD	41.61668	.9281552	2.328555	1.364937	.2449992	14.00736
#1	.689769	1.091309	2.472645	5.754997	12.18583	-.025071
#2	1.041500	1.080791	2.376151	5.874819	12.13954	-.023617
#3	1.607870	1.101039	2.476505	5.906171	12.19527	-.019015

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-09 Acquired: 12/17/2024 19:20:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL09S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071664	1.471170	8.818032	.1667925	.7403349	-.066396
Stddev	.0005078	.007960	.039264	.0012542	.0134030	.000836
%RSD	7.086318	.5410574	.4452698	.7519530	1.810403	1.259116
#1	.0065818	1.477751	8.797316	.1671089	.7357613	-.066475
#2	.0074183	1.462323	8.793464	.1654103	.7298173	-.065523
#3	.0074989	1.473437	8.863315	.1678581	.7554261	-.067190

Elem	Li6707
Units	ppm
Avg	.0798895
Stddev	.0046392
%RSD	5.806998
#1	.0852023
#2	.0766397
#3	.0778264

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2230.904	27385.71	1404.113	1906.557	2439.016
Stddev	2.487	83.83	2.138	7.756	4.633
%RSD	.1114888	.3061186	.1522993	.4068083	.1899655
#1	2230.288	27289.51	1405.061	1901.017	2435.203
#2	2228.782	27443.18	1405.613	1915.421	2444.173
#3	2233.641	27424.42	1401.664	1903.232	2437.671

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: CCV050 Acquired: 12/17/2024 19:24:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: CCV050 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.951128	4.854511	24.48157	4.850271	4.805905	386.6282	9.836083
Stddev	.024993	.044950	.13827	.025460	.038472	4.3051	.112882
%RSD	.5047901	.9259349	.5647852	.5249154	.8005077	1.113504	1.147634
#1	4.935237	4.804110	24.33792	4.828544	4.769041	391.0936	9.959530
#2	4.938211	4.868975	24.49304	4.843983	4.802870	386.2873	9.810594
#3	4.979936	4.890448	24.61375	4.878286	4.845804	382.5036	9.738124

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5027359	2.503728	393.9810	15.30240	2.487686	14.50776	395.0365
Stddev	.0037311	.015412	4.8630	.09783	.014990	.16160	4.6455
%RSD	.7421500	.6155521	1.234313	.6393274	.6025520	1.113890	1.175969
#1	.5052922	2.487328	398.7128	15.29647	2.471616	14.69390	399.9886
#2	.5044610	2.505945	394.2335	15.20767	2.490153	14.42600	394.3460
#3	.4984544	2.517912	388.9967	15.40306	2.501289	14.40338	390.7748

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.76818	390.0794	2.486297	1.277839	384.5591	2.494900	16.29287
Stddev	.19002	4.7122	.014158	.007347	4.4131	.021326	.25195
%RSD	1.286670	1.208000	.5694578	.5749447	1.147570	.8547645	1.546381
#1	14.97262	395.1746	2.471844	1.276493	389.5812	2.513211	16.27328
#2	14.73496	389.1852	2.486906	1.271257	382.7958	2.500004	16.05129
#3	14.59696	385.8783	2.500141	1.285765	381.3003	2.471486	16.55404

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	148.6042	4.923801	4.698964	4.673382	4.931705	4.799806	4.956573
Stddev	1.5930	.037171	.061513	.033509	.039928	.044232	.030765
%RSD	1.071950	.7549329	1.309073	.7170144	.8096161	.9215375	.6206892
#1	150.3595	4.887253	4.743973	4.639122	4.887159	4.828418	4.923823
#2	148.2028	4.922584	4.724045	4.674939	4.943684	4.822139	4.961031
#3	147.2503	4.961566	4.628872	4.706086	4.964272	4.748860	4.984866

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: CCV050 Acquired: 12/17/2024 19:24:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: CCV050 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	4.858797	4.636383	4.860120
Stddev	.054324	.059008	.045699
%RSD	1.118052	1.272726	.9402902
#1	4.920117	4.702182	4.911257
#2	4.839581	4.618810	4.845828
#3	4.816692	4.588157	4.823274

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1528.596	20601.39	1150.976	1338.920	1975.288
Stddev	8.314	163.19	9.204	15.121	8.922
%RSD	.5439021	.7921376	.7997039	1.129380	.4516706
#1	1538.170	20629.73	1143.941	1344.123	1985.590
#2	1523.193	20748.55	1147.593	1350.753	1970.133
#3	1524.425	20425.88	1161.393	1321.884	1970.141

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: CCB050 Acquired: 12/17/2024 19:27:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: CCB050 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001647	.0051290	.0005669	-.001878	-.002150	.0107619	-.002556
Stddev	.003360	.0015696	.0019350	.007301	.002418	.0241950	.000297
%RSD	203.9555	30.60290	341.3077	388.8649	112.4275	224.8207	11.60609
#1	.002226	.0033176	.0016060	.006051	-.004926	-.003748	-.002782
#2	-.003776	.0060883	.0017603	-.008325	-.000501	.038693	-.002220
#3	-.003392	.0059811	-.001666	-.003359	-.001025	-.002659	-.002666

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000024	-.000003	-.080378	.0006789	-.000033	.0081684	-.017887
Stddev	.000089	.000081	.039255	.0013564	.000272	.0143169	.028494
%RSD	375.6429	2472.353	48.83818	199.7881	826.9435	175.2721	159.2983
#1	.000076	.000053	-.091521	.0011158	-.000346	.0139220	.011391
#2	-.000055	-.000097	-.036756	-.000842	.000136	-.008130	-.019526
#3	-.000093	.000034	-.112856	.001763	.000111	.018713	-.045526

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002297	.0169715	.0005165	.0008908	.1962557	-.000866	.0285437
Stddev	.001924	.0419531	.0005284	.0009953	.3484316	.011951	.0059178
%RSD	83.74272	247.1981	102.3057	111.7341	177.5396	1379.398	20.73232
#1	-.003599	.0541517	.0008920	-.000232	-.200781	-.001378	.0301607
#2	-.003205	.0252753	.0007453	.001666	.451132	.011332	.0219855
#3	-.000088	-.028513	-.000088	.001239	.338415	-.012553	.0334849

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.368982	.0012739	.0119494	-.000438	.0031459	.0005622	.0014362
Stddev	.027579	.0021659	.0012890	.000309	.0050655	.0006032	.0012701
%RSD	7.474253	170.0193	10.78743	70.58189	161.0188	107.2873	88.43473
#1	-.385936	.0004442	.0106592	-.000084	.0011687	.0005738	.0028993
#2	-.337159	.0037321	.0132373	-.000574	-.000633	.0011595	.0007916
#3	-.383850	-.000354	.0119517	-.000655	.008902	-.000047	.0006176

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: CCB050 Acquired: 12/17/2024 19:27:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: CCB050 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.001153	.0001967	-.002808
Stddev	.008047	.0001201	.005852
%RSD	698.0852	61.08254	208.3849
#1	-.009677	.0001213	.001734
#2	-.000093	.0003352	-.000747
#3	.006312	.0001335	-.009413

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1849.659	22809.48	1154.242	1576.403	2443.483
Stddev	1.454	101.52	1.282	13.570	3.431
%RSD	.0786260	.4450878	.1110270	.8608223	.1404304
#1	1849.917	22879.28	1155.324	1573.244	2446.244
#2	1848.094	22693.01	1154.574	1564.691	2439.641
#3	1850.968	22856.14	1152.827	1591.274	2444.564

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-10 Acquired: 12/17/2024 19:31:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL10 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1826376	-.078131	1.246286	.0858508	.0372400	87.74676	1.057337
Stddev	.0015288	.001598	.010634	.0040228	.0017895	.53540	.007632
%RSD	.8370647	2.045313	.8532454	4.685746	4.805251	.6101667	.7218509
#1	.1821136	-.077401	1.235765	.0818104	.0351766	87.22890	1.051157
#2	.1814397	-.079964	1.246065	.0898556	.0383661	88.29813	1.065868
#3	.1843595	-.077029	1.257029	.0858865	.0381774	87.71324	1.054985

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0106266	.0062778	23.03574	.1170173	.1313932	.2854579	208.5782
Stddev	.0001492	.0002169	.16807	.0003496	.0004003	.0087915	1.4147
%RSD	1.404256	3.455086	.7296186	.2987318	.3046498	3.079795	.6782820
#1	.0106738	.0060770	22.84519	.1173953	.1311727	.2916169	207.0409
#2	.0107465	.0062484	23.16292	.1167056	.1311518	.2753898	209.8254
#3	.0104595	.0065078	23.09909	.1169510	.1318553	.2893670	208.8684

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.253467	23.26045	.1587489	.0031764	1.129881	.2067179	.8591732
Stddev	.069260	.11582	.0018124	.0013949	.403490	.0025177	.0052333
%RSD	.7484800	.4979465	1.141691	43.91545	35.71086	1.217914	.6091100
#1	9.178561	23.12799	.1589517	.0026730	1.105187	.2096242	.8552609
#2	9.315185	23.34266	.1568436	.0047532	.739305	.2052017	.8651178
#3	9.266656	23.31071	.1604514	.0021031	1.545150	.2053280	.8571408

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.929164	8.370963	-.025037	.0057618	.9477539	8.955857	.1161593
Stddev	.025869	.052138	.001556	.0004368	.0072311	.019562	.0004154
%RSD	.5248121	.6228410	6.213269	7.581674	.7629753	.2184216	.3576161
#1	4.910995	8.331903	-.024517	.0052668	.9424693	8.935726	.1163462
#2	4.958782	8.350817	-.023808	.0060932	.9447975	8.957052	.1156833
#3	4.917715	8.430167	-.026786	.0059255	.9559947	8.974794	.1164485

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-10 Acquired: 12/17/2024 19:31:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL10 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.283002	-.116242	.0835021
Stddev	.009401	.000364	.0061617
%RSD	.7327308	.3134961	7.379077
#1	1.272397	-.115877	.0766831
#2	1.290313	-.116606	.0886700
#3	1.286295	-.116242	.0851533

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2435.238	29819.10	1519.239	2059.709	2398.523
Stddev	5.280	69.23	8.896	2.308	6.803
%RSD	.2168050	.2321671	.5855509	.1120697	.2836269
#1	2440.052	29778.60	1529.059	2057.045	2403.219
#2	2436.071	29779.67	1511.720	2061.106	2401.628
#3	2429.592	29899.04	1516.937	2060.976	2390.722

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-11 Acquired: 12/17/2024 19:35:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL11 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1915614	-.060321	.8097561	.0839518	.0338228	76.33906	1.150357
Stddev	.0046333	.004180	.0080295	.0042784	.0007520	.37654	.004387
%RSD	2.418687	6.929750	.9916001	5.096284	2.223490	.4932445	.3813747
#1	.1865749	-.062394	.8130781	.0882261	.0331767	76.77213	1.155349
#2	.1923759	-.063061	.8005986	.0839602	.0336434	76.08903	1.147114
#3	.1957334	-.055510	.8155915	.0796692	.0346484	76.15603	1.148607

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0095015	.0088538	22.14489	.1128629	.1452314	.2747129	190.4970
Stddev	.0000837	.0001544	.09583	.0010532	.0022374	.0033317	.6991
%RSD	.8804118	1.744471	.4327511	.9331296	1.540607	1.212777	.3669677
#1	.0095793	.0088227	22.24083	.1132250	.1472057	.2743764	191.3013
#2	.0094130	.0087172	22.04917	.1116764	.1428011	.2782000	190.0355
#3	.0095121	.0090214	22.14467	.1136872	.1456873	.2715623	190.1542

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.30904	19.09037	.2151960	.0039613	1.119590	.1694128	.6511822
Stddev	.04294	.09095	.0020402	.0007350	1.031022	.0030129	.0103093
%RSD	.3797336	.4764221	.9480698	18.55393	92.08926	1.778469	1.583160
#1	11.35860	19.07864	.2161694	.0047197	2.181495	.1664803	.6396162
#2	11.28582	19.00586	.2128514	.0039118	1.054762	.1725002	.6545258
#3	11.28271	19.18662	.2165673	.0032523	.122511	.1692577	.6594046

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.350852	7.086106	-.020147	.0043232	1.157627	7.711137	.0822510
Stddev	.111540	.075860	.002356	.0003731	.013535	.023045	.0015208
%RSD	2.563633	1.070542	11.69231	8.631366	1.169232	.2988492	1.849029
#1	4.374091	7.127030	-.020882	.0047524	1.159430	7.731005	.0810334
#2	4.448942	6.998572	-.022048	.0040761	1.143281	7.716534	.0817638
#3	4.229524	7.132715	-.017512	.0041410	1.170171	7.685873	.0839557

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-11 Acquired: 12/17/2024 19:35:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL11 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4594968	-.096514	.0778286
Stddev	.0027671	.000454	.0010435
%RSD	.6021948	.4709164	1.340766
#1	.4623850	-.097024	.0786839
#2	.4592362	-.096362	.0766660
#3	.4568693	-.096154	.0781360

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2954.367	36100.33	1840.343	2507.685	2411.761
Stddev	17.741	121.34	3.217	11.700	24.936
%RSD	.6005009	.3361187	.1747967	.4665469	1.033935
#1	2938.367	36108.56	1837.294	2517.905	2395.683
#2	2973.446	36217.35	1840.031	2510.227	2440.486
#3	2951.287	35975.09	1843.705	2494.924	2399.114

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-12 Acquired: 12/17/2024 19:39:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL12 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1168990	-.072977	.3917732	.0797398	.0336633	83.27623	.8939770
Stddev	.0052781	.008448	.0030407	.0038035	.0006938	.35540	.0036811
%RSD	4.515125	11.57618	.7761278	4.769924	2.060889	.4267776	.4117728
#1	.1163840	-.075738	.3902804	.0833096	.0344527	83.51580	.8976547
#2	.1224158	-.079699	.3897675	.0757392	.0333866	83.44500	.8939839
#3	.1118973	-.063494	.3952718	.0801706	.0331506	82.86788	.8902924

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0091169	.0048340	24.97642	.1240204	.1241776	.2988853	191.7176
Stddev	.0000878	.0001044	.20314	.0003924	.0004424	.0115700	.6533
%RSD	.9630139	2.158970	.8133205	.3164117	.3562909	3.871033	.3407754
#1	.0090782	.0049408	25.10080	.1244210	.1242961	.3121763	192.3983
#2	.0092174	.0048290	25.08645	.1236367	.1236879	.2934127	191.6588
#3	.0090551	.0047323	24.74200	.1240036	.1245486	.2910669	191.0957

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.750141	29.09810	.2222133	.0032567	1.089333	.1734581	.5597788
Stddev	.025147	.17603	.0006216	.0005423	.231069	.0073437	.0190593
%RSD	.3725407	.6049534	.2797189	16.65173	21.21197	4.233727	3.404790
#1	6.776895	29.30005	.2225824	.0035817	1.085344	.1762566	.5407729
#2	6.746539	29.01702	.2214956	.0026306	1.322371	.1651265	.5596725
#3	6.726990	28.97721	.2225618	.0035577	.860285	.1789911	.5788910

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.526397	7.998818	-.020566	.0019290	.9251941	8.091221	.0465230
Stddev	.060032	.036060	.002606	.0001585	.0037956	.026833	.0013621
%RSD	1.326274	.4508123	12.67171	8.218453	.4102468	.3316260	2.927902
#1	4.587245	7.973299	-.020093	.0018704	.9208116	8.098316	.0471618
#2	4.524732	7.983084	-.023375	.0021085	.9274263	8.113793	.0474483
#3	4.467215	8.040071	-.018228	.0018082	.9273444	8.061554	.0449588

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-12 Acquired: 12/17/2024 19:39:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL12 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6046947	-.092618	.1168200
Stddev	.0040618	.000108	.0011048
%RSD	.6717164	.1168293	.9456822
#1	.6010154	-.092676	.1155562
#2	.6090534	-.092685	.1173020
#3	.6040154	-.092493	.1176019

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2758.729	33663.65	1720.366	2341.003	2422.410
Stddev	7.380	271.18	4.600	14.575	5.025
%RSD	.2674974	.8055442	.2673866	.6225963	.2074323
#1	2750.317	33828.94	1722.191	2350.749	2419.979
#2	2761.761	33811.32	1715.134	2348.012	2428.188
#3	2764.110	33350.69	1723.774	2324.247	2419.063

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-13 Acquired: 12/17/2024 19:43:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL13 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1238811	-.070264	.3762625	.0874379	.0365358	83.74076	.8220370
Stddev	.0029560	.002726	.0014995	.0044636	.0002068	.37666	.0065150
%RSD	2.386115	3.880263	.3985299	5.104916	.5659638	.4497967	.7925486
#1	.1248558	-.070319	.3775176	.0865259	.0365606	83.71818	.8210685
#2	.1205609	-.067510	.3766679	.0922871	.0367291	84.12820	.8289821
#3	.1262267	-.072962	.3746020	.0835008	.0363178	83.37589	.8160605

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0085480	.0043785	24.76989	.1303097	.1377542	.3951619	202.0886
Stddev	.0000943	.0002281	.16604	.0011186	.0010550	.0109596	1.4282
%RSD	1.102694	5.208497	.6703207	.8584198	.7658287	2.773441	.7067436
#1	.0086441	.0045863	24.72993	.1291420	.1386847	.4071376	201.2051
#2	.0085441	.0041345	24.95226	.1313717	.1366081	.3927165	203.7363
#3	.0084557	.0044147	24.62748	.1304154	.1379700	.3856316	201.3243

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.58450	34.34096	.2278179	.0040494	1.373991	.1806516	.6073839
Stddev	.07918	.30581	.0009759	.0004618	.740102	.0066197	.0046679
%RSD	.7481162	.8905133	.4283531	11.40422	53.86512	3.664362	.7685169
#1	10.55620	34.11935	.2288955	.0038571	2.031540	.1850988	.6052211
#2	10.67395	34.68985	.2269937	.0045763	.572488	.1838121	.6127408
#3	10.52335	34.21368	.2275646	.0037149	1.517945	.1730440	.6041897

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.998043	7.221185	-.021431	.0025605	.7391399	6.878279	.0563883
Stddev	.210487	.022349	.000760	.0004781	.0037046	.028813	.0011168
%RSD	4.211388	.3094942	3.546616	18.67366	.5012001	.4189037	1.980560
#1	5.075654	7.241110	-.021386	.0030905	.7377466	6.852374	.0551502
#2	5.158705	7.197020	-.020694	.0024296	.7433391	6.909312	.0573198
#3	4.759770	7.225425	-.022213	.0021615	.7363340	6.873151	.0566949

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-13 Acquired: 12/17/2024 19:43:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL13 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.047197	-.100699	.1276078
Stddev	.010028	.000456	.0048524
%RSD	.9575975	.4525885	3.802608
#1	1.037415	-.100233	.1248332
#2	1.057454	-.101143	.1247794
#3	1.046722	-.100721	.1332108

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2531.615	31247.95	1602.494	2165.865	2397.354
Stddev	2.352	220.69	7.636	9.407	1.327
%RSD	.0929138	.7062594	.4765008	.4343112	.0553709
#1	2532.322	31487.95	1610.951	2175.469	2396.055
#2	2528.990	31053.76	1596.105	2156.669	2398.708
#3	2533.532	31202.15	1600.426	2165.457	2397.298

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-14 Acquired: 12/17/2024 19:47:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL14 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1275961	-.056355	6.447294	.0649991	.0444794	62.46109
Stddev	.0032302	.000987	.036265	.0011330	.0007394	.29628
%RSD	2.531567	1.750538	.5624847	1.743079	1.662260	.4743401
#1	.1262652	-.055782	6.431005	.0652232	.0440281	62.71039
#2	.1252439	-.055788	6.488848	.0637709	.0440775	62.13354
#3	.1312791	-.057494	6.422030	.0660034	.0453327	62.53932

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.629613	.0078275	.0244369	43.33097	.2004414	.0942996
Stddev	.020737	.0000472	.0001539	.29952	.0043049	.0007250
%RSD	.4479239	.6025088	.6297397	.6912404	2.147729	.7687748
#1	4.645175	.0078485	.0244555	43.51159	.2054114	.0935875
#2	4.606071	.0078604	.0245807	42.98523	.1978753	.0950368
#3	4.637593	.0077734	.0242746	43.49609	.1980374	.0942744

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7966707	159.6262	4.786920	13.96117	.1750403	.0088842
Stddev	.0061835	.9246	.025951	.14659	.0009869	.0008726
%RSD	.7761714	.5792312	.5421183	1.050005	.5638039	9.821507
#1	.7897020	159.6490	4.804164	14.07528	.1756709	.0080548
#2	.8015018	158.6903	4.757075	13.79584	.1755470	.0088034
#3	.7988083	160.5391	4.799522	14.01240	.1739030	.0097943

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.019232	.2351054	5.120137	4.706870	F 16.62871	-.007170
Stddev	.337721	.0082182	.120794	.196500	.08139	.003828
%RSD	33.13484	3.495538	2.359188	4.174759	.4894319	53.38610
#1	1.326366	.2425660	5.257396	4.650718	16.59757	-.002765
#2	.657562	.2262964	5.072980	4.925335	16.72107	-.009687
#3	1.073770	.2364540	5.030035	4.544558	16.56749	-.009057

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-14 Acquired: 12/17/2024 19:47:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL14 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0100408	4.473672	7.359656	.4370092	.7209832	.0532740
Stddev	.0004773	.029378	.069230	.0024484	.0048995	.0002539
%RSD	4.753218	.6566858	.9406632	.5602584	.6795622	.4764926
#1	.0098408	4.478525	7.321504	.4377670	.7222351	.0530504
#2	.0105856	4.500320	7.317897	.4389891	.7155792	.0535499
#3	.0096961	4.442169	7.439569	.4342715	.7251354	.0532217

Elem	Li6707
Units	ppm
Avg	.0740051
Stddev	.0016079
%RSD	2.172706
#1	.0755648
#2	.0740977
#3	.0723529

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2105.363	25753.21	1333.711	1777.592	2430.928
Stddev	7.114	396.95	8.805	30.732	7.982
%RSD	.3378760	1.541370	.6602166	1.728842	.3283498
#1	2107.169	25300.25	1342.232	1744.102	2436.813
#2	2097.520	25918.90	1334.255	1784.175	2421.843
#3	2111.399	26040.47	1324.646	1804.499	2434.128

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-15 Acquired: 12/17/2024 19:51:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL15 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1638819	-.058232	8.710530	.0676130	.0413602	77.97573
Stddev	.0068360	.003798	.064500	.0041702	.0013897	.76232
%RSD	4.171307	6.522321	.7404817	6.167690	3.359866	.9776400
#1	.1603640	-.062350	8.636060	.0693922	.0410566	78.51600
#2	.1717604	-.057483	8.746816	.0705985	.0428765	78.30744
#3	.1595212	-.054865	8.748713	.0628484	.0401474	77.10375

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.462536	.0085751	.0255268	36.69272	.2684637	.1192716
Stddev	.045324	.0000740	.0001749	.36524	.0018639	.0007862
%RSD	1.015661	.8626248	.6851860	.9954122	.6942880	.6591334
#1	4.500723	.0084904	.0253286	36.95071	.2685376	.1185479
#2	4.474436	.0086081	.0255923	36.85266	.2702895	.1191589
#3	4.412449	.0086269	.0256596	36.27479	.2665639	.1201080

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9220884	168.5520	7.275533	15.54654	.2268987	.0108522
Stddev	.0159821	1.5890	.086837	.12851	.0012428	.0004976
%RSD	1.733250	.9427068	1.193552	.8266288	.5477496	4.584763
#1	.9395810	169.6880	7.336938	15.65989	.2255516	.0112804
#2	.9184349	169.2317	7.313479	15.57280	.2271436	.0103064
#3	.9082494	166.7362	7.176180	15.40692	.2280008	.0109698

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.405884	.3028124	4.898654	5.269124	F 19.88664	-.005021
Stddev	.066993	.0066988	.034996	.124873	.13402	.000659
%RSD	4.765194	2.212202	.7144056	2.369900	.6739023	13.12692
#1	1.373439	.2956289	4.899437	5.345182	19.73236	-.004780
#2	1.361291	.3039199	4.933252	5.337182	19.95330	-.005766
#3	1.482923	.3088885	4.863273	5.125007	19.97425	-.004516

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-15 Acquired: 12/17/2024 19:51:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL15 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0136733	3.987332	7.740225	1.161149	1.035510	.0297858
Stddev	.0004967	.035143	.049158	.009828	.012839	.0008367
%RSD	3.632478	.8813588	.6350932	.8463917	1.239844	2.809165
#1	.0131366	3.949726	7.784302	1.149850	1.045982	.0306970
#2	.0141168	3.992930	7.749160	1.167717	1.039362	.0296084
#3	.0137665	4.019339	7.687213	1.165879	1.021187	.0290519

Elem	Li6707
Units	ppm
Avg	.0963266
Stddev	.0053327
%RSD	5.536063
#1	.0985633
#2	.0902397
#3	.1001766

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2137.805	26421.10	1364.578	1821.249	2419.035
Stddev	13.744	184.43	9.664	13.736	18.849
%RSD	.6429097	.6980443	.7081903	.7541858	.7791916
#1	2153.643	26572.49	1359.538	1833.660	2440.790
#2	2130.770	26215.69	1358.476	1806.491	2408.728
#3	2129.003	26475.11	1375.720	1823.595	2407.587

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-16 Acquired: 12/17/2024 19:55:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL16 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6237296	-.238278	15.03964	.2196291	.1189959	94.07917
Stddev	.0033499	.001113	.01338	.0071680	.0013776	.17553
%RSD	.5370797	.4669454	.0889757	3.263689	1.157691	.1865757
#1	.6274331	-.237578	15.02685	.2168900	.1192047	94.21872
#2	.6209107	-.239561	15.05354	.2277628	.1202571	93.88210
#3	.6228450	-.237694	15.03853	.2142346	.1175258	94.13670

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.65393	.0159259	.0564679	34.97287	.3464453	.1521347
Stddev	.00748	.0003769	.0002944	.10846	.0017384	.0010632
%RSD	.0591321	2.366428	.5213110	.3101291	.5017865	.6988623
#1	12.65830	.0162324	.0563944	35.07437	.3447837	.1509070
#2	12.64529	.0155051	.0562173	34.98566	.3463007	.1527428
#3	12.65819	.0160400	.0567921	34.85858	.3482515	.1527542

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.761434	506.9065	7.443077	15.18442	.3117693	.0183542
Stddev	.015138	.6375	.015597	.12871	.0006620	.0011184
%RSD	.8594350	.1257725	.2095475	.8476520	.2123503	6.093292
#1	1.772024	507.4224	7.450514	15.28220	.3122055	.0194893
#2	1.744095	506.1937	7.453564	15.03860	.3120947	.0183200
#3	1.768184	507.1034	7.425154	15.23246	.3110075	.0172533

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.729144	.4240645	14.65964	5.731471	F 18.26570	-.042453
Stddev	.161262	.0027526	.02671	.096658	.00929	.001363
%RSD	5.908875	.6491092	.1821956	1.686437	.0508484	3.210689
#1	2.817254	.4262783	14.64388	5.838260	18.26521	-.043595
#2	2.827154	.4249328	14.69048	5.706182	18.25667	-.042821
#3	2.543022	.4209824	14.64456	5.649972	18.27522	-.040944

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-16 Acquired: 12/17/2024 19:55:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL16 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0406616	5.731347	8.600979	1.687783	1.000182	-.093349
Stddev	.0004748	.010622	.029972	.001834	.005306	.001174
%RSD	1.167557	.1853356	.3484757	.1086455	.5305261	1.257997
#1	.0405887	5.726292	8.634938	1.689066	.996951	-.094595
#2	.0411686	5.743552	8.589781	1.688600	.997289	-.092263
#3	.0402275	5.724196	8.578218	1.685682	1.006306	-.093189

Elem	Li6707
Units	ppm
Avg	.1087375
Stddev	.0047162
%RSD	4.337229
#1	.1078597
#2	.1045219
#3	.1138309

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2110.445	25881.18	1334.813	1781.776	2413.970
Stddev	7.411	11.98	5.281	.136	9.321
%RSD	.3511559	.0462780	.3956457	.0076367	.3861469
#1	2107.847	25874.31	1329.162	1781.859	2411.640
#2	2104.683	25874.21	1335.655	1781.619	2406.035
#3	2118.805	25895.01	1339.623	1781.850	2424.236

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-17 Acquired: 12/17/2024 19:58:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL17 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1405986	-.061644	4.029388	.0671280	.0312879	92.18221	3.633743
Stddev	.0045385	.002809	.097103	.0043248	.0017936	.28906	.008222
%RSD	3.228016	4.557397	2.409880	6.442671	5.732401	.3135779	.2262754
#1	.1398216	-.063538	3.964150	.0665426	.0326503	92.51500	3.642786
#2	.1454755	-.062977	4.140982	.0631256	.0319576	92.03798	3.631729
#3	.1364987	-.058416	3.983032	.0717156	.0292559	91.99364	3.626716

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0078837	.0228105	27.40314	.1953542	.1035234	.5997001	160.5488
Stddev	.0001789	.0006363	.15946	.0006373	.0025456	.0147114	.1909
%RSD	2.269648	2.789671	.5819158	.3262161	2.458984	2.453133	.1189084
#1	.0079483	.0222414	27.58409	.1960892	.1021781	.6096674	160.6513
#2	.0080213	.0234975	27.28317	.1949559	.1064594	.6066293	160.6666
#3	.0076814	.0226926	27.34215	.1950175	.1019327	.5828036	160.3285

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.821191	16.01333	.1817287	.0169472	1.063780	.2324471	6.200055
Stddev	.001071	.04304	.0032208	.0003564	.496930	.0056413	.080501
%RSD	.0183972	.2687735	1.772337	2.103038	46.71362	2.426910	1.298384
#1	5.822252	15.99463	.1792331	.0166074	.996221	.2387549	6.181461
#2	5.821209	16.06256	.1853645	.0169160	1.591033	.2278849	6.288226
#3	5.820110	15.98280	.1805884	.0173182	.604086	.2307017	6.130479

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.875437	9.901236	-.001712	.0119159	2.483535	8.969342	.2857383
Stddev	.219338	.238755	.002078	.0008462	.049886	.051982	.0050542
%RSD	5.659686	2.411365	121.3570	7.101223	2.008676	.5795534	1.768811
#1	4.054067	9.736735	-.003941	.0111088	2.447489	9.028500	.2841579
#2	3.941612	10.17508	.000172	.0127964	2.540470	8.930969	.2913939
#3	3.630631	9.79189	-.001368	.0118424	2.462647	8.948555	.2816632

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-17 Acquired: 12/17/2024 19:58:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL17 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7950296	.0260613	.1270674
Stddev	.0056635	.0004259	.0035922
%RSD	.7123680	1.634091	2.827005
#1	.8005403	.0265108	.1258288
#2	.7892247	.0260092	.1242584
#3	.7953239	.0256638	.1311150

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2103.852	26211.09	1350.057	1816.235	2449.255
Stddev	35.692	129.39	6.853	6.142	50.934
%RSD	1.696508	.4936633	.5076205	.3381946	2.079557
#1	2125.675	26344.21	1342.287	1822.436	2480.902
#2	2062.663	26085.78	1355.240	1810.153	2390.500
#3	2123.218	26203.27	1352.646	1816.115	2476.363

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-18 Acquired: 12/17/2024 20:02:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL18 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1958661	-.081691	1.336782	.1276568	.0506759	132.6342	1.625552
Stddev	.0055739	.004958	.004021	.0031484	.0021668	.5634	.007445
%RSD	2.845786	6.069082	.3008222	2.466313	4.275809	.4247606	.4580197
#1	.1955109	-.077348	1.341280	.1310631	.0517029	131.9997	1.617142
#2	.1904782	-.087093	1.333533	.1270537	.0481865	133.0758	1.631303
#3	.2016091	-.080632	1.335534	.1248535	.0521382	132.8272	1.628210

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0131116	.0076042	20.03081	.1619387	.1582067	.4048630	259.0740
Stddev	.0003443	.0001572	.10502	.0010910	.0012785	.0204386	1.4391
%RSD	2.625936	2.067490	.5242717	.6736938	.8080918	5.048265	.5554631
#1	.0127242	.0077748	19.91005	.1613368	.1591324	.3918028	257.4306
#2	.0133826	.0075726	20.10078	.1612813	.1567480	.4284169	260.1085
#3	.0132281	.0074652	20.08159	.1631981	.1587398	.3943693	259.6829

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.72133	24.34964	.1975976	.0065689	1.184019	.2621370	1.617280
Stddev	.18036	.09732	.0007905	.0004032	.620486	.0069661	.010005
%RSD	.7937829	.3996751	.4000565	6.138655	52.40507	2.657431	.6186070
#1	22.51335	24.26078	.1984759	.0063821	.561357	.2542485	1.624212
#2	22.83459	24.33448	.1969431	.0070317	1.802305	.2647189	1.605811
#3	22.81606	24.45364	.1973738	.0062930	1.188394	.2674435	1.621818

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.782758	4.695358	-.029673	.0202112	.9058428	10.46700	.0650954
Stddev	.049498	.020712	.000221	.0003507	.0014035	.07163	.0005016
%RSD	.8559498	.4411171	.7445620	1.735354	.1549410	.6843292	.7704963
#1	5.725774	4.718950	-.029642	.0198323	.9048266	10.38430	.0645484
#2	5.807436	4.680165	-.029908	.0202768	.9052575	10.50734	.0655337
#3	5.815066	4.686959	-.029469	.0205245	.9074442	10.50937	.0652041

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-18 Acquired: 12/17/2024 20:02:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL18 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6244286	-.154178	.1111404
Stddev	.0043041	.000596	.0056345
%RSD	.6892949	.3863243	5.069689
#1	.6225709	-.153495	.1046611
#2	.6293496	-.154453	.1138693
#3	.6213653	-.154587	.1148908

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2152.220	26249.83	1358.675	1831.959	2427.201
Stddev	3.089	120.49	9.234	11.073	7.550
%RSD	.1435448	.4590189	.6796211	.6044287	.3110403
#1	2149.221	26314.96	1367.412	1841.179	2418.485
#2	2152.048	26110.79	1349.014	1819.678	2431.649
#3	2155.392	26323.75	1359.600	1835.022	2431.471

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-19 Acquired: 12/17/2024 20:06:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL19 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1660558	-.078335	.3215667	.0776433	.0309189	57.14704	.6260671
Stddev	.0040245	.008799	.0022336	.0013519	.0016680	.10010	.0018690
%RSD	2.423572	11.23312	.6945875	1.741177	5.394686	.1751610	.2985269
#1	.1614088	-.070819	.3229563	.0761272	.0302132	57.03326	.6239321
#2	.1683616	-.076171	.3189902	.0787234	.0328238	57.22154	.6274078
#3	.1683970	-.088014	.3227535	.0780794	.0297199	57.18633	.6268613

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0095467	.0047577	14.21381	.0865905	.1117950	.2625479	181.7641
Stddev	.0000796	.0000702	.07325	.0005135	.0007611	.0071973	.7916
%RSD	.8343682	1.475031	.5153441	.5929958	.6808075	2.741327	.4355101
#1	.0094998	.0047842	14.14405	.0867259	.1119528	.2708409	180.8660
#2	.0095016	.0046782	14.29011	.0870227	.1124648	.2588706	182.3603
#3	.0096387	.0048108	14.20728	.0860229	.1109673	.2579321	182.0660

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.744733	17.52404	.1841397	.0023730	1.012826	.1465604	.6177776
Stddev	.025109	.13357	.0009401	.0000279	.455733	.0053030	.0132259
%RSD	.5292016	.7621859	.5105434	1.177872	44.99620	3.618283	2.140885
#1	4.719987	17.43132	.1839100	.0024043	1.273498	.1404372	.6329884
#2	4.770190	17.67713	.1833357	.0023643	1.278382	.1495786	.6113547
#3	4.744021	17.46367	.1851734	.0023504	.486598	.1496652	.6089897

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.439643	3.532563	-.021329	.0035871	.6278987	6.699753	.0377186
Stddev	.118947	.001958	.000098	.0001282	.0092054	.064220	.0005898
%RSD	1.847104	.0554169	.4617270	3.575076	1.466072	.9585502	1.563574
#1	6.433957	3.533300	-.021346	.0036377	.6204500	6.635781	.0378552
#2	6.561332	3.530344	-.021418	.0034413	.6250559	6.764219	.0382280
#3	6.323642	3.534046	-.021223	.0036823	.6381902	6.699259	.0370725

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-19 Acquired: 12/17/2024 20:06:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL19 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3797662	-.120855	.0705195
Stddev	.0013432	.000300	.0042170
%RSD	.3536872	.2481909	5.979903
#1	.3784395	-.120510	.0675149
#2	.3797338	-.121000	.0687032
#3	.3811253	-.121055	.0753402

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3153.007	38745.91	1986.319	2699.619	2414.738
Stddev	2.413	115.31	10.876	11.555	2.214
%RSD	.0765172	.2976064	.5475567	.4280093	.0917067
#1	3155.175	38679.23	1998.801	2691.184	2415.421
#2	3153.437	38879.06	1981.276	2712.789	2416.531
#3	3150.408	38679.44	1978.880	2694.884	2412.263

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-20 Acquired: 12/17/2024 20:10:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL20 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1186090	-.018855	.8884599	.0724212	.0280773	67.37910	1.196525
Stddev	.0024034	.002170	.0052211	.0058843	.0031169	.50103	.011799
%RSD	2.026330	11.51087	.5876600	8.125130	11.10112	.7435919	.9861438
#1	.1160077	-.016542	.8844201	.0790869	.0259090	67.26464	1.194515
#2	.1207470	-.020847	.8866041	.0679474	.0266738	66.94521	1.185859
#3	.1190722	-.019175	.8943554	.0702293	.0316492	67.92745	1.209200

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0075407	.0128732	57.55530	.1178593	.1384117	.2452391	178.4951
Stddev	.0001344	.0001165	.36529	.0006488	.0009918	.0049717	1.7791
%RSD	1.782556	.9050147	.6346782	.5505216	.7165667	2.027268	.9967128
#1	.0074460	.0129198	57.39677	.1186043	.1391230	.2463434	177.8155
#2	.0074815	.0129593	57.29606	.1174182	.1372787	.2398081	177.1560
#3	.0076945	.0127407	57.97308	.1175554	.1388333	.2495657	180.5138

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.56931	22.39678	.2700590	.0057208	1.214141	.1432881	1.324351
Stddev	.18868	.32075	.0017415	.0007446	.690102	.0070748	.008188
%RSD	.9641698	1.432139	.6448650	13.01545	56.83877	4.937444	.6182308
#1	19.49084	22.31999	.2713776	.0053901	.745674	.1370137	1.329846
#2	19.43253	22.12140	.2680848	.0051988	.890121	.1418946	1.328266
#3	19.78457	22.74896	.2707146	.0065735	2.006626	.1509559	1.314940

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.684537	6.682526	-.007226	.0078558	1.021140	7.626378	.0582839
Stddev	.111170	.013544	.000724	.0005108	.002880	.071518	.0008514
%RSD	1.446665	.2026819	10.01398	6.502219	.2820397	.9377749	1.460788
#1	7.662496	6.688198	-.007374	.0076617	1.017910	7.621794	.0577209
#2	7.586039	6.667068	-.006440	.0084353	1.023440	7.557263	.0578674
#3	7.805076	6.692312	-.007864	.0074706	1.022069	7.700079	.0592633

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-20 Acquired: 12/17/2024 20:10:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL20 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5270051	-.050098	.1048047
Stddev	.0043584	.000765	.0067350
%RSD	.8270194	1.527077	6.426281
#1	.5238140	-.049558	.1051858
#2	.5252304	-.049762	.0978872
#3	.5319709	-.050973	.1113411

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2647.396	32666.33	1673.564	2259.097	2349.798
Stddev	.935	50.01	12.157	3.264	.367
%RSD	.0353314	.1530953	.7263966	.1444663	.0156178
#1	2646.789	32638.03	1673.943	2260.542	2349.750
#2	2648.473	32636.88	1685.526	2255.360	2349.457
#3	2646.926	32724.07	1661.222	2261.388	2350.186

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-21 Acquired: 12/17/2024 20:14:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL21 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1222723	-.031792	2.433277	.0490781	.0269638	62.30406	1.396480
Stddev	.0027837	.006032	.012440	.0032217	.0017777	.15508	.005565
%RSD	2.276641	18.97427	.5112340	6.564483	6.593089	.2489067	.3985333
#1	.1220194	-.025432	2.429407	.0492048	.0278054	62.18789	1.391921
#2	.1251739	-.037432	2.423232	.0457950	.0249215	62.48016	1.402682
#3	.1196238	-.032513	2.447191	.0522347	.0281644	62.24414	1.394838

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0080221	.0116233	99.06958	.1567900	.1033103	.4133236	153.0933
Stddev	.0001444	.0001231	.17335	.0013813	.0004091	.0047647	.7669
%RSD	1.799620	1.058784	.1749751	.8809790	.3960077	1.152779	.5009099
#1	.0078554	.0115862	98.87059	.1551956	.1029308	.4120359	152.6685
#2	.0081011	.0115230	99.15036	.1576236	.1032564	.4185998	153.9786
#3	.0081097	.0117606	99.18780	.1575509	.1037436	.4093351	152.6329

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.047055	37.34047	.1970070	.0056927	1.183758	.1682754	2.189220
Stddev	.038901	.32675	.0008527	.0007408	.876556	.0107840	.002995
%RSD	.4834173	.8750569	.4328267	13.01353	74.04860	6.408534	.1367917
#1	8.029525	37.29190	.1976455	.0053422	2.125447	.1562514	2.186200
#2	8.091636	37.68879	.1960387	.0065437	1.034266	.1714837	2.189271
#3	8.020004	37.04073	.1973370	.0051922	.391561	.1770912	2.192188

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.038038	9.265856	.0135023	.0081271	4.284591	9.025592	.1643954
Stddev	.123106	.046527	.0014215	.0004119	.019456	.066560	.0020661
%RSD	1.749159	.5021298	10.52814	5.068568	.4541014	.7374613	1.256789
#1	6.904260	9.239077	.0127824	.0085180	4.283088	9.010635	.1644542
#2	7.063299	9.238910	.0151397	.0076970	4.265929	9.098358	.1664315
#3	7.146554	9.319580	.0125847	.0081662	4.304755	8.967783	.1623005

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-21 Acquired: 12/17/2024 20:14:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL21 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6460987	.0787894	.0804035
Stddev	.0124284	.0003056	.0013418
%RSD	1.923605	.3878190	1.668798
#1	.6318901	.0784639	.0792062
#2	.6514562	.0790700	.0801504
#3	.6549499	.0788342	.0818537

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2154.688	26411.28	1371.182	1821.245	2380.651
Stddev	9.134	79.41	9.259	5.776	13.764
%RSD	.4239158	.3006515	.6752653	.3171559	.5781799
#1	2158.513	26320.46	1368.653	1816.758	2385.811
#2	2161.287	26467.61	1363.451	1819.215	2391.089
#3	2144.263	26445.76	1381.444	1827.762	2365.052

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-22 Acquired: 12/17/2024 20:18:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL22 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1498198	-.035381	2.867900	.0641349	.0339991	67.29532
Stddev	.0062718	.004523	.013459	.0030652	.0033987	.11217
%RSD	4.186223	12.78483	.4693139	4.779343	9.996387	.1666891
#1	.1465772	-.032164	2.856154	.0670731	.0378902	67.19445
#2	.1570491	-.040553	2.864959	.0609567	.0324958	67.41613
#3	.1458331	-.033427	2.882586	.0643750	.0316113	67.27537

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.566993	.0087587	.0138612	132.0167	.1693209	.1406318
Stddev	.005770	.0002335	.0002044	.2087	.0012415	.0003869
%RSD	.3682244	2.665339	1.474512	.1580707	.7332201	.2751414
#1	1.562194	.0085906	.0137466	131.9312	.1706454	.1410338
#2	1.573395	.0090253	.0137398	132.2545	.1691337	.1405997
#3	1.565390	.0086604	.0140971	131.8643	.1681837	.1402619

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4700081	179.8471	10.16537	44.03926	.2339083	.0062938
Stddev	.0075207	.5390	.03859	.30414	.0005196	.0007400
%RSD	1.600122	.2996868	.3796603	.6906094	.2221303	11.75708
#1	.4774812	179.2458	10.12502	43.70580	.2342278	.0069043
#2	.4701025	180.2867	10.20193	44.30140	.2341884	.0054709
#3	.4624407	180.0089	10.16916	44.11058	.2333088	.0065062

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.086511	.1891660	2.004674	6.389765	F 10.14202	.0148384
Stddev	.510048	.0120592	.026249	.075197	.02171	.0011376
%RSD	24.44501	6.374943	1.309389	1.176831	.2140346	7.666300
#1	2.019578	.2021667	2.013749	6.310905	10.12814	.0142239
#2	2.626720	.1783458	1.975092	6.397725	10.13089	.0141402
#3	1.613234	.1869855	2.025181	6.460666	10.16704	.0161510

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5057-22 Acquired: 12/17/2024 20:18:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL22 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0097741	4.372827	8.677637	.1812571	.8416695	.1119694
Stddev	.0001905	.017234	.058536	.0017142	.0024636	.0012081
%RSD	1.949165	.3941055	.6745616	.9457020	.2926988	1.078991
#1	.0097710	4.360361	8.635455	.1803671	.8445129	.1110228
#2	.0095852	4.365628	8.744466	.1801710	.8403209	.1133302
#3	.0099662	4.392493	8.652989	.1832332	.8401747	.1115552

Elem	Li6707
Units	ppm
Avg	.0900086
Stddev	.0017980
%RSD	1.997617
#1	.0920227
#2	.0885649
#3	.0894384

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2199.428	26860.12	1421.637	1863.227	2365.504
Stddev	1.304	68.53	8.322	6.752	3.840
%RSD	.0592784	.2551482	.5853495	.3623624	.1623305
#1	2199.254	26789.27	1429.362	1862.370	2366.944
#2	2200.811	26926.08	1412.826	1870.367	2368.416
#3	2198.220	26865.01	1422.722	1856.945	2361.153

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-01 Acquired: 12/17/2024 20:21:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKR8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1354984	-.028802	1.955554	.0514259	.0237614	70.05835
Stddev	.0032540	.005605	.002645	.0029795	.0000999	.46456
%RSD	2.401516	19.46073	.1352789	5.793820	.4204814	.6630974
#1	.1348968	-.032087	1.956300	.0482807	.0238703	70.36604
#2	.1325872	-.031988	1.957747	.0542060	.0237399	70.28504
#3	.1390113	-.022330	1.952616	.0517911	.0236740	69.52397

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.651696	.0089500	.0088527	145.5830	.1411890	.1200297
Stddev	.005943	.0000801	.0001139	.9736	.0011357	.0007752
%RSD	.3597924	.8953408	1.286201	.6687620	.8044066	.6458488
#1	1.656309	.0090409	.0087797	146.3701	.1400853	.1202275
#2	1.653788	.0088895	.0089839	145.8847	.1423543	.1206868
#3	1.644990	.0089196	.0087945	144.4943	.1411274	.1191748

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3665682	156.7226	7.973756	34.81340	.2353020	.0045853
Stddev	.0162805	.8634	.043730	.34083	.0011220	.0010224
%RSD	4.441331	.5508821	.5484287	.9790304	.4768280	22.29656
#1	.3793159	157.7017	8.023891	35.20686	.2364724	.0055256
#2	.3721600	156.3959	7.953903	34.60897	.2351980	.0047332
#3	.3482287	156.0703	7.943474	34.62437	.2342356	.0034970

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.267151	.2041312	1.975059	6.253086	F 15.66405	.0171726
Stddev	.335156	.0021220	.033369	.186522	.01499	.0025437
%RSD	26.44958	1.039502	1.689504	2.982883	.0957020	14.81269
#1	1.549610	.2042322	2.002938	6.374739	15.67651	.0198832
#2	.896809	.2062008	1.984154	6.346177	15.66822	.0167972
#3	1.355032	.2019605	1.938086	6.038341	15.64742	.0148375

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-01 Acquired: 12/17/2024 20:21:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKR8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0064313	4.270016	8.129576	.1087364	.7371640	.1892081
Stddev	.0003513	.004871	.059563	.0003586	.0022487	.0014352
%RSD	5.462618	.1140681	.7326685	.3297904	.3050425	.7585336
#1	.0061458	4.264830	8.192703	.1084645	.7388103	.1908549
#2	.0063245	4.274494	8.121656	.1086019	.7380797	.1882240
#3	.0068236	4.270724	8.074370	.1091428	.7346019	.1885454

Elem	Li6707
Units	ppm
Avg	.1199855
Stddev	.0063298
%RSD	5.275503
#1	.1217014
#2	.1252806
#3	.1129747

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2274.129	27774.11	1435.687	1929.186	2396.635
Stddev	8.916	38.90	12.027	6.493	4.988
%RSD	.3920675	.1400493	.8377335	.3365561	.2081348
#1	2269.318	27739.98	1422.500	1935.223	2392.607
#2	2284.418	27765.88	1438.507	1922.318	2402.215
#3	2268.652	27816.46	1446.053	1930.016	2395.084

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-02 Acquired: 12/17/2024 20:25:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKR8D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1310570	-.022793	1.912102	.0555103	.0233594	68.48024
Stddev	.0035699	.003557	.002938	.0019815	.0006789	.18573
%RSD	2.723898	15.60395	.1536375	3.569544	2.906483	.2712198
#1	.1280654	-.020641	1.915494	.0577565	.0227067	68.56476
#2	.1350087	-.026898	1.910372	.0540099	.0240618	68.26728
#3	.1300968	-.020840	1.910439	.0547646	.0233096	68.60869

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.615581	.0087676	.0087669	143.4419	.1393915	.1169540
Stddev	.004485	.0001104	.0000389	.7090	.0007420	.0006497
%RSD	.2776249	1.258809	.4437174	.4942928	.5323068	.5555176
#1	1.618895	.0088605	.0087323	143.6241	.1385656	.1175003
#2	1.610477	.0086456	.0088090	142.6596	.1396073	.1162356
#3	1.617370	.0087967	.0087593	144.0421	.1400017	.1171262

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3676257	153.1591	7.809976	34.07473	.2298837	.0041452
Stddev	.0041230	.2423	.024436	.07859	.0012689	.0008399
%RSD	1.121527	.1582123	.3128800	.2306514	.5519555	20.26138
#1	.3686820	152.9220	7.832050	34.02303	.2312603	.0046506
#2	.3630773	153.1490	7.783719	34.03599	.2296298	.0046093
#3	.3711178	153.4063	7.814160	34.16518	.2287610	.0031757

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.232326	.2065311	1.942469	5.912627	F 15.39551	.0124303
Stddev	.847509	.0088925	.041879	.067210	.02695	.0021559
%RSD	68.77310	4.305644	2.155968	1.136713	.1750544	17.34372
#1	.639146	.2067079	1.984155	5.978357	15.41890	.0149197
#2	2.202989	.1975515	1.942854	5.844029	15.40160	.0111896
#3	.854843	.2153338	1.900399	5.915495	15.36604	.0111816

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-02 Acquired: 12/17/2024 20:25:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKR8D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071071	4.174465	7.930768	.1074629	.7188317	.1838799
Stddev	.0004922	.014051	.069131	.0020471	.0029452	.0005852
%RSD	6.925647	.3365822	.8716762	1.904921	.4097151	.3182422
#1	.0072869	4.188733	7.977317	.1087187	.7156311	.1835973
#2	.0074842	4.174021	7.851333	.1051007	.7214275	.1845527
#3	.0065503	4.160642	7.963653	.1085693	.7194366	.1834896

Elem	Li6707
Units	ppm
Avg	.1160371
Stddev	.0072452
%RSD	6.243897
#1	.1236967
#2	.1092933
#3	.1151213

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2304.623	28190.55	1475.893	1971.368	2450.639
Stddev	8.723	28.83	9.098	9.840	7.192
%RSD	.3785187	.1022715	.6164132	.4991597	.2934860
#1	2294.746	28181.62	1470.637	1965.848	2442.539
#2	2307.848	28167.24	1486.398	1965.526	2453.103
#3	2311.274	28222.79	1470.644	1982.729	2456.275

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-01LX5 Acquired: 12/17/2024 20:29:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKR8L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0282624	.0034404	.3977846	.0067382	.0029344	16.55737	.3952121
Stddev	.0005281	.0015321	.0038345	.0032176	.0006068	.03970	.0011765
%RSD	1.868435	44.53305	.9639740	47.75155	20.67961	.2397570	.2976896
#1	.0285554	.0042371	.4009672	.0060950	.0036072	16.57379	.3958172
#2	.0285791	.0016741	.3988591	.0038907	.0027677	16.58622	.3959629
#3	.0276528	.0044101	.3935274	.0102288	.0024284	16.51209	.3938562

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022593	.0017264	35.19291	.0342758	.0371148	.0903951	37.73202
Stddev	.0001730	.0002123	.10197	.0006801	.0007564	.0075941	.10203
%RSD	7.656272	12.29388	.2897379	1.984205	2.038084	8.400958	.2704199
#1	.0024442	.0018957	35.17757	.0350540	.0376139	.0912670	37.80252
#2	.0022324	.0014883	35.30168	.0339786	.0374861	.0824028	37.77852
#3	.0021013	.0017953	35.09948	.0337950	.0362445	.0975156	37.61502

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.931871	8.292003	.0458779	.0018138	-.472000	.0457850	.4943810
Stddev	.012849	.167273	.0003642	.0004223	.104876	.0100618	.0124791
%RSD	.6650857	2.017282	.7938126	23.28279	22.21947	21.97618	2.524179
#1	1.931863	8.329997	.0462847	.0013456	-.569270	.0451337	.4973024
#2	1.944723	8.437011	.0455822	.0021659	-.485838	.0561566	.4807004
#3	1.919026	8.109001	.0457670	.0019299	-.360892	.0360647	.5051402

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.107579	3.143404	.0031591	.0017529	.8524118	1.979729	.0217799
Stddev	.221511	.037298	.0025263	.0004038	.0080900	.012034	.0006586
%RSD	19.99960	1.186535	79.96974	23.03591	.9490778	.6078733	3.023659
#1	.873381	3.186042	.0016672	.0013438	.8610832	1.982532	.0215636
#2	1.135622	3.127339	.0060759	.0017638	.8510852	1.990115	.0212567
#3	1.313733	3.116831	.0017341	.0021511	.8450671	1.966541	.0225194

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-01LX5 Acquired: 12/17/2024 20:29:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKR8L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1763259	.0445791	.0304727
Stddev	.0045611	.0004286	.0044810
%RSD	2.586720	.9614788	14.70497
#1	.1761963	.0445154	.0348969
#2	.1718311	.0450360	.0305841
#3	.1809504	.0441859	.0259370

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1993.391	24209.71	1238.124	1687.994	2503.953
Stddev	19.622	126.83	8.215	9.357	27.610
%RSD	.9843468	.5238729	.6634968	.5543229	1.102674
#1	1970.851	24065.80	1234.674	1683.594	2472.304
#2	2002.669	24258.15	1232.196	1681.649	2516.448
#3	2006.653	24305.18	1247.501	1698.740	2523.107

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-03 Acquired: 12/17/2024 20:33:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKR8S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2095260	.0594239	1.910025	.1920532	.1599448	72.03102
Stddev	.0031956	.0048871	.012123	.0036626	.0012848	.67463
%RSD	1.525177	8.224130	.6346828	1.907056	.8032435	.9365848
#1	.2076413	.0610225	1.897330	.1879233	.1608431	72.64884
#2	.2077209	.0539377	1.911265	.1949072	.1584732	72.13302
#3	.2132157	.0633114	1.921480	.1933290	.1605182	71.31119

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.959689	.0926417	.1002514	144.4253	.4818082	1.045765
Stddev	.047812	.0007880	.0005644	1.2778	.0010172	.005957
%RSD	.9640085	.8505722	.5629427	.8847139	.2111206	.5696639
#1	5.005086	.0929674	.0996888	145.3926	.4821920	1.039924
#2	4.964200	.0932147	.1002477	144.9065	.4825777	1.045539
#3	4.909782	.0917431	.1008175	142.9768	.4806549	1.051832

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7690583	156.3721	8.704253	34.38269	1.173594	.0710683
Stddev	.0140197	1.6027	.100354	.36846	.007082	.0004611
%RSD	1.822966	1.024911	1.152930	1.071632	.6034090	.6488295
#1	.7852467	157.7921	8.798418	34.78273	1.166711	.0708230
#2	.7609993	156.6898	8.715657	34.30809	1.173214	.0716002
#3	.7609288	154.6343	8.598684	34.05723	1.180858	.0707816

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.066406	1.037708	2.709430	6.174336	F 15.03995	.0074932
Stddev	.375444	.018414	.049637	.107376	.06829	.0035273
%RSD	35.20653	1.774500	1.831999	1.739062	.4540280	47.07381
#1	1.418493	1.058043	2.766727	6.294543	14.96977	.0044586
#2	.671308	1.022160	2.679519	6.087923	15.04389	.0113633
#3	1.109415	1.032920	2.682044	6.140542	15.10617	.0066577

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-03 Acquired: 12/17/2024 20:33:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKR8S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0065963	4.051035	8.019848	.1039622	.7221278	.1820375
Stddev	.0002397	.030469	.060355	.0013670	.0065066	.0024338
%RSD	3.633476	.7521296	.7525738	1.314894	.9010319	1.336954
#1	.0066408	4.033124	8.069409	.1028154	.7292810	.1847419
#2	.0068106	4.033767	8.037499	.1035962	.7205411	.1813471
#3	.0063375	4.086216	7.952635	.1054749	.7165614	.1800235

Elem	Li6707
Units	ppm
Avg	.1265399
Stddev	.0060712
%RSD	4.797846
#1	.1232193
#2	.1335472
#3	.1228534

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2259.402	27927.62	1427.728	1943.535	2417.488
Stddev	10.271	80.35	9.991	6.525	14.215
%RSD	.4545938	.2877120	.6997859	.3357476	.5880139
#1	2262.650	27954.88	1422.391	1944.253	2424.963
#2	2267.657	27837.18	1421.539	1936.680	2426.407
#3	2247.900	27990.78	1439.254	1949.671	2401.095

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-04 Acquired: 12/17/2024 20:37:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKW4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0615276	.0119154	.1831715	.0268590	.0134089	43.47602
Stddev	.0061346	.0071255	.0054693	.0012486	.0017898	.21041
%RSD	9.970541	59.80115	2.985878	4.648813	13.34766	.4839720
#1	.0609589	.0190661	.1880022	.0262842	.0113849	43.30908
#2	.0556971	.0048154	.1772332	.0260012	.0147825	43.40660
#3	.0679268	.0118646	.1842789	.0282915	.0140593	43.71237

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5765761	.0056377	.0038165	F 1227.395	.0727138	.1371520
Stddev	.0036709	.0000885	.0000797	4.684	.0001335	.0032372
%RSD	.6366769	1.569436	2.087376	.3815887	.1835609	2.360289
#1	.5731517	.0056953	.0039079	1224.672	.0726025	.1400713
#2	.5761249	.0056820	.0037620	1224.709	.0726771	.1336705
#3	.5804518	.0055358	.0037795	1232.803	.0728618	.1377142

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2464472	155.9530	14.86614	294.7892	.1858657	.0018368
Stddev	.0131474	.6205	.06782	1.3865	.0054449	.0006982
%RSD	5.334755	.3978710	.4562092	.4703218	2.929473	38.01222
#1	.2313666	156.0324	14.84518	294.6710	.1915964	.0020870
#2	.2524763	155.2967	14.81127	293.4656	.1807607	.0023755
#3	.2554987	156.5300	14.94196	296.2309	.1852401	.0010480

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.176679	.1231392	.4476729	9.944772	6.003701	.0428387
Stddev	.285862	.0091326	.0046327	.063955	.155694	.0044556
%RSD	24.29399	7.416454	1.034844	.6431063	2.593301	10.40074
#1	.882450	.1229072	.4450977	9.873811	6.159887	.0422244
#2	1.194219	.1141249	.4448999	9.997963	5.848504	.0475696
#3	1.453367	.1323856	.4530210	9.962544	6.002713	.0387222

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-04 Acquired: 12/17/2024 20:37:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKW4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020040	1.469184	6.291705	.0292235	.3235030	.7790909
Stddev	.0006702	.032828	.040394	.0017698	.0022185	.0036110
%RSD	33.44412	2.234442	.6420242	6.055894	.6857780	.4634893
#1	.0025826	1.501143	6.299225	.0273154	.3259902	.7772021
#2	.0012696	1.435551	6.248079	.0295440	.3217283	.7768160
#3	.0021599	1.470860	6.327811	.0308111	.3227905	.7832545

Elem	Li6707
Units	ppm
Avg	.1584073
Stddev	.0017386
%RSD	1.097522
#1	.1587676
#2	.1599375
#3	.1565169

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2035.693	24837.39	1352.649	1708.763	2025.984
Stddev	31.726	59.84	12.274	11.364	38.814
%RSD	1.558473	.2409174	.9073683	.6650155	1.915833
#1	2002.083	24900.23	1360.216	1720.123	1985.447
#2	2065.119	24781.09	1359.244	1697.396	2062.810
#3	2039.875	24830.85	1338.488	1708.771	2029.694

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-05 Acquired: 12/17/2024 20:41:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKY6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0861703	-.029928	.5357128	.0513825	.0244041	69.60520
Stddev	.0045230	.008331	.0012707	.0017944	.0012964	.19837
%RSD	5.248864	27.83787	.2371918	3.492306	5.312296	.2849946
#1	.0897160	-.028575	.5351616	.0531292	.0255540	69.39651
#2	.0877183	-.038854	.5348108	.0495439	.0246594	69.62778
#3	.0810766	-.022357	.5371660	.0514742	.0229991	69.79132

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8652801	.0078682	.0043853	192.4392	.1141783	.1164616
Stddev	.0016408	.0000853	.0002180	.9515	.0009564	.0005454
%RSD	.1896232	1.084559	4.971058	.4944327	.8376019	.4682616
#1	.8633863	.0077850	.0044163	191.3864	.1149109	.1170868
#2	.8661804	.0079555	.0045861	192.6935	.1145276	.1160837
#3	.8662736	.0078641	.0041534	193.2377	.1130964	.1162144

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2309121	163.8947	6.882521	90.37503	.1946125	.0029284
Stddev	.0067300	.7606	.033652	.36125	.0005413	.0006322
%RSD	2.914512	.4640638	.4889450	.3997190	.2781351	21.58876
#1	.2231577	163.0481	6.846413	90.02093	.1940511	.0027647
#2	.2343498	164.1156	6.888143	90.74302	.1946554	.0023941
#3	.2352290	164.5204	6.913008	90.36113	.1951311	.0036264

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5060570	.1983851	.7336180	9.462065	F 10.34406	.0280724
Stddev	.6018787	.0050137	.0059673	.039365	.03725	.0033354
%RSD	118.9350	2.527244	.8134099	.4160284	.3600812	11.88158
#1	.2106745	.1962293	.7405002	9.416819	10.32855	.0311586
#2	1.198560	.2041161	.7304696	9.488452	10.31708	.0245339
#3	.108936	.1948099	.7298843	9.480924	10.38656	.0285249

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-05 Acquired: 12/17/2024 20:41:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKY6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052539	7.932766	7.558856	.0514602	.9829375	.0775291
Stddev	.0005692	.035809	.073344	.0028557	.0085521	.0001865
%RSD	10.83380	.4514025	.9703027	5.549315	.8700527	.2405540
#1	.0058126	7.927618	7.493394	.0535588	.9759494	.0774017
#2	.0052744	7.899810	7.638121	.0482082	.9924741	.0774425
#3	.0046747	7.970870	7.545055	.0526135	.9803889	.0777432

Elem	Li6707
Units	ppm
Avg	.1184901
Stddev	.0037307
%RSD	3.148535
#1	.1151522
#2	.1225174
#3	.1178006

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2241.652	27363.73	1442.371	1907.897	2330.787
Stddev	2.517	110.65	11.033	10.927	3.097
%RSD	.1122909	.4043842	.7649371	.5727140	.1328912
#1	2243.278	27255.14	1451.144	1897.379	2331.217
#2	2242.925	27359.71	1429.984	1907.119	2333.646
#3	2238.752	27476.34	1445.986	1919.191	2327.497

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-06 Acquired: 12/17/2024 20:44:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKY7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0820136	-.039827	.4602996	.0662492	.0266688	60.68447	.7515567
Stddev	.0021354	.002914	.0026591	.0021085	.0020291	.38141	.0033521
%RSD	2.603764	7.315530	.5776784	3.182596	7.608673	.6285207	.4460227
#1	.0842813	-.036964	.4598010	.0662815	.0290118	60.60214	.7521933
#2	.0800412	-.042788	.4579251	.0641248	.0255112	61.10033	.7545449
#3	.0817183	-.039729	.4631726	.0683414	.0254834	60.35095	.7479320

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0070932	.0036874	105.7482	.0967378	.1059139	.2110922	177.6953
Stddev	.0000579	.0000697	.5748	.0009838	.0002515	.0068008	1.3352
%RSD	.8163201	1.889882	.5435648	1.016937	.2374885	3.221730	.7514218
#1	.0071601	.0037585	105.5734	.0956171	.1061311	.2095003	177.2649
#2	.0070609	.0036844	106.3901	.0971375	.1056383	.2052285	179.1927
#3	.0070586	.0036192	105.2811	.0974588	.1059723	.2185478	176.6283

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.792973	51.06899	.1795036	.0040707	.9889081	.1547252	.5741558
Stddev	.057465	.20626	.0006658	.0009344	.2206502	.0171890	.0186060
%RSD	.5867933	.4038892	.3709005	22.95322	22.31251	11.10935	3.240579
#1	9.766404	51.06210	.1787389	.0044382	.9745822	.1647412	.5867966
#2	9.858914	51.27861	.1799541	.0047654	.7757700	.1348774	.5527908
#3	9.753600	50.86626	.1798179	.0030085	1.216372	.1645570	.5828799

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.487398	8.378839	-.006202	.0046375	3.264539	7.478470	.0387748
Stddev	.215813	.023465	.002911	.0005938	.009866	.067710	.0004431
%RSD	3.326650	.2800474	46.93099	12.80418	.3022233	.9054057	1.142667
#1	6.352652	8.376359	-.002847	.0041889	3.253148	7.429058	.0392714
#2	6.736314	8.356712	-.008056	.0044129	3.270351	7.555650	.0384200
#3	6.373228	8.403444	-.007703	.0053109	3.270120	7.450702	.0386329

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-06 Acquired: 12/17/2024 20:44:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKY7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8706152	-.024210	.0926113
Stddev	.0035807	.000168	.0090146
%RSD	.4112849	.6940017	9.733755
#1	.8669552	-.024149	.0822024
#2	.8707795	-.024399	.0977534
#3	.8741110	-.024080	.0978781

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2223.034	27093.20	1426.594	1878.866	2365.425
Stddev	3.370	158.94	12.100	6.760	2.685
%RSD	.1516168	.5866255	.8481527	.3597764	.1134991
#1	2222.959	27234.26	1432.264	1881.654	2368.416
#2	2219.701	27124.36	1412.701	1883.785	2363.226
#3	2226.441	26921.00	1434.818	1871.158	2364.632

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: CCV051 Acquired: 12/17/2024 20:48:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: CCV051 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.069621	4.921102	24.43504	5.074513	5.045983	396.9922	9.962869
Stddev	.015649	.014767	.17129	.034937	.040052	3.7242	.095652
%RSD	.3086914	.3000682	.7009907	.6884803	.7937333	.9381075	.9600847
#1	5.063915	4.926380	24.42573	5.090840	5.067386	400.1715	10.04651
#2	5.057625	4.904421	24.26860	5.034402	4.999777	397.9104	9.98352
#3	5.087322	4.932503	24.61080	5.098297	5.070786	392.8948	9.85858

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4987556	2.472388	401.0329	15.38642	2.488462	14.64482	405.8398
Stddev	.0060061	.018150	3.7109	.06823	.018360	.16323	3.6681
%RSD	1.204222	.7341104	.9253282	.4434636	.7378042	1.114576	.9038362
#1	.5045624	2.473195	404.3124	15.32339	2.487334	14.79729	408.7496
#2	.4991361	2.453848	401.7816	15.37700	2.470692	14.66454	407.0504
#3	.4925682	2.490121	397.0048	15.45888	2.507360	14.47262	401.7194

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.19439	400.6617	2.485154	1.283443	394.3920	2.475940	15.60747
Stddev	.16964	3.8921	.017006	.006486	4.6812	.036652	.09867
%RSD	1.116446	.9714132	.6843189	.5053907	1.186940	1.480334	.6322206
#1	15.34239	404.5483	2.485263	1.276585	398.8713	2.503808	15.49949
#2	15.23151	400.6726	2.468093	1.289479	394.7728	2.489590	15.62997
#3	15.00926	396.7641	2.502105	1.284266	389.5321	2.434421	15.69296

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	150.5045	4.918533	4.714479	4.699070	4.928053	4.822368	4.986847
Stddev	1.3551	.035079	.057198	.036241	.038573	.052318	.035440
%RSD	.9003807	.7132011	1.213244	.7712453	.7827239	1.084902	.7106683
#1	151.7042	4.905017	4.774573	4.710755	4.929219	4.880820	4.986473
#2	150.7747	4.892222	4.708164	4.658428	4.888910	4.806361	4.951596
#3	149.0347	4.958360	4.660701	4.728028	4.966030	4.779924	5.022473

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: CCV051 Acquired: 12/17/2024 20:48:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: CCV051 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	4.928369	4.670821	4.883787
Stddev	.055816	.052503	.054672
%RSD	1.132539	1.124070	1.119464
#1	4.969898	4.718978	4.935834
#2	4.950287	4.678637	4.888706
#3	4.864921	4.614848	4.826822

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1526.187	20669.23	1151.720	1351.907	1978.390
Stddev	7.504	102.70	12.851	8.846	7.931
%RSD	.4916597	.4968898	1.115809	.6543303	.4008653
#1	1520.593	20771.37	1137.864	1362.073	1974.975
#2	1534.714	20670.36	1154.050	1347.679	1987.456
#3	1523.255	20565.97	1163.247	1345.967	1972.738

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: CCB051 Acquired: 12/17/2024 20:52:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: CCB051 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011359	.0029009	.0015255	-.000401	.0006781	.0114783	.0000478
Stddev	.0062779	.0022165	.0022923	.006757	.0026010	.0389576	.0015258
%RSD	552.6717	76.40783	150.2685	1686.531	383.5650	339.4033	3189.453
#1	.0079563	.0053722	.0041699	.006896	-.002155	.0284918	.0010290
#2	-.000148	.0010888	.0003017	-.006443	.001231	-.033092	.0008246
#3	-.004401	.0022417	.0001047	-.001656	.002958	.039035	-.001710

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000556	-.000080	.0004885	.0005641	.0000576	.0061927	.0247109
Stddev	.0000683	.000054	.0351717	.0009383	.0000028	.0068587	.0471090
%RSD	122.9140	67.55203	7199.985	166.3490	4.946920	110.7552	190.6410
#1	.0000005	-.000033	-.029715	.0009383	.0000580	.0133272	.0398099
#2	.0001321	-.000069	-.007922	.0012575	.0000545	-.000352	-.028097
#3	.0000342	-.000139	.039103	-.000504	.0000602	.005603	.062419

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000665	-.052638	.0001909	.0001370	-.142041	.0037565	.0193953
Stddev	.004150	.013469	.0001931	.0006560	.653565	.0123192	.0144979
%RSD	624.3587	25.58830	101.1410	478.7407	460.1251	327.9484	74.74991
#1	-.002332	-.056710	.0001211	.0008944	.493344	.0091428	.0108179
#2	.004060	-.037602	.0004091	-.000247	-.107082	.0124651	.0112335
#3	-.003721	-.063601	.0000424	-.000237	-.812384	-.010339	.0361343

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.440590	-.000610	.0142901	.0001556	.0010289	.0010237	-.000000
Stddev	.172970	.001837	.0003762	.0004758	.0027764	.0011473	.001427
%RSD	39.25875	301.2450	2.632247	305.8365	269.8422	112.0759	673906.5
#1	-.574526	.001116	.0138659	.0002431	-.001203	.0022339	.001339
#2	-.245308	-.002541	.0144215	.0005815	.004138	-.000048	-.001502
#3	-.501936	-.000405	.0145829	-.000358	.000152	.000885	.000162

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: CCB051 Acquired: 12/17/2024 20:52:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: CCB051 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.006835	.0001885	.0003107
Stddev	.006183	.0004168	.0091522
%RSD	90.46437	221.0700	2945.631
#1	-.011364	.0006470	.0105674
#2	-.009350	.0000859	-.002612
#3	.000209	-.000167	-.007023

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1862.281	22907.81	1167.235	1595.851	2464.100
Stddev	2.091	178.76	15.020	12.842	2.253
%RSD	.1122609	.7803240	1.286805	.8046832	.0914451
#1	1864.287	22720.23	1166.642	1582.010	2466.298
#2	1862.440	23076.19	1182.543	1607.378	2464.208
#3	1860.115	22927.00	1152.520	1598.166	2461.795

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-07 Acquired: 12/17/2024 20:56:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKY8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0866757	-.031565	.3649967	.0542489	.0235825	75.74481	.8698471
Stddev	.0042815	.003199	.0016217	.0074062	.0020269	1.51218	.0178549
%RSD	4.939633	10.13344	.4443011	13.65235	8.595086	1.996419	2.052644
#1	.0887268	-.031231	.3667265	.0500584	.0234863	74.71242	.8575007
#2	.0817546	-.034918	.3635108	.0628003	.0216053	77.48057	.8903197
#3	.0895458	-.028547	.3647528	.0498880	.0256558	75.04145	.8617210

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0089461	.0034843	161.7951	.1077330	.1202574	.2512517	161.6703
Stddev	.0001608	.0002285	3.6753	.0017910	.0004820	.0089140	3.1669
%RSD	1.797078	6.557241	2.271572	1.662444	.4008305	3.547848	1.958854
#1	.0088796	.0037333	159.7903	.1093242	.1208137	.2428969	159.5475
#2	.0091295	.0032844	166.0368	.1057934	.1199950	.2606356	165.3103
#3	.0088293	.0034351	159.5582	.1080816	.1199634	.2502227	160.1530

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.476065	55.15743	.1967160	.0029988	.5579432	.1688195	.4820533
Stddev	.158075	1.02592	.0010486	.0009748	.5240842	.0106432	.0225103
%RSD	2.114409	1.859978	.5330569	32.50483	93.93146	6.304494	4.669662
#1	7.378946	54.57994	.1979198	.0021072	1.162305	.1754012	.4808166
#2	7.658466	56.34193	.1962271	.0040395	.282670	.1745169	.4601869
#3	7.390783	54.55042	.1960011	.0028496	.228854	.1565404	.5051565

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.639046	7.357969	-.006243	.0038080	3.002347	8.977132	.0383947
Stddev	.165156	.027130	.004353	.0003920	.008679	.142193	.0009312
%RSD	2.487643	.3687111	69.71516	10.29498	.2890785	1.583945	2.425349
#1	6.561451	7.380478	-.008851	.0038841	3.007565	8.893559	.0391290
#2	6.828710	7.365584	-.008660	.0033835	3.007147	9.141314	.0387079
#3	6.526977	7.327846	-.001219	.0041564	2.992328	8.896525	.0373473

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-07 Acquired: 12/17/2024 20:56:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKY8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.199958	.1814674	.1288086
Stddev	.027102	.0032215	.0035542
%RSD	2.258586	1.775230	2.759309
#1	1.179834	.1792298	.1247918
#2	1.230775	.1851597	.1315460
#3	1.189264	.1800128	.1300880

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2288.649	28073.08	1443.064	1958.982	2345.844
Stddev	6.230	108.20	20.629	4.108	6.144
%RSD	.2721982	.3854222	1.429527	.2097213	.2618902
#1	2284.274	27966.35	1452.674	1956.028	2339.843
#2	2285.891	28182.69	1419.383	1963.674	2345.566
#3	2295.782	28070.21	1457.133	1957.245	2352.121

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-08 Acquired: 12/17/2024 21:00:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKY9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1313002	-.048327	.7959849	.0695633	.0302613	79.36924
Stddev	.0023692	.004060	.0021918	.0031595	.0028301	.77316
%RSD	1.804380	8.400203	.2753526	4.541887	9.352278	.9741307
#1	.1313642	-.052108	.7982472	.0706126	.0270433	79.75506
#2	.1288997	-.048837	.7958363	.0660126	.0323631	79.87357
#3	.1336367	-.044037	.7938712	.0720646	.0313775	78.47910

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.242435	.0088068	.0053259	68.10571	.1198109	.1190477
Stddev	.011954	.0001617	.0000742	.76210	.0010867	.0002250
%RSD	.9621203	1.835719	1.392637	1.118991	.9070195	.1889773
#1	1.247713	.0089423	.0053189	68.41577	.1210491	.1190994
#2	1.250842	.0086279	.0052555	68.66391	.1190156	.1192424
#3	1.228751	.0088503	.0054034	67.23746	.1193679	.1188014

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2236271	180.7655	8.701339	30.61731	.1714822	.0043695
Stddev	.0148233	1.6367	.097028	.49468	.0005574	.0002558
%RSD	6.628573	.9054301	1.115097	1.615689	.3250460	5.854226
#1	.2374337	181.6365	8.750556	30.71146	.1721156	.0042506
#2	.2254852	181.7827	8.763896	31.05814	.1712646	.0046631
#3	.2079623	178.8775	8.589565	30.08232	.1710665	.0041947

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8296906	.1942894	.6933580	8.617750	F 11.00663	-.014409
Stddev	.3224790	.0071539	.0059507	.270123	.02176	.002678
%RSD	38.86738	3.682068	.8582461	3.134500	.1977130	18.58815
#1	.4579963	.1893049	.6908828	8.528746	11.00961	-.012495
#2	1.034908	.1910768	.7001468	8.921145	10.98353	-.017470
#3	.996167	.2024863	.6890444	8.403360	11.02674	-.013261

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-08 Acquired: 12/17/2024 21:00:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKY9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0044619	2.319029	8.058153	.0590130	1.043208	-.000791
Stddev	.0003206	.002872	.043075	.0018709	.010253	.000133
%RSD	7.185800	.1238634	.5345476	3.170318	.9828189	16.79331
#1	.0047302	2.320337	8.097445	.0578616	1.048283	-.000765
#2	.0045488	2.315736	8.064917	.0611717	1.049933	-.000935
#3	.0041068	2.321015	8.012097	.0580056	1.031407	-.000673

Elem	Li6707
Units	ppm
Avg	.1250513
Stddev	.0028990
%RSD	2.318273
#1	.1240587
#2	.1283162
#3	.1227789

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2373.610	29208.47	1497.580	2034.776	2431.195
Stddev	7.643	70.63	9.459	7.926	8.867
%RSD	.3220152	.2418096	.6316137	.3895110	.3646983
#1	2378.271	29129.31	1490.972	2025.624	2437.877
#2	2377.770	29265.04	1493.353	2039.339	2434.572
#3	2364.789	29231.05	1508.416	2039.365	2421.136

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-09 Acquired: 12/17/2024 21:04:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKZ0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1702470	-.047595	.5818381	.0701130	.0312009	71.77133
Stddev	.0014587	.004283	.0047396	.0039794	.0014568	.41999
%RSD	.8568207	8.998038	.8145881	5.675727	4.669040	.5851843
#1	.1712857	-.046054	.5825651	.0656404	.0321726	71.71764
#2	.1685793	-.052435	.5767770	.0714365	.0319042	72.21558
#3	.1708760	-.044297	.5861722	.0732620	.0295259	71.38075

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.295620	.0083203	.0054284	43.74309	.1076416	.1065450
Stddev	.006804	.0001035	.0000410	.19083	.0011084	.0002220
%RSD	.5251570	1.243942	.7546224	.4362567	1.029716	.2083712
#1	1.296330	.0082858	.0054201	43.79804	.1082266	.1066577
#2	1.302041	.0084367	.0054728	43.90041	.1083349	.1062892
#3	1.288488	.0082385	.0053921	43.53081	.1063632	.1066880

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1788098	174.7576	10.14111	21.27540	.1421642	.0050565
Stddev	.0081703	.9519	.06404	.18978	.0005320	.0003189
%RSD	4.569269	.5446874	.6314478	.8920279	.3742528	6.306153
#1	.1751294	174.5670	10.12190	21.28138	.1425849	.0052059
#2	.1881729	175.7904	10.21255	21.46212	.1415662	.0046903
#3	.1731270	173.9155	10.08888	21.08270	.1423416	.0052732

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6158204	.1805255	.5740711	8.197207	F 10.88291	-.017666
Stddev	.3482302	.0132733	.0193224	.218763	.01811	.001610
%RSD	56.54736	7.352599	3.365854	2.668753	.1663858	9.111973
#1	.6093301	.1955904	.5963815	8.214780	10.88554	-.016151
#2	.9672504	.1705501	.5631075	8.406653	10.86363	-.017491
#3	.2708808	.1754361	.5627241	7.970187	10.89956	-.019357

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-09 Acquired: 12/17/2024 21:04:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKZ0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043580	2.114488	8.866398	.0503166	.6822303	-.007297
Stddev	.0003178	.014720	.053766	.0010478	.0073520	.000446
%RSD	7.291726	.6961680	.6063973	2.082373	1.077642	6.117032
#1	.0040130	2.127362	8.827104	.0515168	.6859929	-.007134
#2	.0044221	2.098439	8.927671	.0495843	.6869396	-.006956
#3	.0046388	2.117664	8.844419	.0498487	.6737586	-.007802

Elem	Li6707
Units	ppm
Avg	.1004990
Stddev	.0032826
%RSD	3.266347
#1	.0983857
#2	.1042807
#3	.0988305

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2367.162	28885.70	1482.094	2010.107	2483.885
Stddev	2.277	129.64	8.063	13.786	2.431
%RSD	.0962035	.4487902	.5440216	.6858336	.0978693
#1	2365.985	28746.49	1487.265	1994.459	2483.303
#2	2369.787	28907.64	1472.804	2015.397	2486.555
#3	2365.715	29002.96	1486.214	2020.464	2481.798

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-10 Acquired: 12/17/2024 21:07:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKZ1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1240488	-.065298	.2375002	.0825917	.0324002	85.36184	1.257922
Stddev	.0035832	.005709	.0007899	.0014978	.0009805	.41227	.004197
%RSD	2.888571	8.742209	.3325778	1.813524	3.026166	.4829683	.3336592
#1	.1238373	-.071361	.2375149	.0843193	.0331672	85.77402	1.261736
#2	.1205761	-.064508	.2367030	.0817981	.0312955	84.94948	1.253425
#3	.1277332	-.060027	.2382826	.0816576	.0327379	85.36203	1.258605

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0090125	.0052254	36.38829	.1195876	.1155976	.1527667	195.1544
Stddev	.0002227	.0001673	.21896	.0004733	.0011967	.0049599	.9489
%RSD	2.471140	3.201928	.6017312	.3957674	1.035274	3.246741	.4862444
#1	.0092631	.0051037	36.63160	.1190456	.1145941	.1493315	196.2463
#2	.0089372	.0054162	36.32617	.1197980	.1169222	.1584530	194.6881
#3	.0088372	.0051563	36.20710	.1199191	.1152767	.1505156	194.5289

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.25020	25.05749	.1663419	.0052733	1.065894	.1986105	.4344222
Stddev	.04626	.07835	.0008115	.0008449	.670353	.0080111	.0179521
%RSD	.4513569	.3126837	.4878208	16.02157	62.89112	4.033550	4.132412
#1	10.30162	25.11110	.1656701	.0061249	.820083	.1966084	.4302079
#2	10.23703	25.09380	.1661121	.0044353	.553146	.1917904	.4189521
#3	10.21194	24.96757	.1672435	.0052598	1.824453	.2074327	.4541066

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.056538	9.526753	-.026534	.0035646	1.376174	8.169108	.0319202
Stddev	.037079	.051637	.002481	.0002884	.008677	.100021	.0020161
%RSD	.6122106	.5420203	9.348682	8.091536	.6305454	1.224378	6.315971
#1	6.044915	9.467161	-.026612	.0038851	1.367944	8.276244	.0301342
#2	6.098035	9.554839	-.024015	.0033260	1.375340	8.152898	.0315199
#3	6.026663	9.558260	-.028974	.0034826	1.385238	8.078182	.0341063

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-10 Acquired: 12/17/2024 21:07:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKZ1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6956031	-.048588	.1239820
Stddev	.0027811	.000611	.0049999
%RSD	.3998101	1.257913	4.032759
#1	.6944428	-.049161	.1297191
#2	.6935901	-.047945	.1216731
#3	.6987765	-.048659	.1205538

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2378.612	29213.15	1499.191	2030.775	2417.387
Stddev	3.921	84.62	16.722	7.522	5.706
%RSD	.1648234	.2896596	1.115402	.3704075	.2360459
#1	2382.085	29194.13	1479.907	2024.576	2423.717
#2	2374.361	29305.66	1507.995	2039.144	2412.637
#3	2379.391	29139.65	1509.672	2028.605	2415.807

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-11 Acquired: 12/17/2024 21:11:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKZ2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1108897	-.061867	.2076658	.0838500	.0343442	72.25265
Stddev	.0044120	.011063	.0015292	.0067727	.0025286	.42604
%RSD	3.978705	17.88255	.7363553	8.077136	7.362558	.5896566
#1	.1071051	-.049294	.2078262	.0908521	.0372346	72.62434
#2	.1098285	-.066193	.2060627	.0833651	.0332567	71.78770
#3	.1157355	-.070114	.2091084	.0773328	.0325413	72.34590

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.024447	.0080810	.0042747	51.33842	.1125173	.1254186
Stddev	.004134	.0001239	.0001672	.28428	.0006199	.0005826
%RSD	.4035631	1.533213	3.910282	.5537354	.5508923	.4645555
#1	1.028825	.0079880	.0040838	51.65674	.1130594	.1257137
#2	1.020609	.0082217	.0043946	51.10983	.1118415	.1247475
#3	1.023907	.0080334	.0043458	51.24870	.1126510	.1257948

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1453709	209.8686	10.95438	36.24223	.1992526	.0045482
Stddev	.0025923	.9293	.04275	.28129	.0007837	.0002672
%RSD	1.783220	.4428005	.3902782	.7761453	.3933150	5.874767
#1	.1442666	210.9395	11.00213	36.48314	.1998456	.0044168
#2	.1435136	209.2746	10.91967	36.31044	.1983641	.0043721
#3	.1483325	209.3916	10.94133	35.93310	.1995481	.0048556

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8759994	.2068846	.5252544	5.209684	F 11.28506	-.031793
Stddev	.1234419	.0130416	.0105713	.206045	.03886	.003394
%RSD	14.09155	6.303811	2.012605	3.955042	.3443899	10.67657
#1	.8381003	.1992308	.5180745	5.381124	11.27011	-.034716
#2	1.013947	.2219431	.5202951	4.981098	11.25589	-.032593
#3	.775950	.1994800	.5373935	5.266831	11.32918	-.028070

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-11 Acquired: 12/17/2024 21:11:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKZ2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034470	.8388579	7.632691	.0297784	.7900725	-.061554
Stddev	.0001074	.0044803	.071316	.0004648	.0019122	.000930
%RSD	3.114941	.5340981	.9343518	1.560942	.2420331	1.511233
#1	.0033329	.8350347	7.709733	.0300365	.7907116	-.062395
#2	.0035461	.8437879	7.619358	.0300568	.7879226	-.061711
#3	.0034620	.8377511	7.568982	.0292418	.7915834	-.060555

Elem	Li6707
Units	ppm
Avg	.1141309
Stddev	.0017758
%RSD	1.555925
#1	.1160699
#2	.1125837
#3	.1137391

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2442.464	30131.28	1554.103	2097.176	2417.796
Stddev	12.094	173.58	8.908	11.184	10.725
%RSD	.4951469	.5760921	.5731976	.5333030	.4435851
#1	2450.112	30094.52	1543.932	2090.989	2424.261
#2	2448.759	30320.30	1557.856	2110.087	2423.711
#3	2428.521	29979.02	1560.519	2090.452	2405.416

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-12 Acquired: 12/17/2024 21:15:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL56 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1190622	-.026896	1.558902	.0543380	.0241335	64.51443
Stddev	.0008056	.006000	.004005	.0024313	.0021184	.30372
%RSD	.6766574	22.30899	.2569220	4.474357	8.777749	.4707858
#1	.1182508	-.024978	1.560544	.0529538	.0218599	64.31463
#2	.1198620	-.033621	1.554337	.0571453	.0260518	64.36473
#3	.1190738	-.022089	1.561825	.0529148	.0244889	64.86395

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.519850	.0083080	.0091065	190.7505	.1705035	.1227207
Stddev	.009168	.0001196	.0000949	.6130	.0000974	.0009870
%RSD	.6032168	1.439728	1.042107	.3213508	.0571540	.8042624
#1	1.514320	.0082506	.0090058	190.5205	.1704206	.1217231
#2	1.514798	.0082280	.0091194	190.2858	.1706108	.1227423
#3	1.530433	.0084455	.0091942	191.4452	.1704790	.1236967

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3673518	162.7389	9.131484	38.13220	.1933235	.0058360
Stddev	.0026563	.3557	.025899	.07619	.0007717	.0016167
%RSD	.7231036	.2185519	.2836202	.1997962	.3991848	27.70199
#1	.3702476	162.8269	9.115376	38.05614	.1928249	.0040239
#2	.3650282	162.3475	9.117719	38.13196	.1929332	.0063536
#3	.3667797	163.0424	9.161359	38.20851	.1942124	.0071306

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3672031	.1836720	1.725936	12.61374	F 17.44874	.0163150
Stddev	.4449748	.0058407	.005527	.15904	.07467	.0009182
%RSD	121.1795	3.179970	.3202576	1.260834	.4279520	5.628170
#1	.6406805	.1832416	1.719985	12.66121	17.38859	.0165174
#2	-.146245	.1897160	1.730909	12.43638	17.42532	.0171152
#3	.607174	.1780584	1.726914	12.74364	17.53232	.0153125

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-12 Acquired: 12/17/2024 21:15:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL56 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0082617	5.631111	8.777679	.1370254	.6650911	.1795889
Stddev	.0004246	.037532	.049284	.0016704	.0034093	.0005745
%RSD	5.139509	.6665166	.5614733	1.219019	.5126122	.3198710
#1	.0085394	5.594703	8.766116	.1373003	.6690069	.1794636
#2	.0084728	5.628956	8.735205	.1352346	.6627824	.1790875
#3	.0077729	5.669674	8.831717	.1385413	.6634839	.1802157

Elem	Li6707
Units	ppm
Avg	.1002654
Stddev	.0025667
%RSD	2.559892
#1	.1025675
#2	.1007309
#3	.0974978

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2261.314	27643.27	1444.755	1922.838	2373.087
Stddev	2.935	95.82	8.872	10.565	6.785
%RSD	.1297965	.3466339	.6141178	.5494496	.2859005
#1	2259.888	27624.69	1448.953	1923.460	2374.547
#2	2264.689	27558.11	1450.749	1911.976	2379.022
#3	2259.364	27747.03	1434.562	1933.078	2365.691

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-13 Acquired: 12/17/2024 21:19:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL57 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0964488	-.069029	.1916517	.0837544	.0347823	73.00416
Stddev	.0042117	.003137	.0023519	.0078436	.0015733	.50189
%RSD	4.366804	4.544926	1.227193	9.365042	4.523170	.6874763
#1	.1012075	-.069539	.1940451	.0911460	.0337621	73.28373
#2	.0932005	-.065668	.1893436	.0845914	.0365942	73.30401
#3	.0949386	-.071880	.1915663	.0755258	.0339906	72.42475

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9248308	.0084476	.0035532	49.44171	.1178484	.1187593
Stddev	.0044190	.0000993	.0001239	.29928	.0019819	.0008601
%RSD	.4778205	1.175395	3.486348	.6053143	1.681734	.7242288
#1	.9258909	.0084431	.0034360	49.46251	.1199717	.1182213
#2	.9286234	.0085491	.0036828	49.73005	.1160475	.1197513
#3	.9199782	.0083507	.0035406	49.13258	.1175259	.1183054

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1352913	201.6340	7.604644	34.53670	.1928662	.0042017
Stddev	.0049509	.7797	.038268	.28722	.0016974	.0002352
%RSD	3.659418	.3867012	.5032145	.8316278	.8800885	5.597969
#1	.1355945	202.1526	7.619534	34.72792	.1921844	.0043686
#2	.1400836	202.0121	7.633228	34.67576	.1916157	.0043039
#3	.1301957	200.7373	7.561169	34.20642	.1947985	.0039327

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.326818	.2106337	.4575780	4.791088	F 10.58249	-.040637
Stddev	.678844	.0153251	.0052600	.157212	.05940	.002852
%RSD	51.16328	7.275693	1.149530	3.281348	.5612760	7.018904
#1	2.052881	.2283038	.4523124	4.927109	10.54386	-.043918
#2	.707948	.2026252	.4575892	4.827189	10.55273	-.039238
#3	1.219625	.2009721	.4628324	4.618965	10.65088	-.038754

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-13 Acquired: 12/17/2024 21:19:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL57 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027310	.8139531	6.883761	.0267726	.7667301	.0124368
Stddev	.0004361	.0072575	.042822	.0008610	.0026261	.0002898
%RSD	15.96917	.8916326	.6220786	3.216066	.3425054	2.330157
#1	.0022935	.8056153	6.910278	.0258469	.7653140	.0124210
#2	.0031658	.8188515	6.906646	.0275496	.7697603	.0127343
#3	.0027338	.8173924	6.834358	.0269213	.7651160	.0121553

Elem	Li6707
Units	ppm
Avg	.1152149
Stddev	.0032992
%RSD	2.863502
#1	.1115388
#2	.1179187
#3	.1161873

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2388.834	29391.87	1504.563	2050.896	2412.091
Stddev	6.470	242.43	6.714	15.941	9.883
%RSD	.2708304	.8248110	.4462331	.7772723	.4097319
#1	2390.670	29354.60	1500.691	2046.104	2416.816
#2	2394.187	29650.77	1500.682	2068.683	2418.725
#3	2381.645	29170.23	1512.315	2037.900	2400.733

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-14 Acquired: 12/17/2024 21:23:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKX1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1014522	-.025289	.2160163	.0400439	.0207889	41.54582
Stddev	.0073360	.003135	.0039946	.0037447	.0018948	.06530
%RSD	7.230971	12.39584	1.849200	9.351363	9.114710	.1571692
#1	.0997844	-.024255	.2205253	.0428889	.0228253	41.56328
#2	.1094785	-.028811	.2129202	.0414414	.0190777	41.47356
#3	.0950938	-.022803	.2146035	.0358015	.0204637	41.60060

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3834429	.0066391	.0041766	F 1278.534	.0631000	.1500534
Stddev	.0010254	.0001274	.0001568	3.104	.0014425	.0003065
%RSD	.2674211	1.918516	3.753307	.2427851	2.286006	.2042610
#1	.3846081	.0065807	.0040494	1275.325	.0621717	.1503463
#2	.3830425	.0067852	.0043517	1278.755	.0623665	.1497349
#3	.3826781	.0065513	.0041287	1281.522	.0647618	.1500790

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3089883	189.0606	9.169113	164.4113	.1575154	.0032624
Stddev	.0049089	.3222	.005166	.6775	.0025642	.0010735
%RSD	1.588711	.1704332	.0563398	.4121023	1.627897	32.90323
#1	.3137228	188.9524	9.167898	164.0200	.1604418	.0040945
#2	.3093202	189.4230	9.174778	165.1936	.1564424	.0036421
#3	.3039218	188.8064	9.164663	164.0202	.1556620	.0020508

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.521141	.1679401	.5127987	7.924419	6.705163	.0042417
Stddev	.442049	.0059144	.0228364	.381291	.023667	.0010244
%RSD	29.06033	3.521735	4.453283	4.811599	.3529651	24.15067
#1	1.294824	.1616979	.5183577	7.781420	6.718377	.0039268
#2	2.030522	.1734605	.5323424	8.356538	6.677839	.0053866
#3	1.238077	.1686620	.4876961	7.635298	6.719271	.0034117

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-14 Acquired: 12/17/2024 21:23:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKX1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022917	1.390758	5.694857	.0362613	1.989022	1.154098
Stddev	.0004868	.006256	.015320	.0012572	.009691	.002450
%RSD	21.24361	.4498611	.2690220	3.466921	.4872057	.2123222
#1	.0017310	1.397085	5.681722	.0376140	1.982633	1.152744
#2	.0026066	1.384575	5.711687	.0360410	2.000172	1.156926
#3	.0025375	1.390613	5.691161	.0351288	1.984261	1.152623

Elem	Li6707
Units	ppm
Avg	.1510577
Stddev	.0035283
%RSD	2.335753
#1	.1506567
#2	.1477470
#3	.1547694

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2071.685	25495.30	1375.213	1768.764	2030.628
Stddev	4.784	57.88	4.401	5.257	9.346
%RSD	.2309348	.2270078	.3199960	.2972251	.4602731
#1	2067.750	25537.55	1380.288	1774.321	2022.348
#2	2077.010	25519.02	1372.902	1763.869	2040.762
#3	2070.295	25429.33	1372.451	1768.101	2028.773

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-15 Acquired: 12/17/2024 21:27:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKX2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0715760	-.029747	1.180117	.0493705	.0215971	59.10599
Stddev	.0025317	.002226	.005862	.0031789	.0008867	.26901
%RSD	3.537079	7.482012	.4967718	6.438760	4.105599	.4551235
#1	.0729730	-.030899	1.173862	.0496154	.0205865	59.41553
#2	.0686536	-.027182	1.181002	.0524198	.0222448	58.92886
#3	.0731015	-.031161	1.185486	.0460763	.0219599	58.97356

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.283302	.0077216	.0079875	166.9188	.1191409	.1012534
Stddev	.004400	.0001726	.0000789	.5643	.0002323	.0004598
%RSD	.3428989	2.235153	.9875524	.3380867	.1949436	.4540784
#1	1.287810	.0078958	.0079243	167.5696	.1193032	.1008487
#2	1.279018	.0077182	.0080759	166.5639	.1188748	.1017534
#3	1.283078	.0075507	.0079622	166.6230	.1192446	.1011583

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2276529	147.7480	4.200270	54.56205	.1748767	.0035040
Stddev	.0095826	.6199	.024853	.04264	.0003367	.0005688
%RSD	4.209288	.4195517	.5916982	.0781430	.1925280	16.23383
#1	.2166850	148.4368	4.228916	54.60632	.1745921	.0029153
#2	.2318703	147.2350	4.184455	54.52127	.1747896	.0040507
#3	.2344034	147.5721	4.187439	54.55855	.1752483	.0035460

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.282319	.1659092	1.743001	10.48079	F 14.93208	.0190907
Stddev	.531252	.0076937	.019143	.09313	.01699	.0047173
%RSD	41.42902	4.637314	1.098265	.8885815	.1137698	24.70985
#1	1.104893	.1599311	1.746936	10.55890	14.91928	.0221778
#2	1.879578	.1745895	1.722196	10.50574	14.92560	.0214338
#3	.862487	.1632071	1.759870	10.37772	14.95135	.0136606

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-15 Acquired: 12/17/2024 21:27:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKX2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0067021	5.318237	8.649982	.0824073	.8261009	.1295687
Stddev	.0005464	.017286	.083949	.0011271	.0037046	.0006802
%RSD	8.152171	.3250350	.9705131	1.367674	.4484435	.5249300
#1	.0067830	5.300099	8.741917	.0836743	.8279705	.1293239
#2	.0072035	5.334522	8.577398	.0815162	.8218340	.1290449
#3	.0061198	5.320091	8.630631	.0820315	.8284981	.1303374

Elem	Li6707
Units	ppm
Avg	.1183463
Stddev	.0037883
%RSD	3.200984
#1	.1183614
#2	.1145505
#3	.1221270

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2194.315	26860.14	1378.956	1872.535	2332.509
Stddev	1.270	217.10	7.642	17.473	2.192
%RSD	.0578671	.8082630	.5542040	.9331049	.0939785
#1	2193.038	27059.05	1370.155	1890.445	2332.232
#2	2194.329	26628.55	1382.798	1855.536	2330.468
#3	2195.578	26892.84	1383.915	1871.623	2334.826

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-16 Acquired: 12/17/2024 21:30:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKX3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0935399	-.037056	5.297514	.0528424	.0272047	64.33047
Stddev	.0044159	.008952	.016764	.0051160	.0009919	.14724
%RSD	4.720918	24.15733	.3164578	9.681716	3.646095	.2288734
#1	.0935985	-.029337	5.293231	.0568814	.0260621	64.16960
#2	.0890950	-.046870	5.283307	.0470894	.0277073	64.36326
#3	.0979263	-.034962	5.316005	.0545562	.0278448	64.45855

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.559362	.0085823	.0094143	162.0585	.1360201	.1111244
Stddev	.003016	.0001494	.0001394	.6038	.0006599	.0003508
%RSD	.1934393	1.740306	1.480918	.3725676	.4851252	.3156985
#1	1.556033	.0087370	.0094106	161.4160	.1362685	.1113869
#2	1.561914	.0085710	.0092768	162.1454	.1365197	.1107259
#3	1.560139	.0084389	.0095555	162.6141	.1352721	.1112602

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2606107	168.4276	5.001979	51.50786	.1902930	.0062672
Stddev	.0050153	.0905	.007416	.27077	.0008831	.0008278
%RSD	1.924433	.0537296	.1482647	.5256782	.4640601	13.20848
#1	.2661867	168.4203	4.993431	51.66758	.1894882	.0056299
#2	.2591772	168.5215	5.005808	51.19523	.1901532	.0059688
#3	.2564683	168.3410	5.006697	51.66077	.1912377	.0072028

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.047657	.2016438	1.794781	8.720087	F 16.71813	-.010100
Stddev	.532733	.0070072	.027394	.121824	.06358	.002678
%RSD	50.84993	3.475013	1.526288	1.397055	.3802780	26.51498
#1	.446829	.2062041	1.764136	8.793295	16.71229	-.011697
#2	1.233798	.2051519	1.816893	8.787510	16.65768	-.007008
#3	1.462344	.1935755	1.803313	8.579456	16.78443	-.011595

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-16 Acquired: 12/17/2024 21:30:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKX3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0068623	4.255902	8.976562	.1083639	.8403844	.1324799
Stddev	.0003617	.033514	.074941	.0015441	.0047634	.0009566
%RSD	5.271457	.7874690	.8348567	1.424899	.5668167	.7220972
#1	.0069760	4.245543	9.062710	.1101460	.8447322	.1322712
#2	.0064573	4.228791	8.940562	.1075199	.8352928	.1335236
#3	.0071535	4.293373	8.926413	.1074258	.8411281	.1316448

Elem	Li6707
Units	ppm
Avg	.1250157
Stddev	.0034340
%RSD	2.746830
#1	.1218472
#2	.1286645
#3	.1245354

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2237.878	27413.66	1423.316	1915.724	2336.823
Stddev	3.254	88.97	7.767	4.381	1.256
%RSD	.1454233	.3245603	.5456658	.2287066	.0537427
#1	2238.300	27470.73	1415.142	1920.676	2338.061
#2	2234.433	27311.14	1424.208	1912.350	2335.550
#3	2240.901	27459.11	1430.598	1914.145	2336.856

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-17 Acquired: 12/17/2024 21:34:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKX4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0995832	-.038126	1.295826	.0560532	.0220599	72.86834
Stddev	.0044940	.004243	.004028	.0057070	.0013620	.82040
%RSD	4.512846	11.12951	.3108738	10.18136	6.174124	1.125863
#1	.0945726	-.033838	1.292471	.0533375	.0211855	72.16797
#2	.1032578	-.042323	1.300294	.0626108	.0236292	73.77094
#3	.1009190	-.038218	1.294713	.0522111	.0213651	72.66612

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.486022	.0088826	.0079274	148.6202	.1402818	.1102446
Stddev	.016060	.0000791	.0000445	1.5461	.0010606	.0007627
%RSD	1.080751	.8906962	.5615547	1.040302	.7560691	.6918362
#1	1.471317	.0089688	.0079059	147.5408	.1391806	.1100195
#2	1.503160	.0088660	.0078977	150.3914	.1412966	.1110945
#3	1.483591	.0088132	.0079786	147.9285	.1403682	.1096198

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2285674	164.7952	4.670743	49.05892	.1783041	.0046959
Stddev	.0059965	1.6545	.043401	.51955	.0009041	.0012170
%RSD	2.623498	1.003953	.9292152	1.059037	.5070304	25.91629
#1	.2350115	163.2377	4.631609	48.60259	.1777410	.0033053
#2	.2231516	166.5320	4.717422	49.62436	.1793470	.0055665
#3	.2275390	164.6157	4.663197	48.94981	.1778245	.0052159

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3668881	.1994311	1.345287	8.004649	F 16.26677	-.009207
Stddev	.8039065	.0029090	.013015	.157461	.07716	.001183
%RSD	219.1149	1.458648	.9674418	1.967121	.4743485	12.84625
#1	-.537260	.1999680	1.340559	7.962689	16.24625	-.010286
#2	1.001042	.2020342	1.335297	7.872418	16.35213	-.007942
#3	.636882	.1962910	1.360005	8.178839	16.20195	-.009392

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-17 Acquired: 12/17/2024 21:34:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKX4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048307	3.266835	7.877146	.2049460	.8164011	.1168517
Stddev	.0005201	.021867	.063621	.0032468	.0125079	.0015552
%RSD	10.76752	.6693574	.8076616	1.584210	1.532076	1.330946
#1	.0050459	3.248860	7.804112	.2074558	.8057740	.1162964
#2	.0042375	3.291179	7.906802	.2061030	.8301849	.1186084
#3	.0052086	3.260465	7.920525	.2012792	.8132444	.1156503

Elem	Li6707
Units	ppm
Avg	.1545653
Stddev	.0067274
%RSD	4.352473
#1	.1476185
#2	.1610494
#3	.1550281

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2323.099	28276.71	1466.268	1983.093	2390.955
Stddev	4.377	143.06	10.724	12.334	9.251
%RSD	.1883934	.5059276	.7313828	.6219396	.3869321
#1	2323.228	28335.20	1478.293	1984.506	2388.807
#2	2318.659	28113.67	1457.693	1970.114	2382.967
#3	2327.410	28381.24	1462.819	1994.659	2401.092

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-18 Acquired: 12/17/2024 21:38:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKX6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0382599	.0121063	.2034588	.0044932	.0058533	40.82105
Stddev	.0056514	.0042962	.0015005	.0034054	.0006114	.21384
%RSD	14.77100	35.48710	.7374997	75.79021	10.44497	.5238506
#1	.0425431	.0166494	.2018465	.0006990	.0053341	41.06550
#2	.0318547	.0081094	.2037155	.0054958	.0065272	40.66863
#3	.0403820	.0115600	.2048144	.0072847	.0056986	40.72902

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3982105	.0046230	.0024038	F 936.6998	.0683892	.1045218
Stddev	.0025572	.0001932	.0002331	3.9800	.0020038	.0010027
%RSD	.6421808	4.178465	9.698065	.4248961	2.929999	.9593164
#1	.4008915	.0044000	.0021483	941.1397	.0679021	.1038498
#2	.3979416	.0047400	.0026050	933.4522	.0705916	.1040412
#3	.3957983	.0047290	.0024582	935.5076	.0666738	.1056743

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0758057	110.7613	4.286538	308.0870	.0987762	.0012343
Stddev	.0067369	.7202	.017727	.5619	.0006415	.0002255
%RSD	8.887089	.6502419	.4135440	.1823825	.6494942	18.27065
#1	.0789848	111.4654	4.306969	308.4635	.0994951	.0013591
#2	.0803649	110.7927	4.277399	308.3563	.0985716	.0009740
#3	.0680675	110.0260	4.275245	307.4411	.0982619	.0013698

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4331275	.1329271	.4807986	3.781512	F 22.65033	.0067993
Stddev	.7298788	.0041144	.0156332	.147940	.02253	.0020039
%RSD	168.5136	3.095193	3.251503	3.912181	.0994499	29.47207
#1	-.223876	.1289476	.4758363	3.876289	22.63406	.0080389
#2	1.218776	.1326697	.4983106	3.611042	22.64090	.0078715
#3	.304482	.1371642	.4682488	3.857205	22.67604	.0044874

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-18 Acquired: 12/17/2024 21:38:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKX6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008852	1.570107	6.159789	.0302822	.5631187	.5118393
Stddev	.0002687	.005998	.043030	.0018830	.0022118	.0013879
%RSD	30.35418	.3820362	.6985582	6.218175	.3927816	.2711637
#1	.0006607	1.573876	6.200272	.0283020	.5618099	.5134190
#2	.0011829	1.563190	6.164495	.0320499	.5656724	.5112835
#3	.0008119	1.573255	6.114599	.0304948	.5618737	.5108155

Elem	Li6707
Units	ppm
Avg	.1397748
Stddev	.0035500
%RSD	2.539791
#1	.1396097
#2	.1434044
#3	.1363102

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2120.751	26629.23	1406.719	1830.878	1999.242
Stddev	8.168	592.31	4.273	42.330	3.840
%RSD	.3851522	2.224296	.3037618	2.312012	.1920510
#1	2111.425	26257.92	1401.811	1809.605	1995.147
#2	2126.635	26317.47	1409.617	1803.403	2002.762
#3	2124.193	27312.31	1408.728	1879.625	1999.817

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-19 Acquired: 12/17/2024 21:42:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKX7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0313698	.0168006	.1263877	.0062093	.0058534	36.86795
Stddev	.0086122	.0085715	.0023244	.0019710	.0014077	.31769
%RSD	27.45373	51.01915	1.839124	31.74202	24.04877	.8616991
#1	.0396604	.0077405	.1253654	.0042956	.0072427	36.51591
#2	.0224686	.0247813	.1290481	.0082330	.0044281	37.13330
#3	.0319803	.0178799	.1247496	.0060994	.0058893	36.95464

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3642631	.0044440	.0025382	F 915.3370	.0669873	.1043720
Stddev	.0046638	.0000726	.0001846	8.7197	.0008471	.0013692
%RSD	1.280340	1.633110	7.273133	.9526172	1.264614	1.311848
#1	.3594197	.0043690	.0026856	905.7208	.0674635	.1032087
#2	.3646458	.0045139	.0023311	922.7294	.0674892	.1058809
#3	.3687237	.0044492	.0025978	917.5607	.0660093	.1040264

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0769899	116.8340	8.853817	151.9776	.1117812	.0026204
Stddev	.0067392	1.2920	.102958	1.1194	.0005506	.0005048
%RSD	8.753420	1.105874	1.162871	.7365539	.4926035	19.26371
#1	.0752722	115.3429	8.738656	150.7560	.1111517	.0020607
#2	.0844218	117.6206	8.936970	152.9541	.1121733	.0027591
#3	.0712758	117.5386	8.885825	152.2227	.1120186	.0030413

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9366580	.0959448	.4226445	5.825252	6.666893	.0042523
Stddev	.8965597	.0057752	.0075643	.284589	.034707	.0040687
%RSD	95.71900	6.019328	1.789759	4.885428	.5205864	95.68294
#1	1.941921	.0896547	.4189805	5.501890	6.631425	-.000086
#2	.648280	.1010080	.4176099	6.037611	6.700785	.007983
#3	.219773	.0971718	.4313431	5.936255	6.668468	.004859

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-19 Acquired: 12/17/2024 21:42:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKX7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000032	.8881812	6.028328	.0222429	.4586865	.4983532
Stddev	.000504	.0092548	.046146	.0020736	.0028351	.0035943
%RSD	1597.620	1.041999	.7654880	9.322411	.6181004	.7212416
#1	.000550	.8812699	5.978150	.0244054	.4583273	.4942872
#2	-.000322	.8986957	6.037888	.0220520	.4616842	.4996655
#3	-.000323	.8845780	6.068945	.0202715	.4560481	.5011071

Elem	Li6707
Units	ppm
Avg	.1269654
Stddev	.0036994
%RSD	2.913682
#1	.1254145
#2	.1242938
#3	.1311877

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2043.942	25221.61	1337.693	1737.264	2076.282
Stddev	5.401	123.61	10.105	9.448	12.045
%RSD	.2642501	.4901005	.7553743	.5438194	.5801201
#1	2049.964	25115.26	1348.858	1730.714	2087.892
#2	2039.526	25192.35	1329.178	1732.983	2063.845
#3	2042.336	25357.23	1335.042	1748.094	2077.110

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-20 Acquired: 12/17/2024 21:46:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKX8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0477162	-.009178	.0965553	.0292505	.0132855	41.20106	.3518589
Stddev	.0011250	.002962	.0022524	.0037553	.0010131	.07160	.0005875
%RSD	2.357705	32.27601	2.332717	12.83835	7.625808	.1737802	.1669695
#1	.0465728	-.007730	.0991560	.0334523	.0123678	41.25139	.3523883
#2	.0477542	-.007218	.0952492	.0262218	.0131160	41.11909	.3512268
#3	.0488218	-.012586	.0952605	.0280774	.0143727	41.23270	.3519616

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0062239	.0030029	725.8353	.0770677	.1184010	.1081295	154.9002
Stddev	.0001127	.0001043	2.7309	.0003686	.0012040	.0139524	.5668
%RSD	1.810960	3.474814	.3762378	.4782916	1.016892	12.90339	.3659147
#1	.0062524	.0030214	726.9339	.0771881	.1194206	.0945073	155.5111
#2	.0060997	.0028905	722.7263	.0766540	.1170727	.1223901	154.3914
#3	.0063196	.0030968	727.8459	.0773611	.1187096	.1074912	154.7982

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.290981	71.15567	.1564057	.0022373	.7554293	.1333667	.4214803
Stddev	.029037	.34749	.0015158	.0001652	.4413854	.0065208	.0084980
%RSD	.3982551	.4883557	.9691160	7.383806	58.42842	4.889370	2.016232
#1	7.324498	71.54646	.1579850	.0023597	.4589054	.1295607	.4188220
#2	7.273457	71.03909	.1549626	.0023029	.5446978	.1408961	.4146293
#3	7.274988	70.88145	.1562695	.0020494	1.262685	.1296432	.4309898

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.618161	5.785629	.0042680	.0002133	.5984240	6.136997	.0275388
Stddev	.067915	.062534	.0012528	.0002200	.0068124	.059274	.0019729
%RSD	.7880453	1.080857	29.35373	103.1444	1.138389	.9658534	7.164196
#1	8.551766	5.816941	.0032960	.0000341	.6040389	6.204802	.0291729
#2	8.687501	5.713624	.0038261	.0001469	.5908455	6.095011	.0280964
#3	8.615218	5.826322	.0056818	.0004589	.6003878	6.111178	.0253470

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-20 Acquired: 12/17/2024 21:46:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKX8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6055327	.3315973	.1266993
Stddev	.0102981	.0015481	.0029317
%RSD	1.700672	.4668596	2.313897
#1	.6027094	.3324073	.1298649
#2	.5969406	.3325722	.1261556
#3	.6169480	.3298122	.1240776

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2142.756	26568.54	1410.684	1841.741	2156.490
Stddev	16.268	89.04	9.176	8.619	19.213
%RSD	.7591898	.3351241	.6504468	.4680067	.8909265
#1	2135.357	26630.94	1400.104	1851.579	2146.158
#2	2161.408	26608.11	1416.469	1838.127	2178.658
#3	2131.503	26466.58	1415.478	1835.517	2144.654

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-21 Acquired: 12/17/2024 21:50:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL58 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0593166	-.008224	.1308965	.0238262	.0132190	37.15581
Stddev	.0035795	.010836	.0016560	.0017655	.0002630	.12390
%RSD	6.034526	131.7708	1.265105	7.409734	1.989831	.3334680
#1	.0610558	.001087	.1292526	.0241388	.0135176	37.25088
#2	.0551999	-.005640	.1308724	.0254144	.0130214	37.20087
#3	.0616942	-.020118	.1325643	.0219253	.0131181	37.01568

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3817379	.0053553	.0032157	F 971.1770	.0627936	.1081800
Stddev	.0017628	.0001095	.0001008	3.8294	.0010101	.0011011
%RSD	.4617919	2.044434	3.134322	.3943036	1.608622	1.017852
#1	.3835942	.0054733	.0033156	972.5733	.0616273	.1081509
#2	.3815331	.0053355	.0031140	974.1122	.0633662	.1070937
#3	.3800864	.0052570	.0032177	966.8453	.0633873	.1092954

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2051830	153.8590	7.492947	180.1566	.1185166	.0030032
Stddev	.0028147	.3190	.000442	.5958	.0009637	.0001476
%RSD	1.371807	.2073506	.0058989	.3307281	.8131459	4.915368
#1	.2078023	153.6507	7.493388	179.9504	.1184245	.0031590
#2	.2055397	154.2263	7.492504	180.8281	.1195230	.0029851
#3	.2022069	153.7001	7.492947	179.6912	.1176022	.0028654

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7848771	.1501446	.5234795	1.557284	7.376598	-.009993
Stddev	.3101994	.0071238	.0077415	.077826	.027312	.000807
%RSD	39.52203	4.744604	1.478853	4.997578	.3702574	8.070340
#1	.9455897	.1564577	.5188512	1.639864	7.382944	-.010238
#2	.4272985	.1515549	.5324167	1.485296	7.346671	-.009093
#3	.9817433	.1424211	.5191705	1.546692	7.400179	-.010650

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-21 Acquired: 12/17/2024 21:50:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL58 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0051675	1.117177	5.364696	.0287950	.6970378	.7024867
Stddev	.0001992	.008988	.028013	.0005046	.0077789	.0010268
%RSD	3.854563	.8045498	.5221746	1.752534	1.116001	.1461623
#1	.0049859	1.118785	5.372821	.0283071	.6957043	.7023605
#2	.0053805	1.107493	5.333518	.0293149	.7053973	.7035707
#3	.0051361	1.125252	5.387748	.0287631	.6900118	.7015289

Elem	Li6707
Units	ppm
Avg	.1353982
Stddev	.0038239
%RSD	2.824180
#1	.1322800
#2	.1342499
#3	.1396647

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2075.439	25589.52	1362.175	1769.352	2088.894
Stddev	8.676	125.99	1.913	11.229	9.716
%RSD	.4180362	.4923556	.1404262	.6346345	.4651194
#1	2071.331	25719.56	1361.712	1778.816	2081.270
#2	2085.406	25468.00	1364.277	1756.945	2099.834
#3	2069.580	25580.98	1360.536	1772.296	2085.577

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-22 Acquired: 12/17/2024 21:54:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL59 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1119734	-.034923	1.567314	.0524317	.0255735	62.85152
Stddev	.0021640	.002857	.020756	.0010902	.0009011	.30821
%RSD	1.932643	8.181868	1.324310	2.079331	3.523393	.4903829
#1	.1127715	-.036559	1.563159	.0511730	.0265673	63.14461
#2	.1095236	-.036587	1.548950	.0530384	.0253435	62.53014
#3	.1136250	-.031624	1.589833	.0530836	.0248097	62.87982

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.677745	.0080333	.0087705	414.4326	.1237283	.1333153
Stddev	.006578	.0001050	.0001074	2.2642	.0010312	.0014762
%RSD	.3920805	1.307214	1.224382	.5463376	.8334713	1.107331
#1	1.685103	.0080241	.0088623	416.6461	.1249138	.1330967
#2	1.672432	.0081426	.0086524	412.1209	.1232329	.1319605
#3	1.675702	.0079332	.0087967	414.5308	.1230383	.1348886

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2738742	181.4896	10.00214	75.26322	.1826142	.0045280
Stddev	.0061395	1.1035	.04114	.37428	.0021714	.0001851
%RSD	2.241729	.6080307	.4112980	.4972963	1.189060	4.088504
#1	.2799468	182.6558	10.04956	75.66221	.1823721	.0043668
#2	.2676699	180.4619	9.97602	74.91987	.1805741	.0047302
#3	.2740061	181.3511	9.98083	75.20759	.1848965	.0044870

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5043722	.1822356	1.978076	6.420764	F 16.07716	-.010067
Stddev	.5060465	.0062988	.004133	.007167	.21399	.002720
%RSD	100.3320	3.456413	.2089578	.1116267	1.331018	27.02228
#1	.6562291	.1813828	1.973973	6.422754	16.02999	-.007955
#2	.9171029	.1764066	1.982239	6.426726	15.89070	-.013137
#3	-.060215	.1889174	1.978015	6.412812	16.31080	-.009111

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-22 Acquired: 12/17/2024 21:54:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL59 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042810	2.859360	6.801422	.1190086	.5218563	.3114918
Stddev	.0002392	.037225	.019316	.0024278	.0059323	.0017000
%RSD	5.586339	1.301860	.2840036	2.040000	1.136764	.5457682
#1	.0042413	2.860098	6.820001	.1206519	.5267578	.3133102
#2	.0040641	2.821771	6.781445	.1162200	.5152615	.3099422
#3	.0045375	2.896210	6.802819	.1201537	.5235496	.3112230

Elem	Li6707
Units	ppm
Avg	.1180253
Stddev	.0121156
%RSD	10.26523
#1	.1280334
#2	.1214869
#3	.1045557

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2235.724	27471.79	1447.147	1906.372	2266.894
Stddev	16.950	88.94	5.347	10.284	23.106
%RSD	.7581569	.3237636	.3694923	.5394596	1.019283
#1	2231.530	27371.57	1444.587	1912.535	2262.909
#2	2254.377	27541.34	1453.293	1912.080	2291.733
#3	2221.264	27502.46	1443.562	1894.499	2246.040

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-01 Acquired: 12/17/2024 21:57:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKZ7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0368890	.0096637	.1089955	.0208897	.0113748	51.29150
Stddev	.0023671	.0037552	.0046350	.0040422	.0023772	.40457
%RSD	6.416738	38.85834	4.252441	19.35019	20.89878	.7887602
#1	.0386421	.0119408	.1073515	.0203351	.0120152	51.71768
#2	.0341964	.0053295	.1142284	.0171534	.0133662	50.91272
#3	.0378285	.0117209	.1054066	.0251805	.0087430	51.24410

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.115303	.0066397	.0081857	F 1542.495	.1109900	.1445479
Stddev	.008107	.0000454	.0002210	12.385	.0004410	.0009570
%RSD	.7269225	.6844059	2.700307	.8029425	.3973286	.6620998
#1	1.124389	.0065999	.0081296	1553.792	.1109368	.1436130
#2	1.108807	.0066301	.0079982	1529.252	.1105780	.1445050
#3	1.112715	.0066892	.0084294	1544.442	.1114552	.1455257

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0904967	155.0686	14.16240	43.23972	.2018949	.0036772
Stddev	.0110571	1.1419	.10899	.13246	.0002695	.0007746
%RSD	12.21826	.7363760	.7695498	.3063472	.1334630	21.06422
#1	.1015693	156.2076	14.27745	43.39237	.2021526	.0032883
#2	.0904657	153.9238	14.06071	43.17186	.2019172	.0045692
#3	.0794551	155.0745	14.14904	43.15494	.2016150	.0031741

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9832019	.1126501	.3315563	9.223359	5.329773	.0377517
Stddev	.8843352	.0067446	.0090501	.088324	.014924	.0029275
%RSD	89.94441	5.987240	2.729568	.9576076	.2800184	7.754636
#1	1.280301	.1191344	.3420003	9.198989	5.319829	.0402715
#2	-.011426	.1056722	.3266429	9.149779	5.322556	.0345403
#3	1.680730	.1131436	.3260256	9.321309	5.346934	.0384434

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-01 Acquired: 12/17/2024 21:57:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKZ7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001366	1.321994	5.913782	.0290285	1.023302	.6661909
Stddev	.000385	.013799	.022417	.0027394	.011563	.0042796
%RSD	28.21111	1.043806	.3790585	9.436836	1.129976	.6424015
#1	-.001171	1.311560	5.932908	.0297647	1.032745	.6706612
#2	-.001116	1.316783	5.919323	.0313245	1.010406	.6621315
#3	-.001809	1.337640	5.889114	.0259962	1.026756	.6657802

Elem	Li6707
Units	ppm
Avg	.1827562
Stddev	.0035581
%RSD	1.946936
#1	.1863217
#2	.1827412
#3	.1792055

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2122.858	25933.23	1411.064	1810.313	2040.729
Stddev	5.034	136.67	8.876	6.527	4.138
%RSD	.2371479	.5270118	.6290033	.3605665	.2027613
#1	2117.744	25782.30	1400.872	1802.785	2037.677
#2	2123.020	26048.62	1415.228	1813.762	2045.439
#3	2127.809	25968.75	1417.093	1814.393	2039.073

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-02 Acquired: 12/17/2024 22:01:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKZ8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0339425	.0143724	.1077651	.0179900	.0097142	47.01025
Stddev	.0013212	.0044290	.0031526	.0078463	.0032198	.19905
%RSD	3.892575	30.81617	2.925394	43.61462	33.14575	.4234115
#1	.0325491	.0099544	.1075716	.0100652	.0062216	46.82848
#2	.0341011	.0188124	.1047137	.0181495	.0125644	47.22295
#3	.0351772	.0143504	.1110099	.0257554	.0103566	46.97931

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.087844	.0057389	.0068557	F 1556.982	.1002526	.1433117
Stddev	.005562	.0001623	.0001786	8.741	.0007327	.0009125
%RSD	.5112869	2.828106	2.605170	.5614209	.7308178	.6367391
#1	1.083794	.0056159	.0066641	1547.233	.1003462	.1437556
#2	1.094186	.0056780	.0068854	1564.122	.1009339	.1422622
#3	1.085553	.0059229	.0070176	1559.590	.0994775	.1439175

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1269322	142.1924	14.39829	54.12767	.1855229	.0031277
Stddev	.0047364	.7996	.08103	.34030	.0022505	.0002666
%RSD	3.731400	.5623073	.5628078	.6287035	1.213046	8.525122
#1	.1256677	141.2919	14.30505	53.81133	.1829383	.0028249
#2	.1229564	142.4662	14.45175	54.08396	.1865815	.0032306
#3	.1321724	142.8191	14.43807	54.48771	.1870488	.0033275

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5491101	.1077270	.2942149	8.856444	5.114225	.0379407
Stddev	.5778231	.0104408	.0142803	.129498	.034057	.0009342
%RSD	105.2290	9.691916	4.853695	1.462189	.6659178	2.462333
#1	-.117301	.1196627	.3017467	8.856516	5.081394	.0370613
#2	.854007	.1032306	.2777454	8.985907	5.111894	.0378393
#3	.910625	.1002877	.3031525	8.726911	5.149387	.0389215

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-02 Acquired: 12/17/2024 22:01:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKZ8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001864	1.433515	5.707949	.0315935	1.039733	.7696457
Stddev	.000328	.005065	.017870	.0002936	.009214	.0026972
%RSD	17.61057	.3533114	.3130690	.9294095	.8861690	.3504514
#1	-.001593	1.430800	5.694888	.0313293	1.031230	.7673100
#2	-.001770	1.430387	5.700646	.0315416	1.049522	.7725977
#3	-.002229	1.439359	5.728314	.0319096	1.038445	.7690292

Elem	Li6707
Units	ppm
Avg	.1702834
Stddev	.0055035
%RSD	3.231966
#1	.1652555
#2	.1694315
#3	.1761631

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2063.321	25259.48	1379.021	1755.053	2026.028
Stddev	7.923	25.54	4.004	1.458	7.385
%RSD	.3840023	.1011285	.2903265	.0830938	.3645301
#1	2069.438	25280.24	1381.243	1753.380	2031.239
#2	2066.154	25230.95	1381.421	1755.730	2029.269
#3	2054.370	25267.26	1374.399	1756.050	2017.576

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-03 Acquired: 12/17/2024 22:05:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKZ9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0711236	.0147327	.2217443	.0059787	.0094316	44.85092
Stddev	.0030946	.0062856	.0028351	.0041260	.0013155	.10578
%RSD	4.350965	42.66439	1.278541	69.01034	13.94802	.2358555
#1	.0702407	.0200631	.2250047	.0013997	.0093559	44.76318
#2	.0745637	.0163336	.2203692	.0094075	.0107834	44.96838
#3	.0685665	.0078015	.2198589	.0071290	.0081556	44.82120

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6738803	.0055296	.0042900	F 1424.780	.0987375	.1325040
Stddev	.0013687	.0001612	.0000878	1.383	.0012075	.0003141
%RSD	.2031128	2.915243	2.047343	.0970526	1.222903	.2370575
#1	.6723503	.0057123	.0041902	1423.833	.0985063	.1323302
#2	.6749883	.0054692	.0043555	1424.140	.0976623	.1328666
#3	.6743025	.0054073	.0043244	1426.367	.1000438	.1323153

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2784630	131.7021	9.465628	172.5769	.1518918	.0025323
Stddev	.0146862	.5759	.022671	.3992	.0016338	.0005120
%RSD	5.274035	.4372472	.2395047	.2313324	1.075647	20.21989
#1	.2767675	131.0472	9.454317	172.1903	.1532084	.0027327
#2	.2646981	132.1294	9.491729	172.9877	.1500633	.0019504
#3	.2939234	131.9296	9.450839	172.5528	.1524036	.0029139

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.035866	.1100026	.4989864	8.478514	4.301966	.0452025
Stddev	.508972	.0194329	.0142641	.232590	.007696	.0015348
%RSD	49.13487	17.66582	2.858620	2.743285	.1788945	3.395300
#1	.480144	.0934928	.4840776	8.732498	4.310776	.0464608
#2	1.479353	.1050967	.5003775	8.427133	4.296558	.0456540
#3	1.148102	.1314183	.5125040	8.275910	4.298562	.0434926

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-03 Acquired: 12/17/2024 22:05:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKZ9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000702	2.042273	5.777313	.0297335	.6942864	1.078180
Stddev	.000771	.018769	.014077	.0021790	.0056767	.002571
%RSD	109.8130	.9190024	.2436677	7.328487	.8176269	.2384136
#1	-.001393	2.061632	5.765927	.0322090	.6879394	1.075486
#2	-.000843	2.041030	5.772960	.0281059	.6988782	1.080606
#3	.000130	2.024157	5.793053	.0288856	.6960415	1.078447

Elem	Li6707
Units	ppm
Avg	.1593727
Stddev	.0069121
%RSD	4.337097
#1	.1522876
#2	.1660979
#3	.1597327

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1976.553	24068.56	1299.376	1670.666	2011.055
Stddev	4.992	233.66	5.256	15.623	3.568
%RSD	.2525393	.9708296	.4044930	.9351634	.1774228
#1	1975.151	24225.28	1305.443	1681.606	2007.711
#2	1972.411	24180.39	1296.196	1677.618	2010.641
#3	1982.095	23799.99	1296.489	1652.773	2014.811

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-04 Acquired: 12/17/2024 22:09:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL00 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1176383	-.053444	.5261779	.0637595	.0264461	60.63953	.6405214
Stddev	.0047785	.001986	.0045729	.0032680	.0016628	.20955	.0022821
%RSD	4.062012	3.715438	.8690769	5.125512	6.287594	.3455703	.3562850
#1	.1166238	-.053504	.5314461	.0668450	.0246124	60.46826	.6379843
#2	.1228426	-.051429	.5232342	.0603354	.0278560	60.57714	.6424066
#3	.1134486	-.055399	.5238534	.0640982	.0268699	60.87319	.6411732

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0078624	.0041805	32.28433	.1048437	.0868760	.1834439	148.9017
Stddev	.0000931	.0000859	.01439	.0010524	.0005292	.0084138	.3949
%RSD	1.184468	2.054035	.0445808	1.003822	.6092042	4.586565	.2652286
#1	.0078426	.0041461	32.30052	.1057788	.0872850	.1762180	148.4624
#2	.0077807	.0042783	32.27951	.1050482	.0870647	.1926810	149.2275
#3	.0079638	.0041172	32.27297	.1037039	.0862783	.1814327	149.0151

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.856040	16.15019	.1584332	.0043185	.6571642	.1974738	.5167101
Stddev	.018341	.12064	.0002660	.0012375	.2542993	.0015756	.0048991
%RSD	.3131971	.7469736	.1678674	28.65553	38.69647	.7978996	.9481352
#1	5.834864	16.13700	.1586659	.0053902	.4456040	.1977079	.5132060
#2	5.866337	16.03668	.1581433	.0029641	.9392958	.1957942	.5223082
#3	5.866917	16.27688	.1584904	.0046011	.5865929	.1989193	.5146162

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.481870	4.881781	-.023329	.0056385	3.162849	7.221480	.0404115
Stddev	.065445	.014851	.002949	.0003264	.005247	.077041	.0012617
%RSD	1.193836	.3042098	12.64013	5.788090	.1658911	1.066827	3.122212
#1	5.548168	4.875413	-.020426	.0059148	3.165502	7.272286	.0397780
#2	5.480128	4.871177	-.023239	.0052784	3.156806	7.132837	.0418645
#3	5.417313	4.898754	-.026322	.0057224	3.166240	7.259317	.0395922

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-04 Acquired: 12/17/2024 22:09:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL00 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.9570757	-.060983	.0721821
Stddev	.0088238	.000350	.0032354
%RSD	.9219504	.5744608	4.482227
#1	.9474672	-.060644	.0729765
#2	.9648152	-.060963	.0686235
#3	.9589448	-.061343	.0749463

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2215.307	27179.09	1364.759	1899.211	2458.366
Stddev	6.014	192.67	9.912	16.623	9.588
%RSD	.2714609	.7089050	.7262837	.8752625	.3900264
#1	2213.342	27370.52	1363.152	1912.943	2449.900
#2	2210.521	26985.20	1375.376	1880.730	2456.419
#3	2222.057	27181.55	1355.748	1903.959	2468.778

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: CCV052 Acquired: 12/17/2024 22:13:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: CCV052 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.102856	5.009256	24.62621	5.065614	5.030107	401.1625	10.20215
Stddev	.023152	.046232	.16244	.046371	.044333	1.1943	.03309
%RSD	.4537084	.9229355	.6596089	.9154039	.8813543	.2977054	.3243552
#1	5.083732	4.972319	24.53766	5.028771	5.001608	400.7161	10.17665
#2	5.096242	4.994345	24.52730	5.050388	5.007530	400.2556	10.19027
#3	5.128596	5.061104	24.81368	5.117684	5.081185	402.5156	10.23955

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5153395	2.508084	405.0612	15.68449	2.495370	15.20173	412.8513
Stddev	.0006895	.016146	.6735	.13393	.017562	.07797	1.7292
%RSD	.1337895	.6437733	.1662825	.8539215	.7037993	.5128786	.4188532
#1	.5157514	2.497876	404.9213	15.68942	2.487515	15.17383	412.0256
#2	.5145435	2.499677	404.4685	15.81589	2.483107	15.14155	411.6897
#3	.5157236	2.526700	405.7937	15.54816	2.515489	15.28980	414.8386

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.47092	408.2377	2.495809	1.286863	401.4745	2.540090	15.36091
Stddev	.07010	2.1501	.014687	.011650	2.5189	.016706	.06540
%RSD	.4531376	.5266710	.5884542	.9053407	.6274148	.6576809	.4257772
#1	15.44015	407.5590	2.488547	1.288543	400.1926	2.526059	15.36262
#2	15.42147	406.5090	2.486168	1.297582	399.8544	2.558570	15.42545
#3	15.55115	410.6453	2.512712	1.274464	404.3765	2.535641	15.29468

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	154.2892	4.971819	4.906183	4.752151	4.940700	5.049636	5.019453
Stddev	.8217	.030098	.017944	.042902	.034303	.016026	.032446
%RSD	.5325908	.6053687	.3657358	.9027842	.6942846	.3173653	.6464143
#1	153.5761	4.951973	4.918052	4.721450	4.923316	5.061199	4.995669
#2	154.1037	4.957034	4.885540	4.733832	4.918571	5.031342	5.006276
#3	155.1878	5.006450	4.914956	4.801171	4.980215	5.056365	5.056416

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: CCV052 Acquired: 12/17/2024 22:13:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: CCV052 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	5.055358	4.809335	5.136304
Stddev	.027761	.028460	.053335
%RSD	.5491491	.5917641	1.038401
#1	5.039448	4.801116	5.112172
#2	5.039211	4.785889	5.099299
#3	5.087414	4.841000	5.197440

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1521.116	20535.38	1113.742	1350.431	1979.485
Stddev	8.694	151.57	4.460	8.720	6.575
%RSD	.5715828	.7380780	.4004184	.6457373	.3321628
#1	1527.879	20557.18	1114.707	1355.204	1981.997
#2	1524.161	20374.09	1117.640	1340.367	1984.433
#3	1511.309	20674.86	1108.879	1355.723	1972.024

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: CCB052 Acquired: 12/17/2024 22:16:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: CCB052 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002934	.0055183	.0006103	-.003264	-.001856	-.003620	.0015289
Stddev	.0046512	.0018718	.0020356	.003484	.000966	.017060	.0012471
%RSD	1585.583	33.91934	333.5186	106.7489	52.03858	471.2252	81.56952
#1	.0025381	.0049921	.0022281	.000714	-.000968	-.020227	.0029107
#2	-.005055	.0075969	-.001675	-.004729	-.001715	.013860	.0004870
#3	.003396	.0039660	.001278	-.005776	-.002885	-.004495	.0011889

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000038	-.000046	-.042130	.0012022	-.000182	-.001153	-.006408
Stddev	.000034	.000016	.051446	.0005941	.000539	.012673	.033578
%RSD	87.54411	34.31379	122.1119	49.41446	295.9016	1099.098	523.9762
#1	-.000058	-.000035	-.003298	.0018881	-.000077	.010265	.029051
#2	.000000	-.000040	-.100478	.0008690	-.000766	.001064	-.010556
#3	-.000057	-.000065	-.022614	.0008495	.000296	-.014788	-.037720

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001667	.0387736	.0004152	.0009111	-1.25522	.0022461	.0147068
Stddev	.0023215	.0543274	.0009857	.0006821	1.09992	.0206652	.0143748
%RSD	1392.749	140.1143	237.4137	74.86563	87.62761	920.0544	97.74231
#1	.0018180	-.000337	.0014609	.0001471	-.27515	.0061041	-.001297
#2	.0011698	.015853	.0002816	.0011273	-2.44484	.0207104	.018895
#3	-.002488	.100805	-.000497	.0014590	-1.04568	-.020076	.026522

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0707996	-.001242	.0137667	.0001217	.0022713	.0007391	-.000064
Stddev	.1460536	.003983	.0048199	.0003292	.0027206	.0008693	.001368
%RSD	206.2917	320.5279	35.01135	270.5266	119.7824	117.6192	2148.871
#1	.2117100	.000774	.0192859	-.000028	-.000049	.0012571	-.000976
#2	.0805928	.001329	.0116284	.000499	.001597	.0012248	.001509
#3	-.079904	-.005830	.0103860	-.000106	.005266	-.000265	-.000724

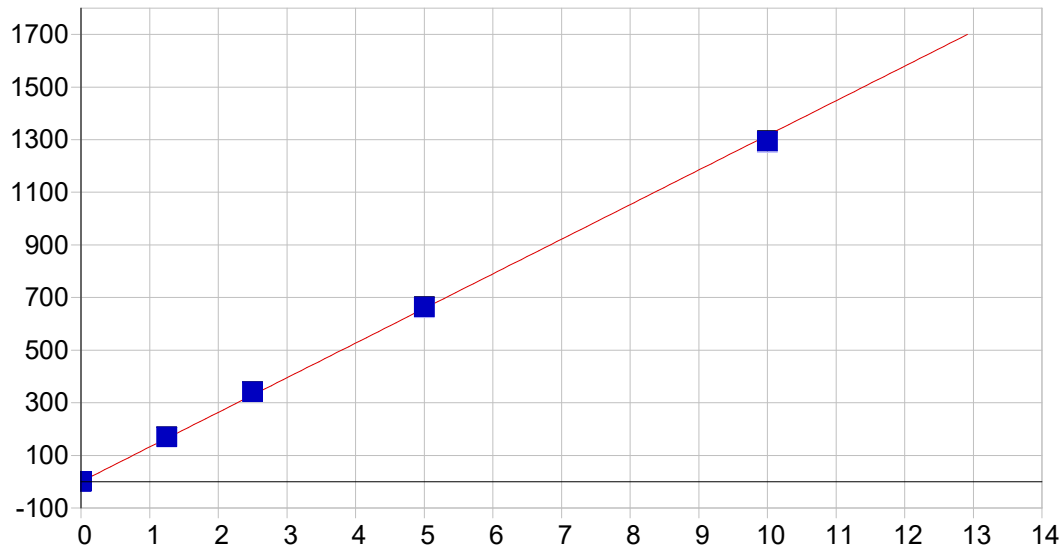
Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: CCB052 Acquired: 12/17/2024 22:16:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: CCB052 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.003852	.0001509	.0148039
Stddev	.003106	.0002400	.0032906
%RSD	80.62711	159.0643	22.22798
#1	-.006879	.0004074	.0118025
#2	-.000673	-.000068	.0142867
#3	-.004005	.000114	.0183225

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1840.925	22739.89	1141.505	1581.170	2450.138
Stddev	28.326	23.36	6.281	3.400	39.716
%RSD	1.538709	.1027463	.5502352	.2150127	1.620969
#1	1851.269	22713.82	1134.273	1581.710	2467.884
#2	1862.626	22746.89	1145.592	1584.267	2477.886
#3	1808.880	22758.95	1144.650	1577.533	2404.643

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



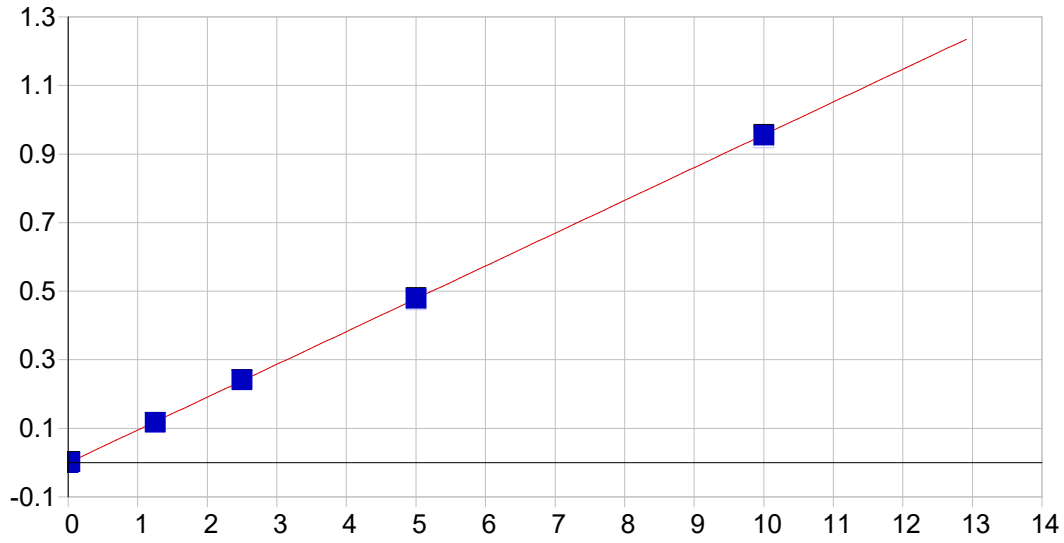
As 189.042 {478}

Date of Fit:	01/03/2025 12:56:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.189867	Re-Slope:	1.000000
A1 (Gain):	131.619343	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999767	Status:	OK.
Std Error of Est:	0.047478		
Predicted MDL:	0.006415		
Predicted MQL:	0.021383		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.18942	.735	1
S1	.01000	.01283	.003	28.3	1.8764	.338	1
S2	1.2500	1.2875	.038	3.00	168.96	.251	1
S3	2.5000	2.5926	.093	3.70	340.05	.802	1
S4	5.0000	5.0403	.040	.805	660.82	1.07	1
S5	10.000	9.8268	-.173	-1.73	1288.1	3.21	1

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



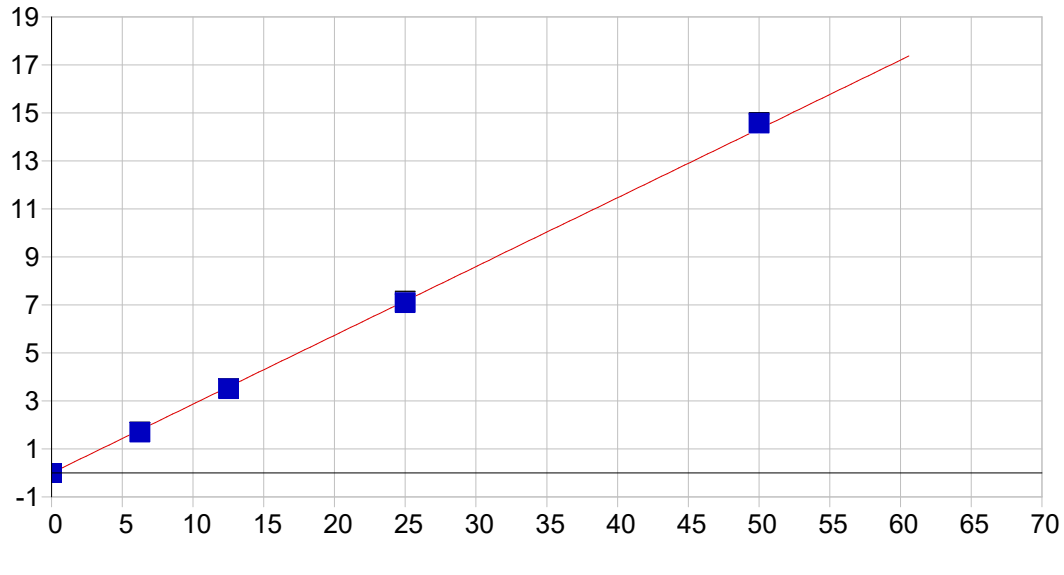
Tl 190.856 {477}

Date of Fit:	01/03/2025 12:56:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000448	Re-Slope:	1.000000
A1 (Gain):	0.095659	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999976	Status:	OK.
Std Error of Est:	0.000018		
Predicted MDL:	0.003413		
Predicted MQL:	0.011377		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00045	.000	1
S1	.02500	.02701	.002	8.03	.00205	.000	1
S2	1.2500	1.2301	-.020	-1.59	.11620	.000	1
S3	2.5000	2.5309	.031	1.24	.23960	.000	1
S4	5.0000	5.0061	.006	.121	.47432	.003	1
S5	10.000	9.9810	-.019	-.190	.94611	.003	1

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



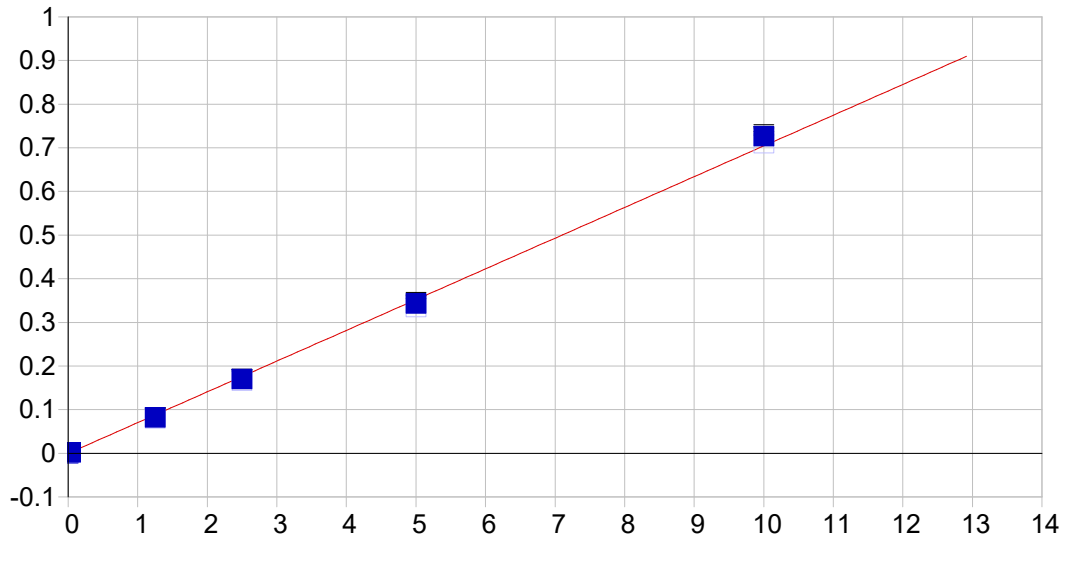
Pb 220.353 {453}

Date of Fit:	01/03/2025 12:56:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000676	Re-Slope:	1.000000
A1 (Gain):	0.286633	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999791	Status:	OK.
Std Error of Est:	0.000219		
Predicted MDL:	0.003062		
Predicted MQL:	0.010207		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00068	.001	1
S1	.01000	.01070	.001	7.05	.00237	.000	1
S2	6.2500	5.9191	-.331	-5.29	1.6925	.001	1
S3	12.500	12.232	-.268	-2.14	3.4986	.005	1
S4	25.000	24.771	-.229	-.917	7.0856	.054	1
S5	50.000	50.827	.827	1.65	14.541	.032	1

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



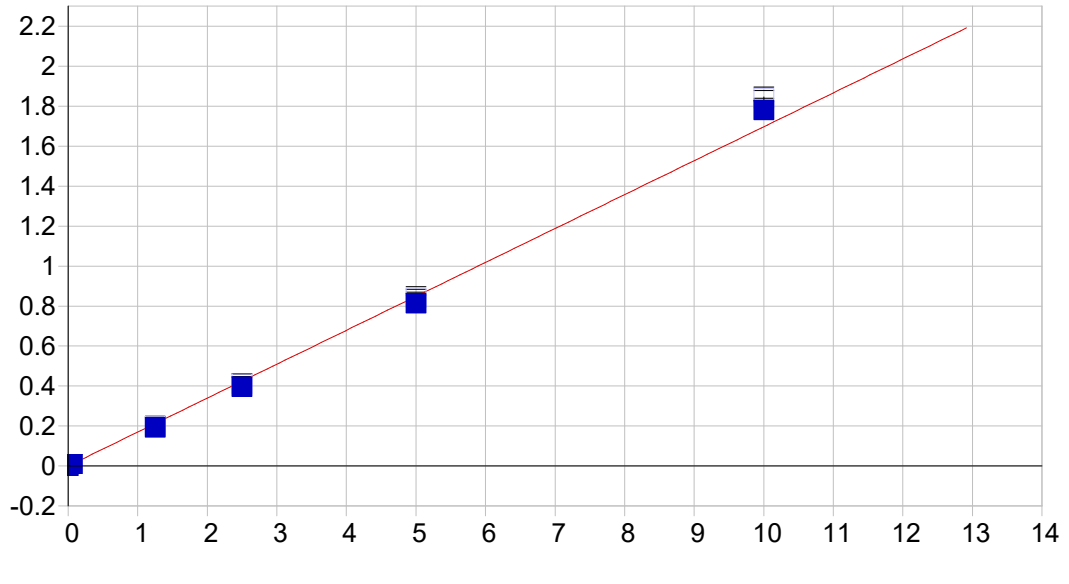
Se 196.090 {472}

Date of Fit:	01/03/2025 12:56:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000127	Re-Slope:	1.000000
A1 (Gain):	0.070441	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999349	Status:	OK.
Std Error of Est:	0.000078		
Predicted MDL:	0.006053		
Predicted MQL:	0.020176		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00013	.000	1
S1	.03500	.03005	-.005	-14.1	.00198	.001	1
S2	1.2500	1.1595	-.090	-7.24	.07957	.000	1
S3	2.5000	2.4129	-.087	-3.48	.16588	.000	1
S4	5.0000	4.8703	-.130	-2.59	.33502	.003	1
S5	10.000	10.312	.312	3.12	.71043	.004	1

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



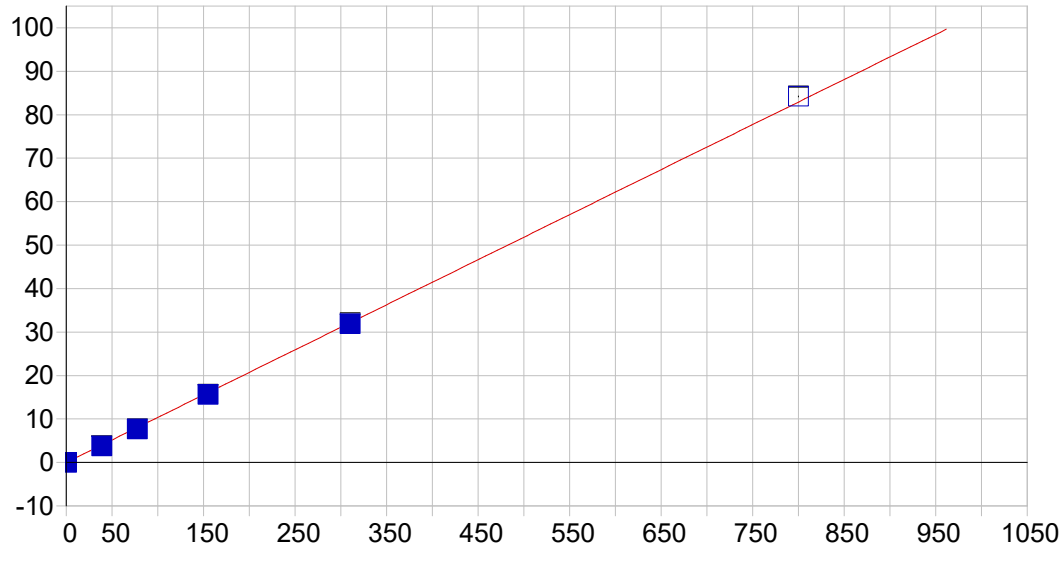
Sb 206.833 {463}

Date of Fit:	01/03/2025 12:56:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000032	Re-Slope:	1.000000
A1 (Gain):	0.169726	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998614	Status:	OK.
Std Error of Est:	0.000380		
Predicted MDL:	0.003498		
Predicted MQL:	0.011660		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00003	.000	1
S1	.06000	.05818	-.002	-3.04	.00985	.000	1
S2	1.2500	1.1300	-.120	-9.60	.19884	.001	1
S3	2.5000	2.3361	-.164	-6.56	.41064	.001	1
S4	5.0000	4.7898	-.210	-4.20	.84129	.007	1
S5	10.000	10.496	.496	4.96	1.8381	.009	1

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



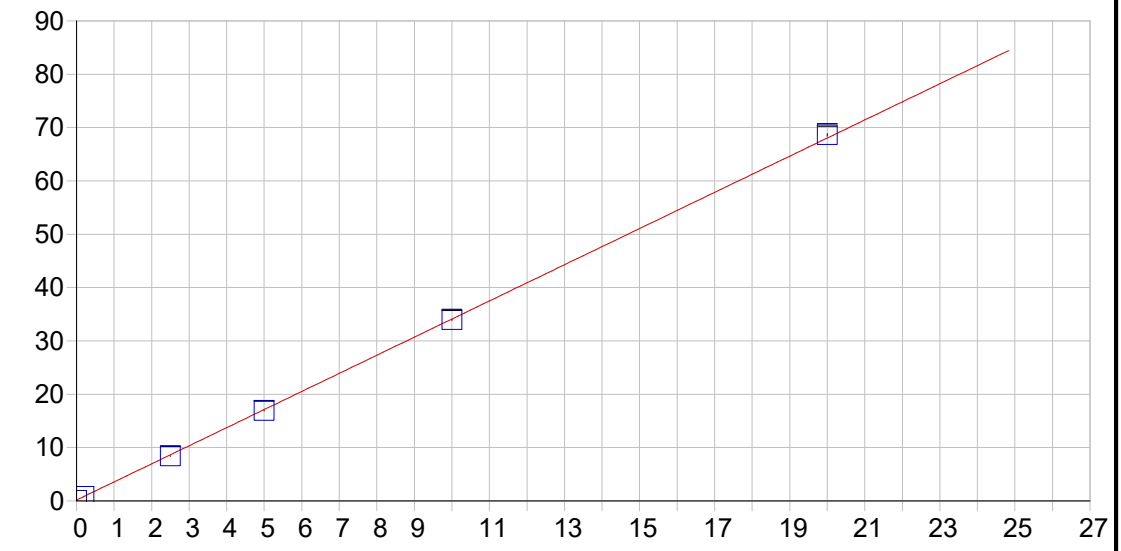
Al 396.152 { 85}

Date of Fit:	01/03/2025 12:56:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001819	Re-Slope:	1.000000
A1 (Gain):	0.103654	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999769	Status:	OK.
Std Error of Est:	0.001387		
Predicted MDL:	0.032035		
Predicted MQL:	0.106784		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00004	.000	.000	-.00182	.001	1
S1	.20000	.18763	-.012	-6.19	.01766	.006	1
S2	38.750	36.602	-2.15	-5.54	3.7965	.012	1
S3	77.500	73.886	-3.61	-4.66	7.6655	.009	1
S4	155.00	150.44	-4.56	-2.94	15.609	.062	1
S5	310.00	307.69	-2.31	-.744	31.927	.170	1
S6	800.00	812.65	12.7	1.58	84.233	.114	1

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



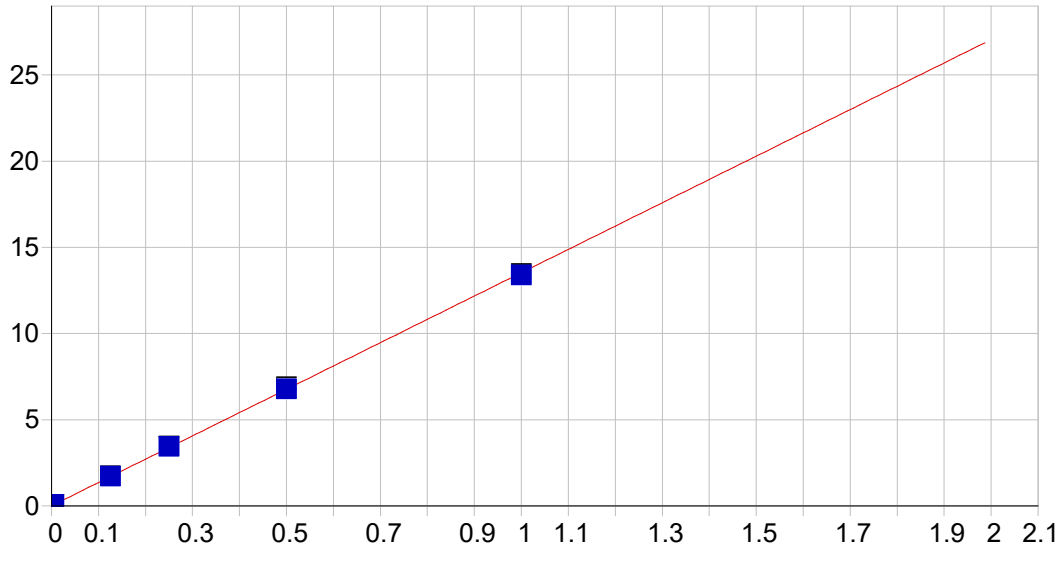
Ba 493.409 { 68}

Date of Fit:	01/03/2025 12:56:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.167881	Re-Slope:	1.000000
A1 (Gain):	3.393608	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999935	Status:	OK.
Std Error of Est:	0.004102		
Predicted MDL:	0.002541		
Predicted MQL:	0.008469		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.16789	.013	1
S1	.20000	.20599	.006	2.99	.86692	.008	1
S2	2.5000	2.4226	-.077	-3.10	8.3892	.049	1
S3	5.0000	4.9397	-.060	-1.21	16.931	.049	1
S4	10.000	9.9626	-.037	-.374	33.977	.113	1
S5	20.000	20.169	.169	.846	68.614	.238	1

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



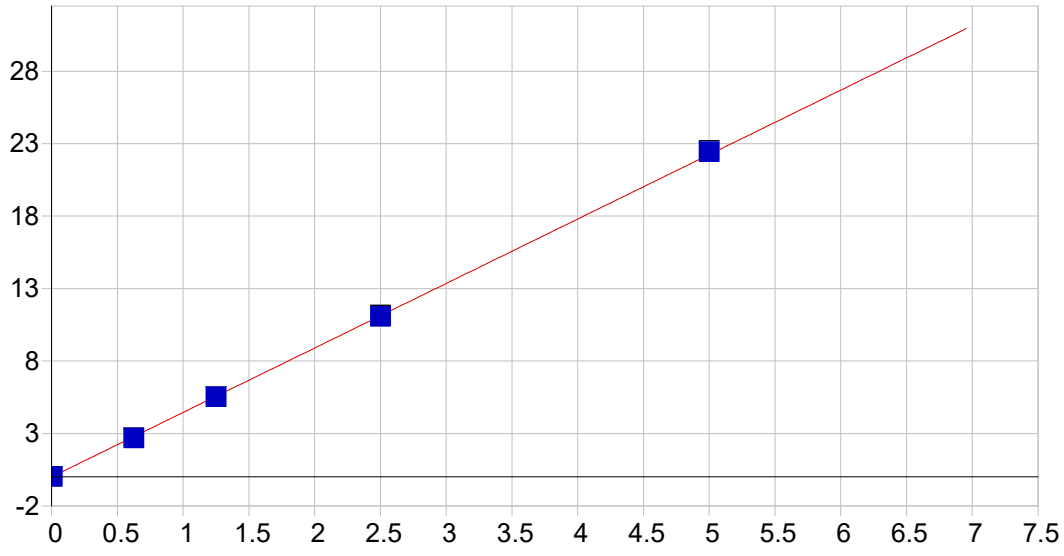
Be 234.861 {144}

Date of Fit:	01/03/2025 12:56:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004962	Re-Slope:	1.000000
A1 (Gain):	13.524085	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999935	Status:	OK.
Std Error of Est:	0.000575		
Predicted MDL:	0.000140		
Predicted MQL:	0.000468		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00495	.001	1
S1	.00500	.00542	.000	8.37	.07818	.000	1
S2	.12500	.12709	.002	1.67	1.7160	.003	1
S3	.25000	.25454	.005	1.82	3.4319	.022	1
S4	.50000	.50197	.002	.394	6.7626	.107	1
S5	1.0000	.99098	-.009	-.902	13.345	.078	1

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



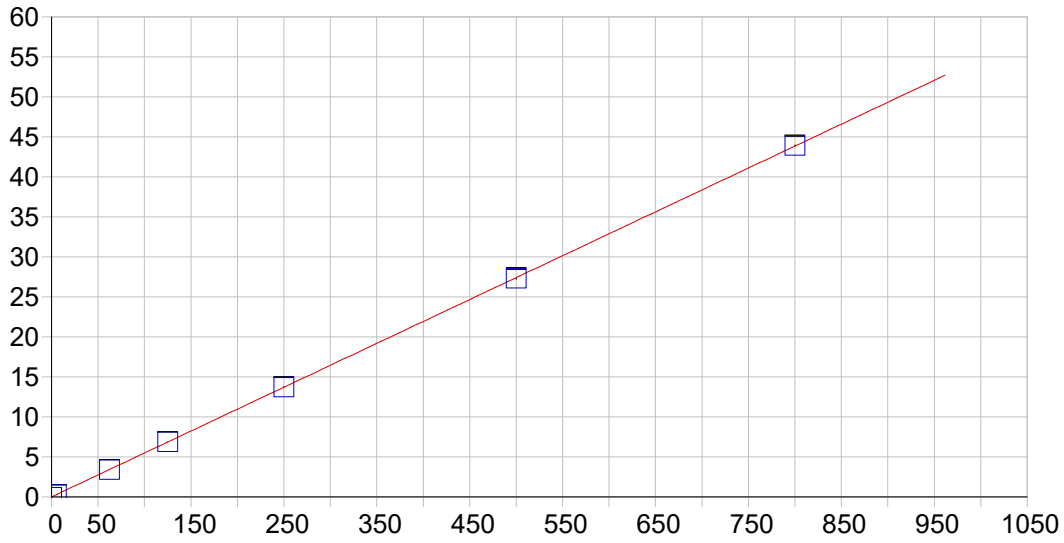
Cd 214.438 {457}

Date of Fit:	01/03/2025 12:56:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000501	Re-Slope:	1.000000
A1 (Gain):	4.450103	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999929	Status:	OK.
Std Error of Est:	0.000445		
Predicted MDL:	0.000108		
Predicted MQL:	0.000359		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00050	.001	1
S1	.00500	.00502	.000	.330	.02291	.000	1
S2	.62500	.60175	-.023	-3.72	2.6826	.002	1
S3	1.2500	1.2433	-.007	-.537	5.5418	.008	1
S4	2.5000	2.4872	-.013	-.512	11.086	.087	1
S5	5.0000	5.0428	.043	.855	22.475	.060	1

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



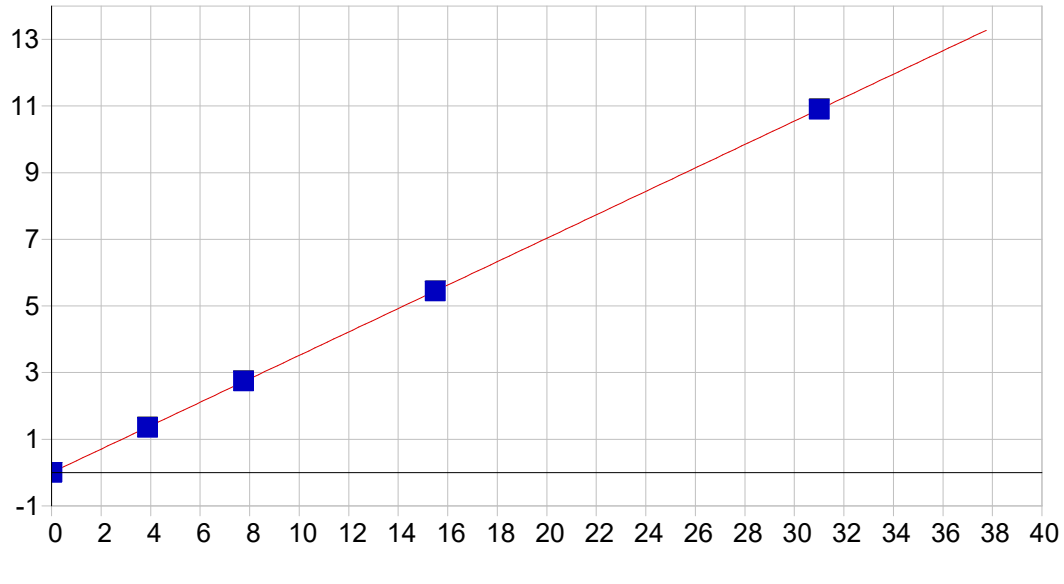
Ca 373.690 { 90}

Date of Fit: 01/03/2025 12:56:42 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset):	0.011547	Re-Slope:	1.000000
A1 (Gain):	0.054802	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999994	Status:	OK.
Std Error of Est:	0.000688		
Predicted MDL:	0.042289		
Predicted MQL:	0.140964		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00019	-.000	.000	.01154	.004	1
S1	5.0000	5.2021	.202	4.04	.29663	.003	1
S2	62.500	62.059	-.441	-.706	3.4125	.011	1
S3	125.00	125.66	.657	.526	6.8978	.025	1
S4	250.00	250.31	.309	.123	13.729	.058	1
S5	500.00	498.25	-1.75	-.350	27.317	.125	1
S6	800.00	801.02	1.02	.128	43.909	.084	1

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



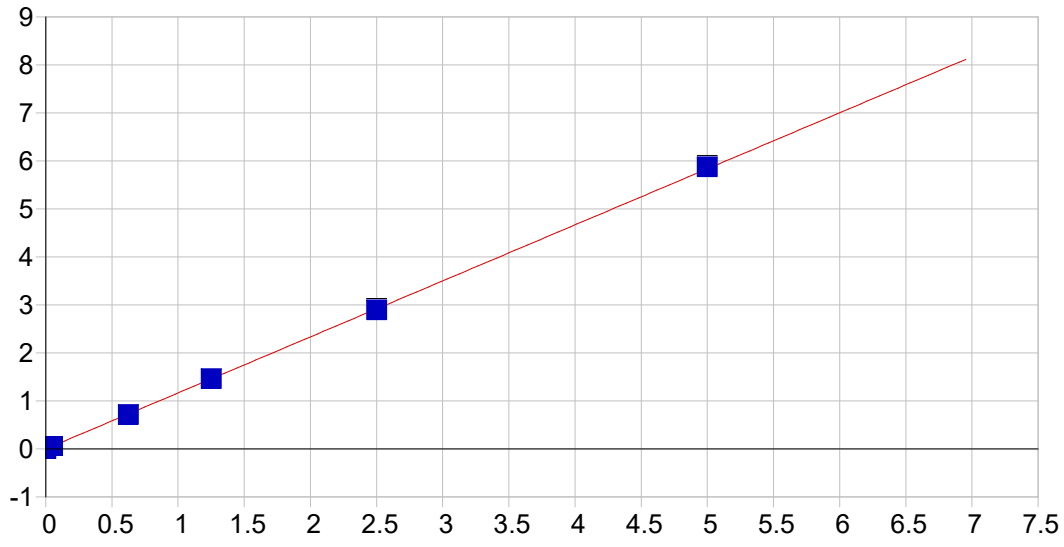
Cr 267.716 {126}

Date of Fit:	01/03/2025 12:56:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000110	Re-Slope:	1.000000
A1 (Gain):	0.351633	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999995	Status:	OK.
Std Error of Est:	0.000032		
Predicted MDL:	0.000896		
Predicted MQL:	0.002986		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00011	.000	1
S1	.01000	.01066	.001	6.64	.00364	.000	1
S2	3.8750	3.8525	-.022	-.579	1.3556	.006	1
S3	7.7500	7.8017	.052	.667	2.7453	.006	1
S4	15.500	15.486	-.014	-.090	5.4495	.006	1
S5	31.000	30.984	-.016	-.051	10.903	.016	1

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



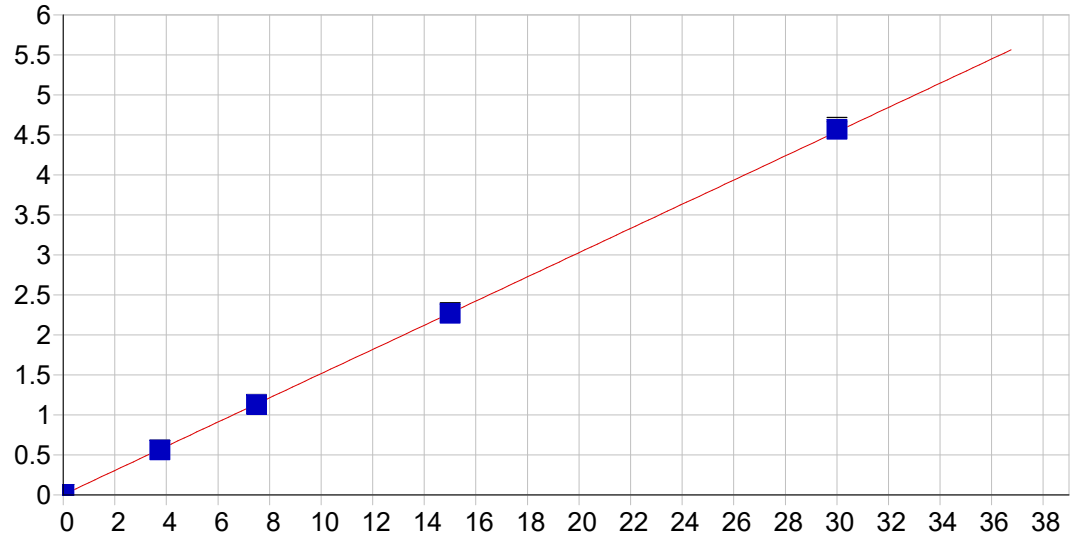
Co 228.616 {448}

Date of Fit:	01/03/2025 12:56:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000821	Re-Slope:	1.000000
A1 (Gain):	1.167159	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999965	Status:	OK.
Std Error of Est:	0.000260		
Predicted MDL:	0.000441		
Predicted MQL:	0.001469		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00082	.001	1
S1	.05000	.05107	.001	2.15	.05898	.000	1
S2	.62500	.61131	-.014	-2.19	.71503	.001	1
S3	1.2500	1.2509	.001	.073	1.4639	.003	1
S4	2.5000	2.4808	-.019	-.770	2.9040	.025	1
S5	5.0000	5.0309	.031	.619	5.8899	.015	1

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



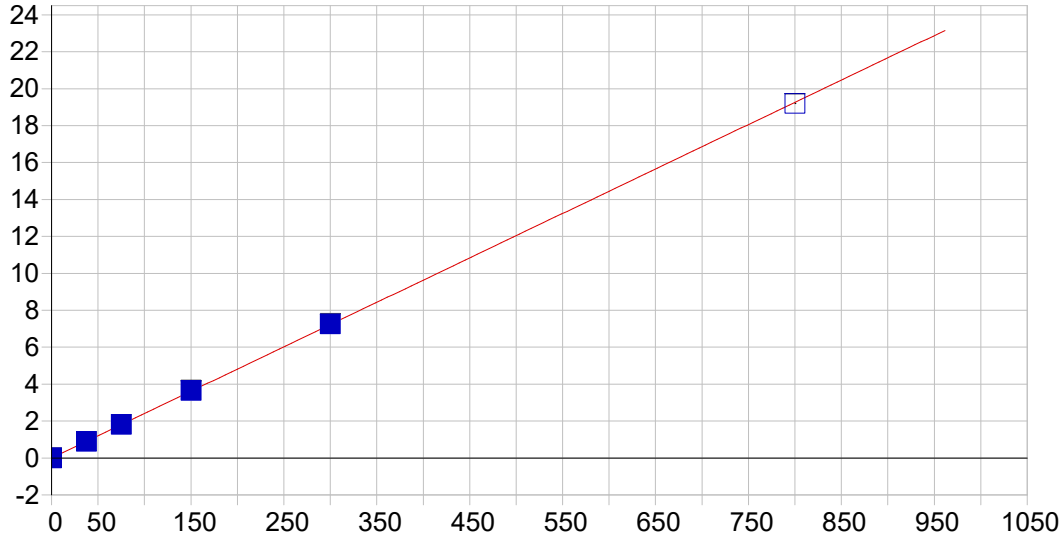
Cu 324.754 {104}

Date of Fit:	01/03/2025 12:56:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003132	Re-Slope:	1.000000
A1 (Gain):	0.151250	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999962	Status:	OK.
Std Error of Est:	0.000060		
Predicted MDL:	0.009883		
Predicted MQL:	0.032942		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00313	.001	1
S1	.02500	.01979	-.005	-20.8	.00612	.001	1
S2	3.7500	3.6716	-.078	-2.09	.55841	.001	1
S3	7.5000	7.4430	-.057	-.761	1.1288	.002	1
S4	15.000	14.965	-.035	-.233	2.2664	.010	1
S5	30.000	30.176	.176	.585	4.5667	.027	1

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



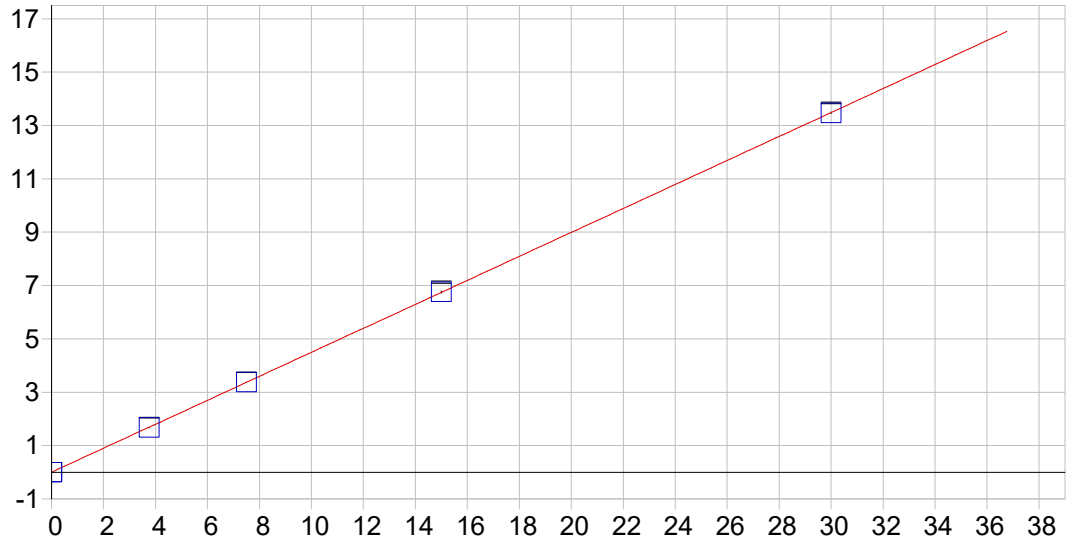
Fe 259.837 {130}

Date of Fit:	01/03/2025 12:56:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000208	Re-Slope:	1.000000
A1 (Gain):	0.024081	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999987	Status:	OK.
Std Error of Est:	0.000054		
Predicted MDL:	0.035426		
Predicted MQL:	0.118087		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00021	.001	1
S1	.10000	.09310	-.007	-6.90	.00203	.001	1
S2	37.500	37.287	-.213	-.568	.89790	.003	1
S3	75.000	75.248	.248	.330	1.8122	.003	1
S4	150.00	151.53	1.53	1.02	3.6497	.021	1
S5	300.00	301.41	1.41	.471	7.2597	.032	1
S6	800.00	797.03	-2.97	-.372	19.193	.003	1

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



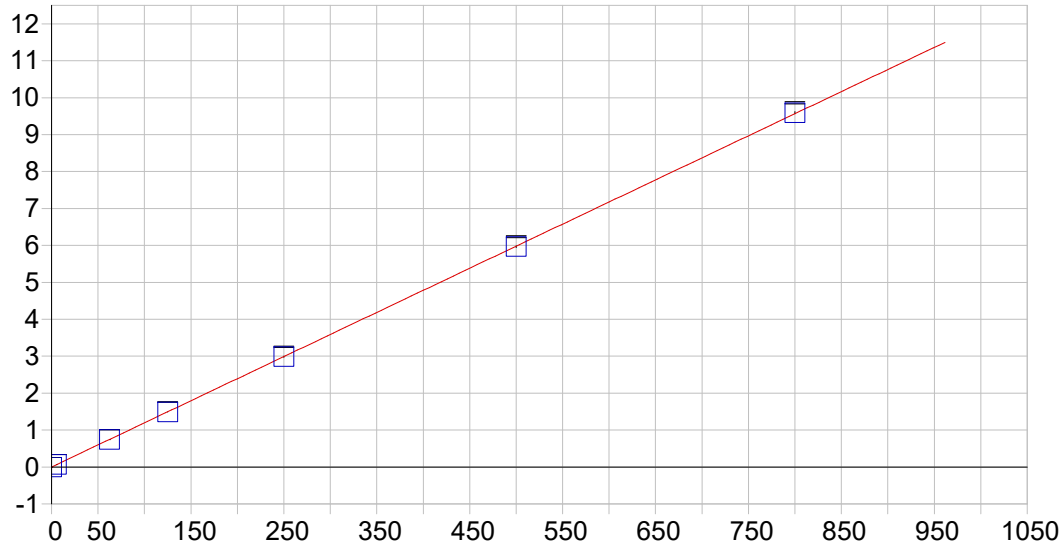
Mn 257.610 {131}

Date of Fit:	01/03/2025 12:56:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000088	Re-Slope:	1.000000
A1 (Gain):	0.449550	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999996	Status:	OK.
Std Error of Est:	0.000044		
Predicted MDL:	0.001936		
Predicted MQL:	0.006453		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00009	.000	1
S1	.01500	.01342	-.002	-10.5	.00612	.001	1
S2	3.7500	3.7316	-.018	-.492	1.6776	.008	1
S3	7.5000	7.5135	.013	.179	3.3778	.005	1
S4	15.000	15.039	.039	.262	6.7610	.043	1
S5	30.000	29.967	-.033	-.109	13.472	.030	1

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



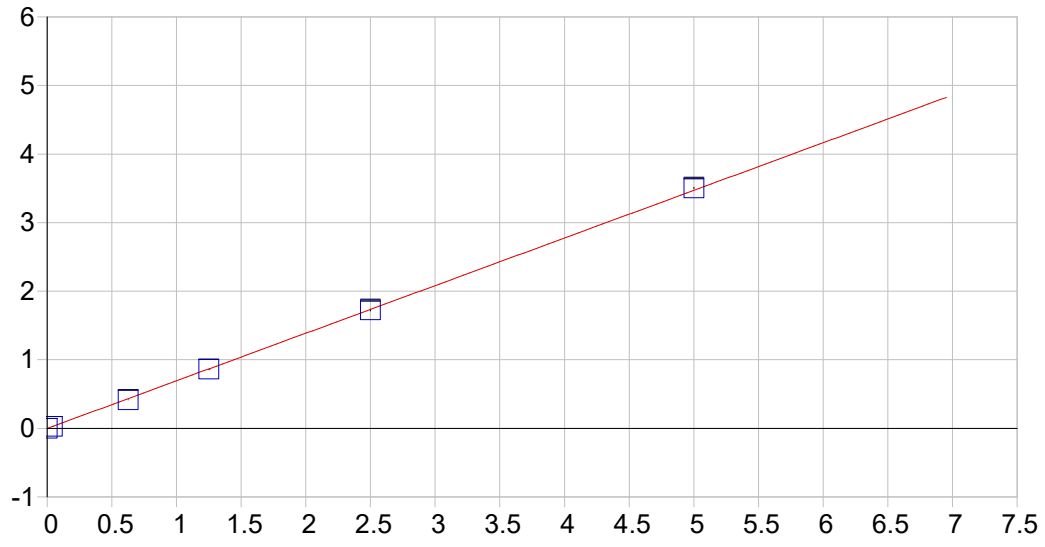
Mg 279.079 {121}

Date of Fit:	01/03/2025 12:56:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000058	Re-Slope:	1.000000
A1 (Gain):	0.011958	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999988	Status:	OK.
Std Error of Est:	0.000202		
Predicted MDL:	0.090472		
Predicted MQL:	0.301573		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00031	-.000	.000	-.00006	.001	1
S1	5.0000	5.3746	.375	7.49	.06421	.002	1
S2	62.500	62.048	-.452	-.723	.74192	.004	1
S3	125.00	124.38	-.617	-.493	1.4873	.004	1
S4	250.00	249.81	-.193	-.077	2.9872	.015	1
S5	500.00	499.01	-.989	-.198	5.9672	.027	1
S6	800.00	801.88	1.88	.235	9.5889	.030	1

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



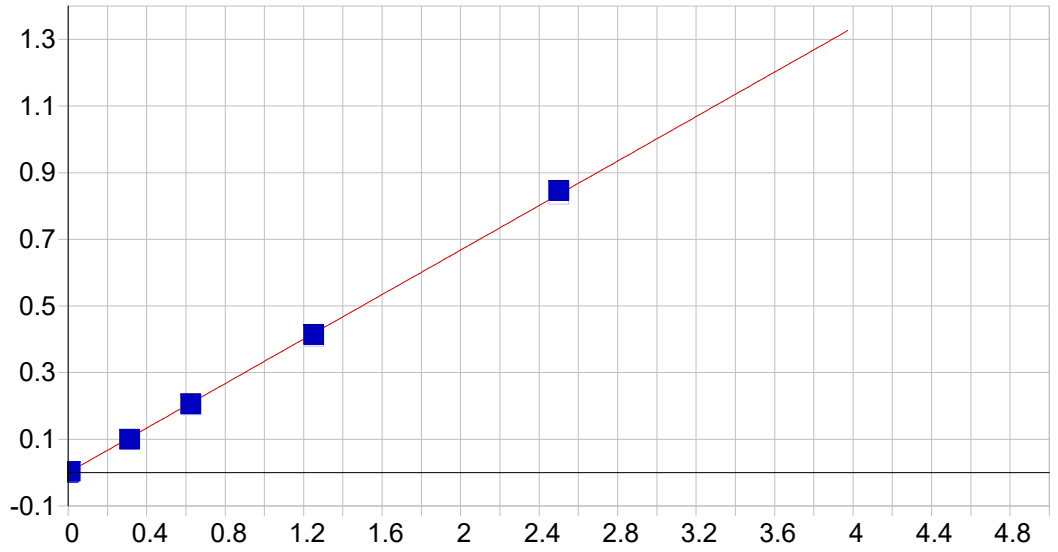
Ni 231.604 {446}

Date of Fit:	01/03/2025 12:56:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001274	Re-Slope:	1.000000
A1 (Gain):	0.694264	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999911	Status:	OK.
Std Error of Est:	0.000220		
Predicted MDL:	0.000939		
Predicted MQL:	0.003131		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00127	.001	1
S1	.04000	.03851	-.001	-3.73	.02546	.000	1
S2	.62500	.60027	-.025	-3.96	.41547	.001	1
S3	1.2500	1.2413	-.009	-.695	.86053	.000	1
S4	2.5000	2.4851	-.015	-.595	1.7241	.015	1
S5	5.0000	5.0498	.050	.996	3.5046	.011	1

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

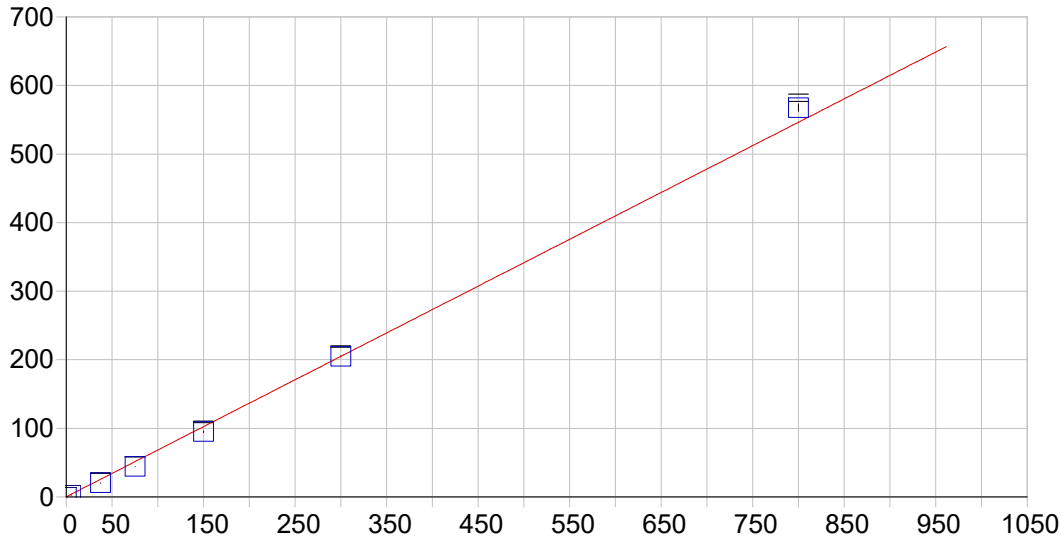


Ag 328.068 {103}

Date of Fit:	01/03/2025 12:56:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000171	Re-Slope:	1.000000
A1 (Gain):	0.333831	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999853	Status:	OK.
Std Error of Est:	0.000047		
Predicted MDL:	0.001608		
Predicted MQL:	0.005359		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00017	.000	1
S1	.01000	.01024	.000	2.44	.00359	.000	1
S2	.31250	.29801	-.014	-4.64	.09816	.000	1
S3	.62500	.61567	-.009	-1.49	.20270	.001	1
S4	1.2500	1.2401	-.010	-.792	.40815	.001	1
S5	2.5000	2.5335	.033	1.34	.83391	.001	1



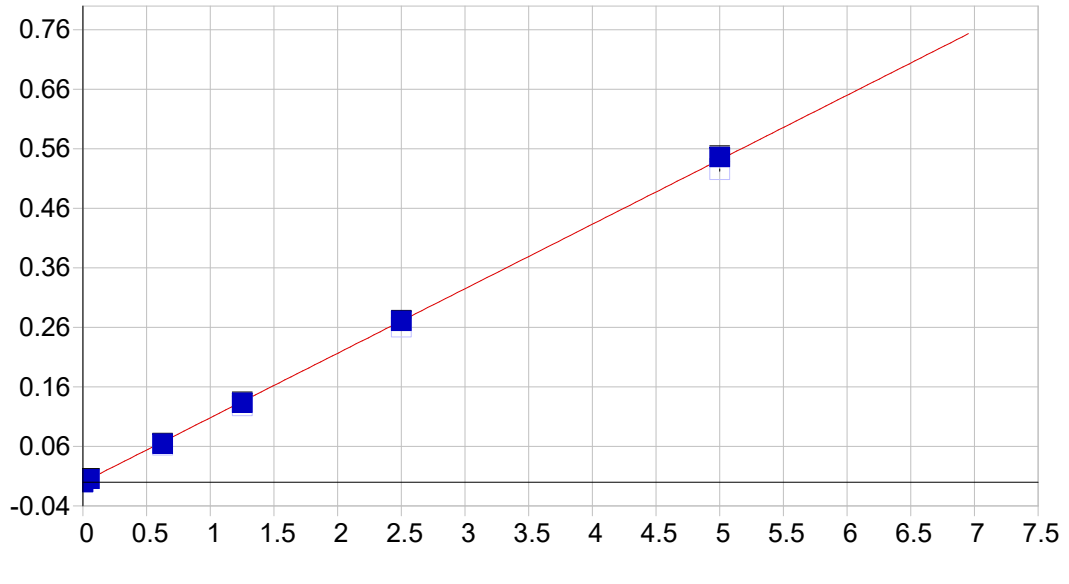
Na 818.326 { 41}

Date of Fit:	01/03/2025 12:56:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.102999	Re-Slope:	1.000000
A1 (Gain):	0.682872	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998008	Status:	OK.
Std Error of Est:	0.133464		
Predicted MDL:	0.019606		
Predicted MQL:	0.065354		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00324	.003	.000	.10521	.023	1
S1	5.0000	3.6759	-1.32	-26.5	2.6132	.021	1
S2	37.500	29.691	-7.81	-20.8	20.378	.134	1
S3	75.000	64.528	-10.5	-14.0	44.168	.279	1
S4	150.00	138.92	-11.1	-7.38	94.971	1.11	1
S5	300.00	299.63	-.365	-.122	204.72	.954	1
S6	800.00	831.05	31.0	3.88	567.60	5.47	1

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



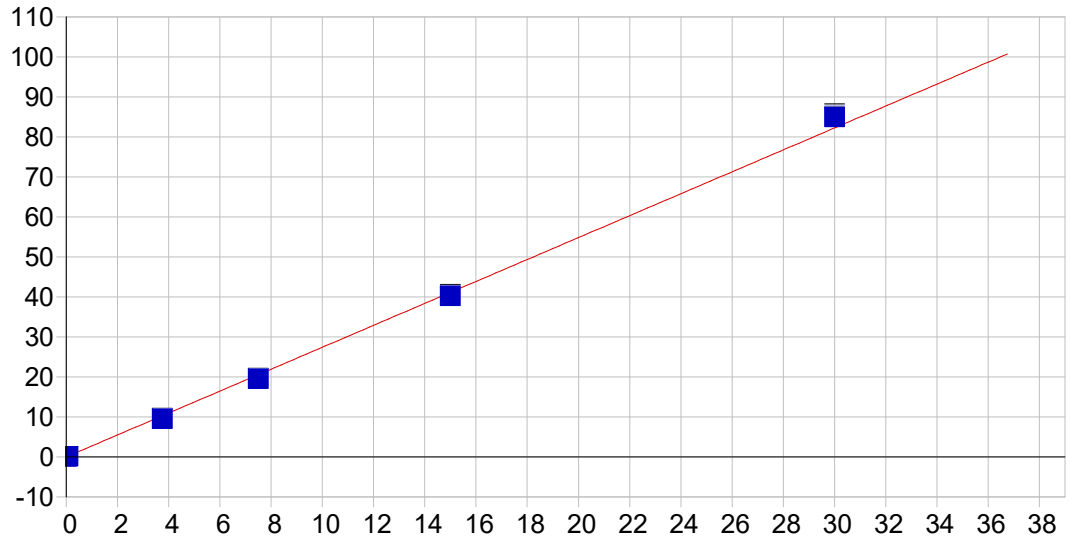
V 292.402 {115}

Date of Fit:	01/03/2025 12:56:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000235	Re-Slope:	1.000000
A1 (Gain):	0.108400	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999892	Status:	OK.
Std Error of Est:	0.000041		
Predicted MDL:	0.011988		
Predicted MQL:	0.039958		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00024	.001	1
S1	.05000	.05201	.002	4.03	.00539	.001	1
S2	.62500	.59736	-.028	-4.42	.06180	.001	1
S3	1.2500	1.2331	-.017	-1.35	.12800	.001	1
S4	2.5000	2.5007	.001	.030	.25999	.001	1
S5	5.0000	5.0417	.042	.835	.52457	.002	1

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



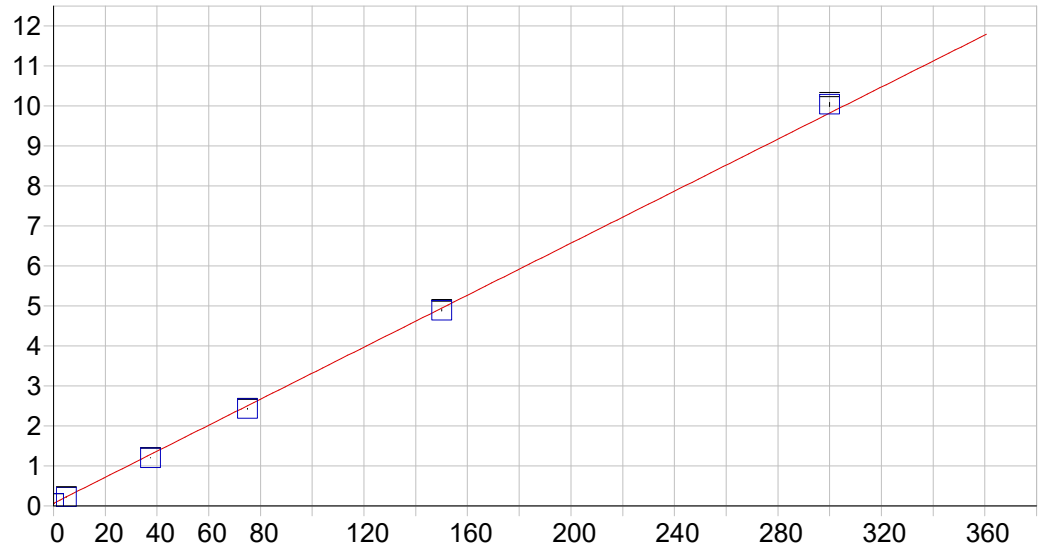
Zn 213.856 {158}

Date of Fit:	01/03/2025 12:56:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002813	Re-Slope:	1.000000
A1 (Gain):	2.741170	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999297	Status:	OK.
Std Error of Est:	0.007355		
Predicted MDL:	0.000618		
Predicted MQL:	0.002059		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00283	.003	1
S1	.06000	.06041	.000	.684	.16892	.001	1
S2	3.7500	3.4683	-.282	-7.51	9.5603	.113	1
S3	7.5000	7.1259	-.374	-4.99	19.637	.065	1
S4	15.000	14.664	-.336	-2.24	40.401	.264	1
S5	30.000	30.991	.991	3.30	85.357	.436	1

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



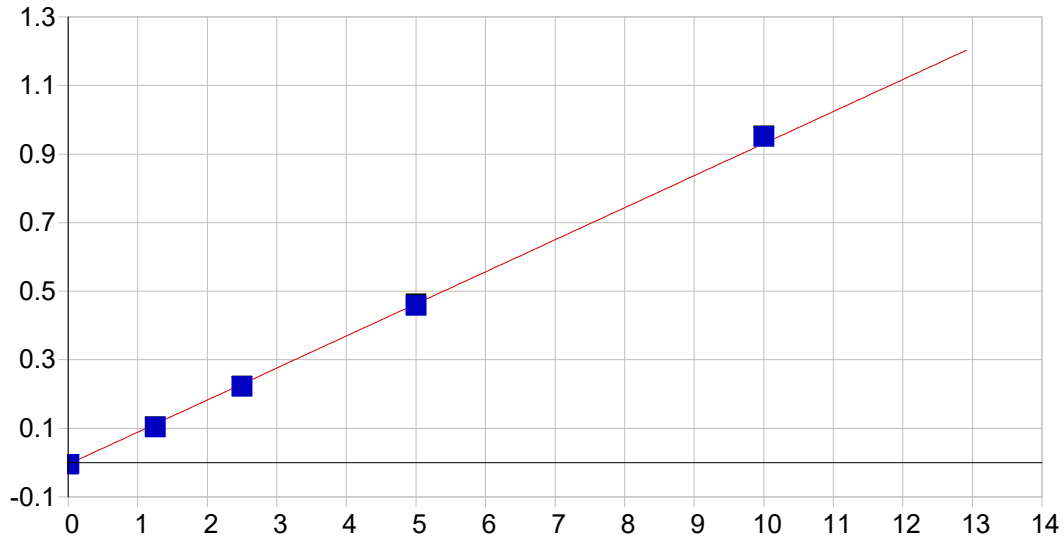
K 769.896 { 44}

Date of Fit: 01/03/2025 12:56:42 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset):	0.066515	Re-Slope:	1.000000
A1 (Gain):	0.032523	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999631	Status:	OK.
Std Error of Est:	0.001823		
Predicted MDL:	0.183625		
Predicted MQL:	0.612082		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00056	.001	.000	.06653	.007	1
S1	5.0000	4.8812	-.119	-2.38	.22526	.011	1
S2	37.500	34.921	-2.58	-6.88	1.2022	.005	1
S3	75.000	72.653	-2.35	-3.13	2.4294	.014	1
S4	150.00	148.38	-1.62	-1.08	4.8921	.019	1
S5	300.00	306.67	6.67	2.22	10.040	.052	1

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

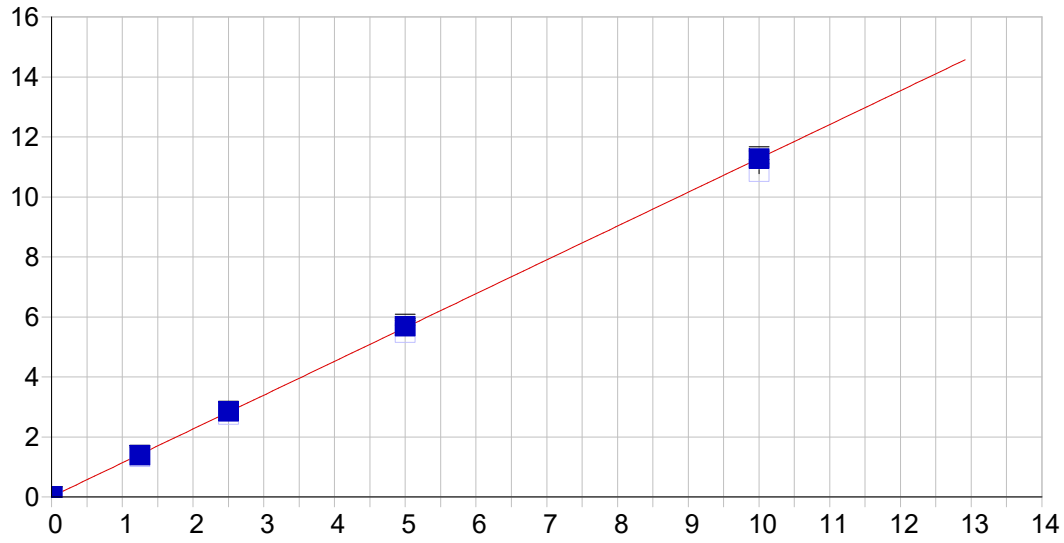


P 177.495 {490}

Date of Fit:	01/03/2025 12:56:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.004519	Re-Slope:	1.000000
A1 (Gain):	0.093497	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999611	Status:	OK.
Std Error of Est:	0.000044		
Predicted MDL:	0.003018		
Predicted MQL:	0.010061		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00452	.000	1
S1	.01000	.00970	-.000	-3.04	-.00361	.000	1
S2	1.2500	1.1561	-.094	-7.52	.10340	.000	1
S3	2.5000	2.4277	-.072	-2.89	.22212	.001	1
S4	5.0000	4.9467	-.053	-1.07	.45730	.005	1
S5	10.000	10.220	.220	2.20	.94964	.002	1

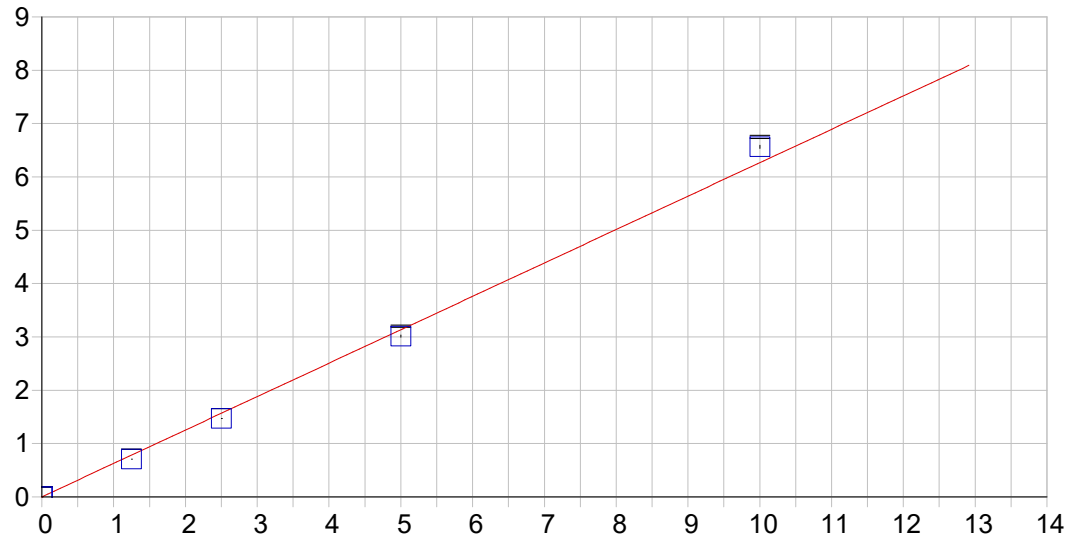


B 249.678 {135}

Date of Fit:	01/03/2025 12:56:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.008656	Re-Slope:	1.000000
A1 (Gain):	1.127550	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999460	Status:	OK.
Std Error of Est:	0.000598		
Predicted MDL:	0.002059		
Predicted MQL:	0.006862		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00867	.002	1
S1	.01000	-.00335	-.013	-134.	.00481	.001	1
S2	1.2500	1.2245	-.026	-2.04	1.3357	.003	1
S3	2.5000	2.5169	.017	.675	2.7394	.016	1
S4	5.0000	5.0355	.036	.711	5.4721	.072	1
S5	10.000	9.9869	-.013	-.131	10.841	.066	1



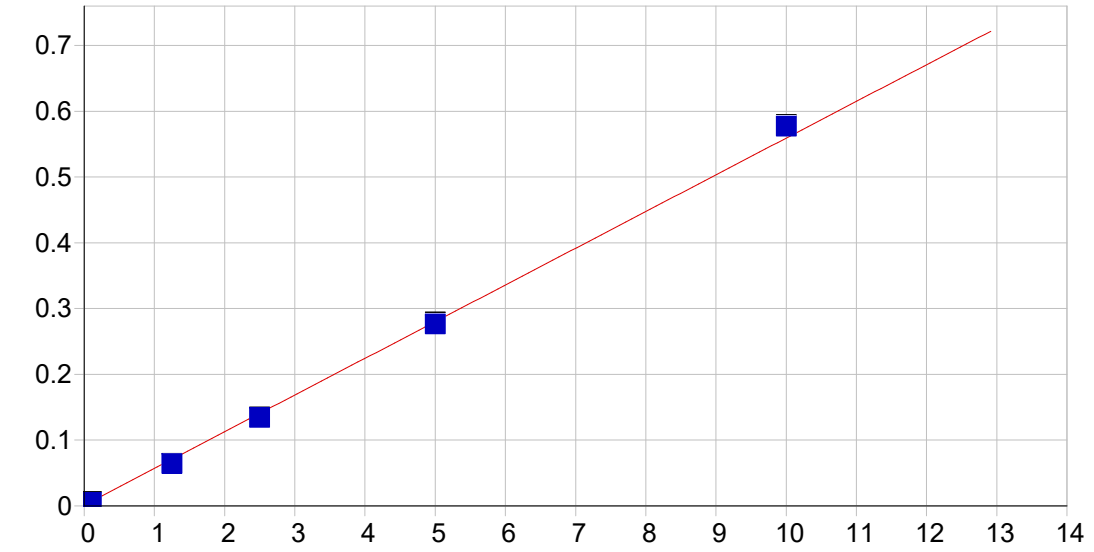
Mo 202.030 {467}

Date of Fit:	01/03/2025 12:56:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001115	Re-Slope:	1.000000
A1 (Gain):	0.626497	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998629	Status:	OK.
Std Error of Est:	0.000551		
Predicted MDL:	0.000765		
Predicted MQL:	0.002549		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00112	.000	1
S1	.01000	.01041	.000	4.14	.00764	.000	1
S2	1.2500	1.1265	-.123	-9.88	.70686	.001	1
S3	2.5000	2.3431	-.157	-6.28	1.4690	.002	1
S4	5.0000	4.8091	-.191	-3.82	3.0140	.019	1
S5	10.000	10.471	.471	4.71	6.5611	.030	1

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



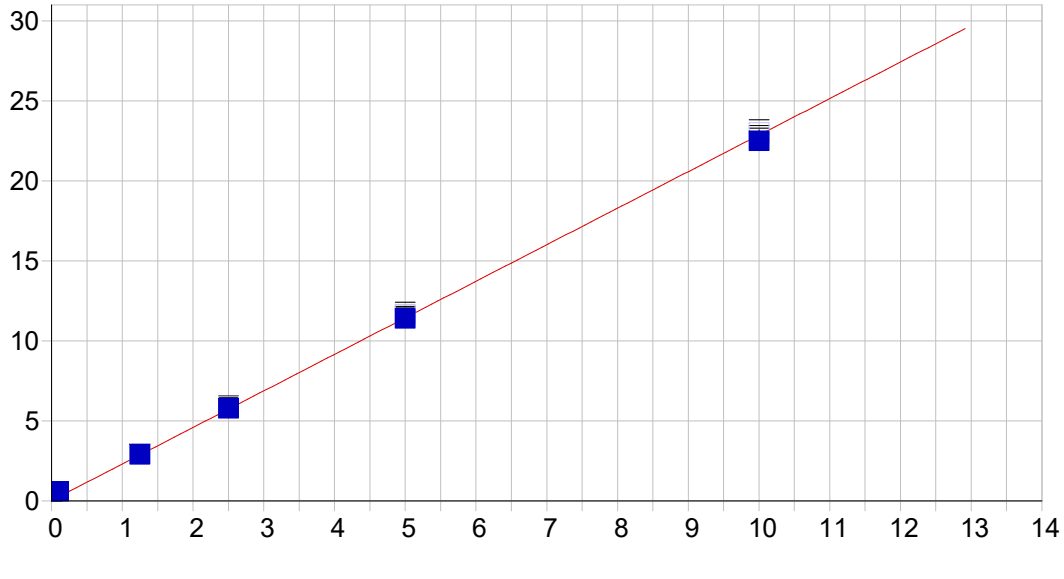
S 182.034 {485}

Date of Fit:	01/03/2025 12:56:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001153	Re-Slope:	1.000000
A1 (Gain):	0.055803	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999184	Status:	OK.
Std Error of Est:	0.000120		
Predicted MDL:	0.004528		
Predicted MQL:	0.015092		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00003	.000	.000	.00115	.000	1
S1	.10000	.08254	-.017	-17.5	.00576	.000	1
S2	1.2500	1.1280	-.122	-9.76	.06433	.000	1
S3	2.5000	2.3876	-.112	-4.50	.13483	.000	1
S4	5.0000	4.9338	-.066	-1.32	.27737	.002	1
S5	10.000	10.318	.318	3.18	.57872	.001	1

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



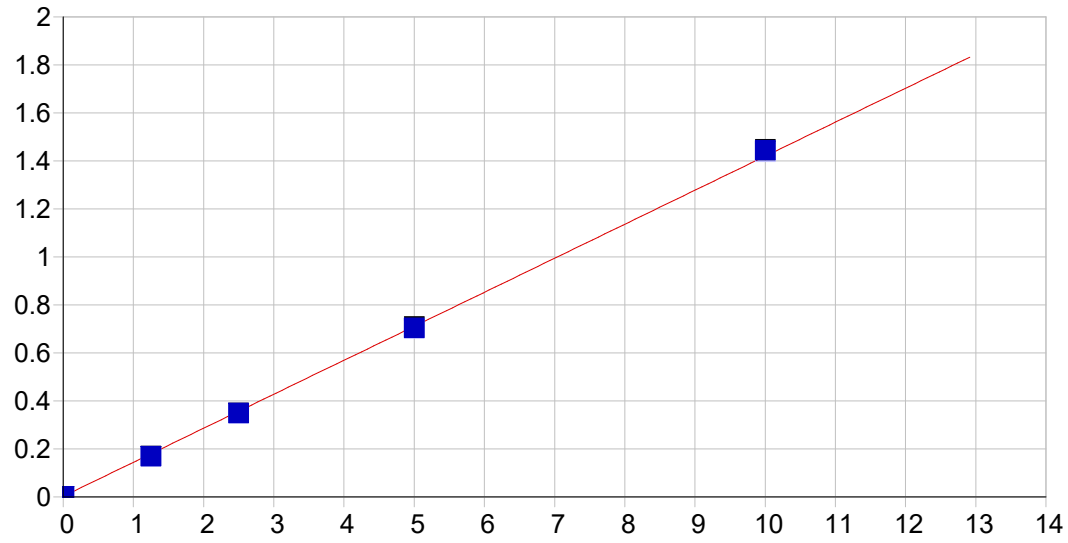
Si 251.611 {134}

Date of Fit:	01/03/2025 12:56:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.022974	Re-Slope:	1.000000
A1 (Gain):	2.283946	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.994217	Status:	OK.
Std Error of Est:	0.013407		
Predicted MDL:	0.001043		
Predicted MQL:	0.003478		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00015	-.000	.000	.02263	.001	1
S1	.10000	.25066	.151	151.	.59869	.004	1
S2	1.2500	1.2581	.008	.650	2.9613	.005	1
S3	2.5000	2.5213	.021	.853	5.9111	.036	1
S4	5.0000	4.9774	-.023	-.453	11.650	.141	1
S5	10.000	9.8438	-.156	-1.56	23.024	.179	1

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



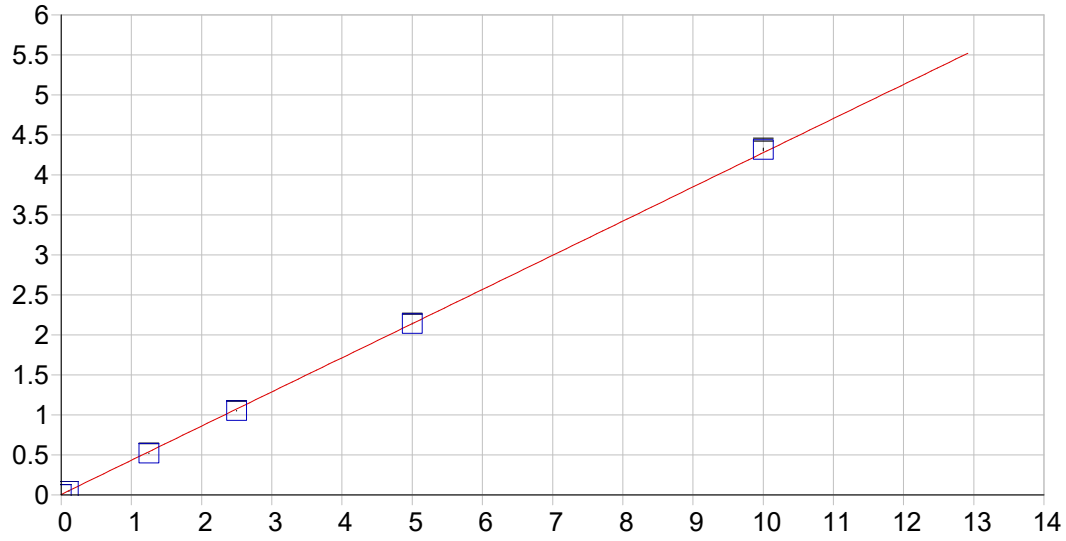
Sn 189.989 {478}

Date of Fit:	01/03/2025 12:56:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002549	Re-Slope:	1.000000
A1 (Gain):	0.141695	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999751	Status:	OK.
Std Error of Est:	0.000044		
Predicted MDL:	0.001604		
Predicted MQL:	0.005348		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00255	.000	1
S1	.00700	.00726	.000	3.70	.00353	.000	1
S2	1.2500	1.1761	-.074	-5.91	.16830	.000	1
S3	2.5000	2.4432	-.057	-2.27	.34696	.000	1
S4	5.0000	4.9530	-.047	-.940	.70081	.006	1
S5	10.000	10.178	.178	1.78	1.4375	.004	1

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



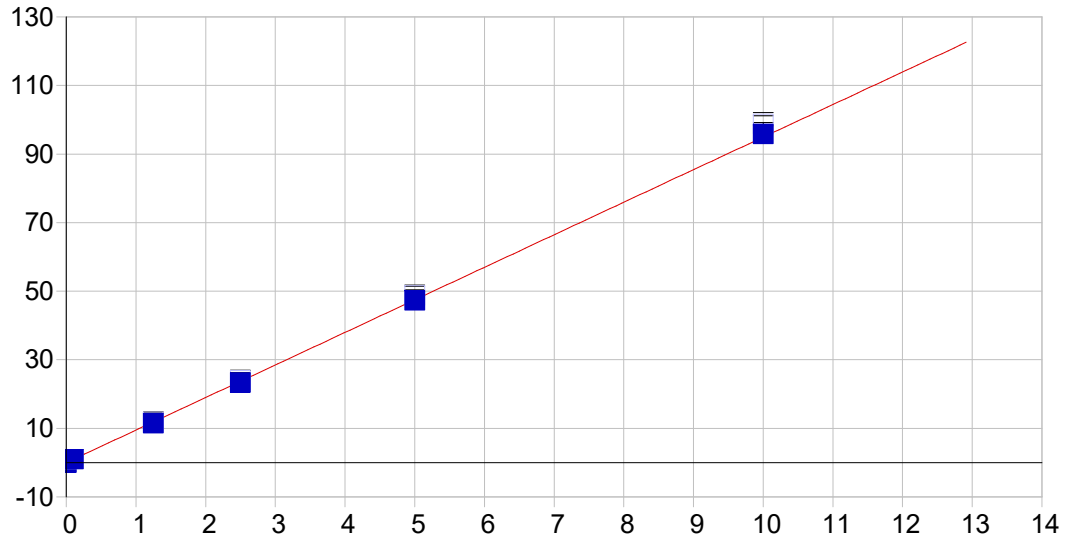
Ti 336.121 {100}

Date of Fit:	01/03/2025 12:56:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005971	Re-Slope:	1.000000
A1 (Gain):	0.427042	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999902	Status:	OK.
Std Error of Est:	0.000317		
Predicted MDL:	0.004656		
Predicted MQL:	0.015522		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00597	.002	1
S1	.10000	.09665	-.003	-3.35	.04724	.001	1
S2	1.2500	1.2054	-.045	-3.57	.52073	.004	1
S3	2.5000	2.4492	-.051	-2.03	1.0519	.004	1
S4	5.0000	5.0017	.002	.034	2.1419	.005	1
S5	10.000	10.097	.097	.971	4.3178	.017	1

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



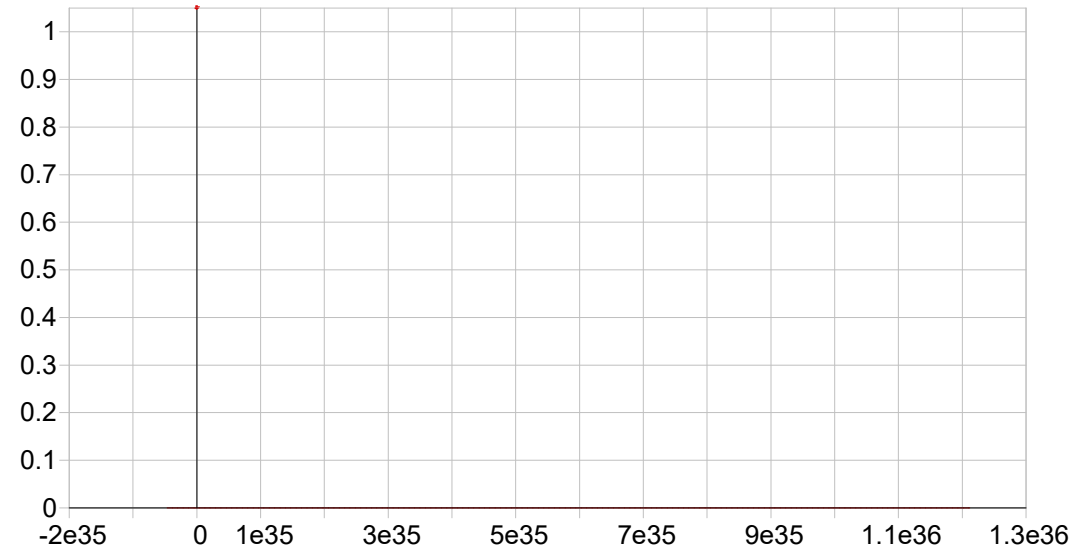
Sr 407.771 { 83}

Date of Fit:	01/03/2025 12:56:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001853	Re-Slope:	1.000000
A1 (Gain):	9.493908	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999900	Status:	OK.
Std Error of Est:	0.007341		
Predicted MDL:	0.000288		
Predicted MQL:	0.000960		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00189	.003	1
S1	.10000	.10882	.009	8.82	1.0322	.006	1
S2	1.2500	1.2090	-.041	-3.28	11.832	.024	1
S3	2.5000	2.4535	-.047	-1.86	24.003	.073	1
S4	5.0000	4.9821	-.018	-.358	48.722	.205	1
S5	10.000	10.097	.097	.969	98.705	.476	1

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

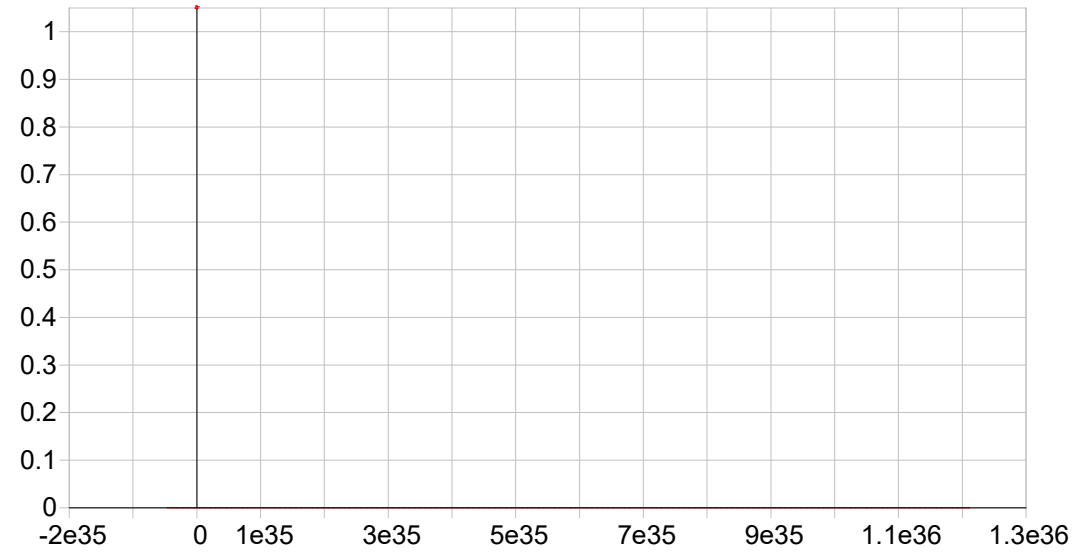


Y 224.306 {450}*

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}*

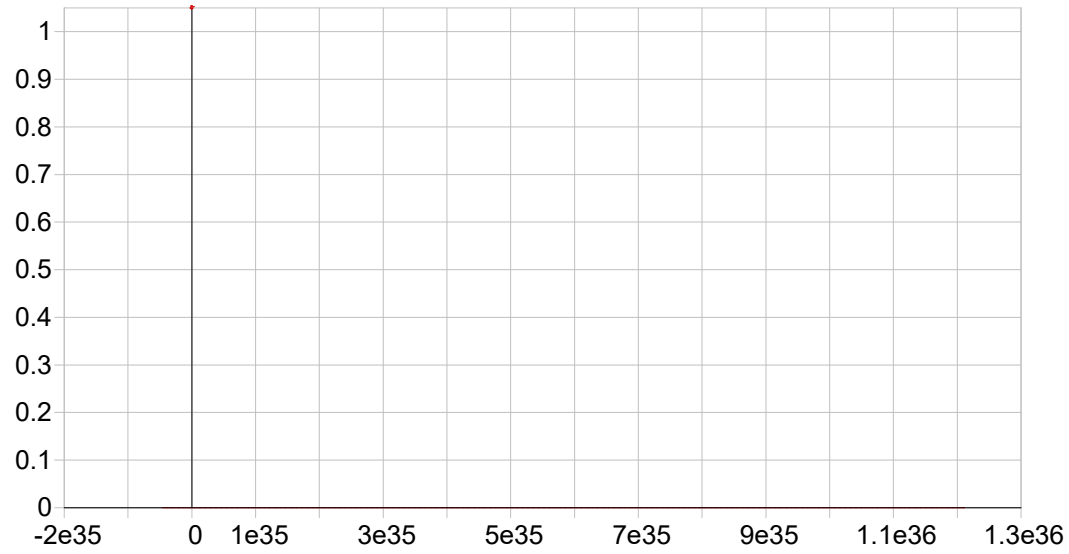
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
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



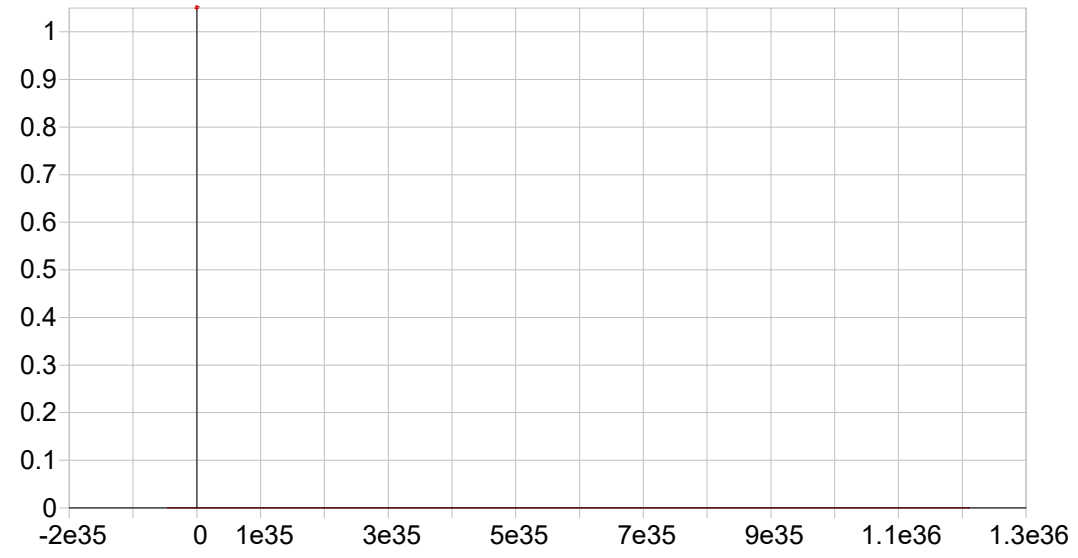
Y 371.030 { 91}*

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

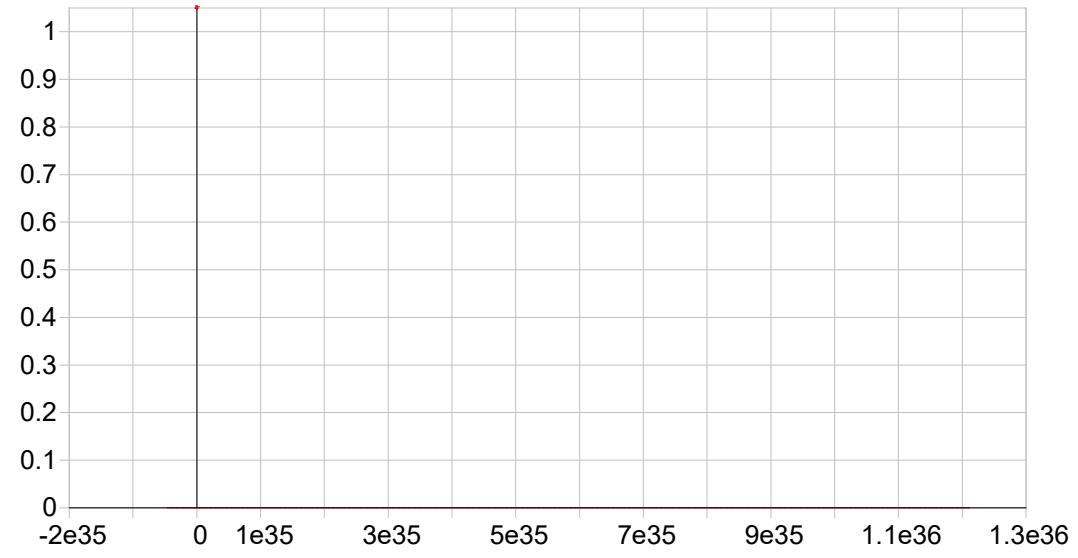
Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



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

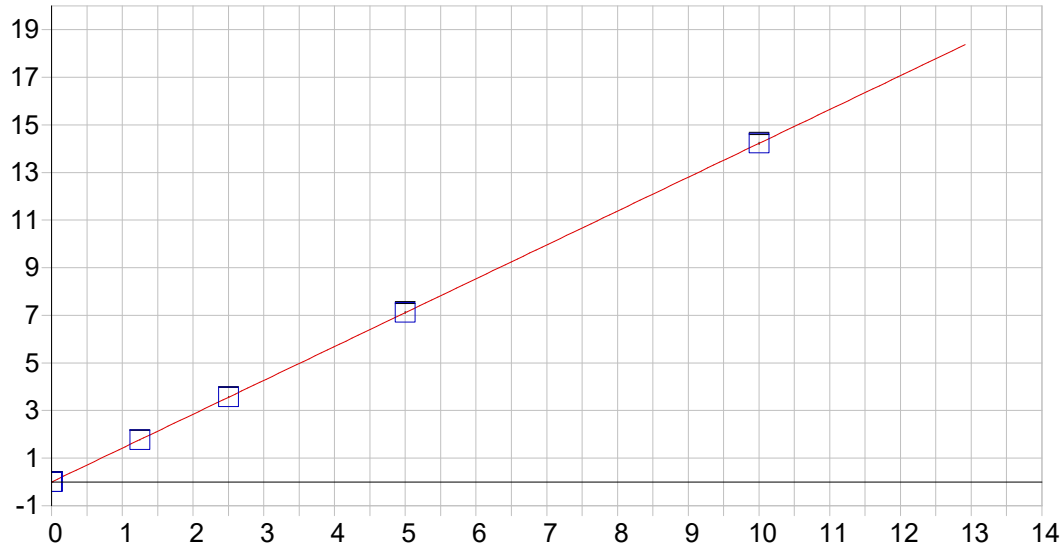


In 230.606 {446}*

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	

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:	01/03/2025 12:56:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001239	Re-Slope:	1.000000
A1 (Gain):	1.422611	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999899	Status:	OK.
Std Error of Est:	0.000415		
Predicted MDL:	0.004002		
Predicted MQL:	0.013339		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00123	.007	1
S5	10.000	10.002	.002	.016	14.227	.049	1
S4	5.0000	5.0033	.003	.065	7.1165	.040	1
S3	2.5000	2.5123	.012	.493	3.5728	.010	1
S2	1.2500	1.2401	-.010	-.789	1.7630	.010	1
S1	.01500	.00761	-.007	-49.3	.00959	.004	1

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: S0 Acquired: 01/03/2025 12:30:06 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) 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	.18942	-.00045	-.00068	-.00013	-.00003	-.00182	.16789	.00495
Stddev	.73516	.00019	.00084	.00013	.00028	.00132	.01289	.00085
%RSD	388.12	42.871	124.62	103.21	913.66	72.647	7.6797	17.133
#1	.51771	-.00063	.00027	-.00016	-.00029	-.00182	.17402	.00464
#2	.70324	-.00046	-.00097	.00002	.00027	-.00313	.15307	.00431
#3	-.65269	-.00025	-.00133	-.00024	-.00007	-.00050	.17657	.00592

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	.00050	.01154	-.00011	-.00082	.00313	-.00021	.00009	-.00006
Stddev	.00070	.00374	.00029	.00052	.00124	.00138	.00046	.00061
%RSD	139.75	32.422	266.35	63.572	39.727	661.19	516.90	987.55
#1	.00126	.01560	-.00045	-.00026	.00170	.00138	.00059	-.00075
#2	.00038	.01078	.00009	-.00129	.00392	-.00106	-.00032	.00018
#3	-.00013	.00824	.00003	-.00092	.00378	-.00095	-.00001	.00038

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	-.00127	.00017	.10521	-.00024	.00283	.06653	-.00452	.00867
Stddev	.00083	.00025	.02252	.00077	.00289	.00672	.00048	.00227
%RSD	64.946	146.34	21.405	326.65	101.96	10.103	10.520	26.163
#1	-.00217	.00038	.08203	-.00111	-.00009	.07404	-.00400	.00636
#2	-.00109	.00024	.12701	.00032	.00290	.06108	-.00494	.00877
#3	-.00055	-.00011	.10661	.00009	.00568	.06448	-.00461	.01089

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	.00112	.00115	.02263	.00255	.00597	-.00189	-.00123
Stddev	.00025	.00011	.00105	.00015	.00246	.00318	.00694
%RSD	22.223	9.1721	4.6347	5.8331	41.198	167.93	564.67
#1	.00138	.00121	.02229	.00272	.00755	-.00246	.00663
#2	.00089	.00122	.02381	.00247	.00314	.00153	-.00381
#3	.00108	.00103	.02180	.00246	.00724	-.00475	-.00650

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: S0 Acquired: 01/03/2025 12:30:06 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) 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	1824.8	18450.	1803.1	1377.2	2021.2
Stddev	9.7	147.	42.2	7.2	5.7
%RSD	.53010	.79791	2.3388	.52281	.28371
#1	1835.0	18606.	1754.7	1382.9	2026.6
#2	1815.8	18430.	1822.1	1379.6	2015.1
#3	1823.5	18314.	1832.3	1369.1	2021.8

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: S1 Acquired: 01/03/2025 12:34:13 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) 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	1.8764	.00205	.00237	.00198	.00985	.01766	.86692	.07818
Stddev	.3376	.00027	.00042	.00065	.00028	.00619	.00785	.00035
%RSD	17.990	13.099	17.706	32.805	2.8941	35.056	.90573	.44755
#1	1.8125	.00180	.00200	.00127	.00988	.01714	.87553	.07858
#2	1.5753	.00201	.00283	.00254	.01011	.01175	.86015	.07805
#3	2.2414	.00233	.00229	.00214	.00955	.02410	.86509	.07792

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	.02291	.29663	.00364	.05898	.00612	.00203	.00612	.06421
Stddev	.00038	.00275	.00008	.00050	.00103	.00077	.00137	.00181
%RSD	1.6700	.92738	2.1600	.84645	16.818	37.897	22.364	2.8175
#1	.02319	.29980	.00373	.05950	.00661	.00274	.00599	.06531
#2	.02247	.29525	.00358	.05850	.00682	.00121	.00755	.06520
#3	.02307	.29485	.00361	.05894	.00494	.00215	.00482	.06212

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	.02546	.00359	2.6132	.00539	.16892	.22526	-.00361	.00481
Stddev	.00039	.00030	.0210	.00141	.00080	.01069	.00014	.00101
%RSD	1.5301	8.3398	.80184	26.199	.47594	4.7437	3.8376	20.938
#1	.02524	.00354	2.6359	.00376	.16939	.23197	-.00345	.00421
#2	.02523	.00332	2.5945	.00628	.16799	.23088	-.00369	.00426
#3	.02591	.00391	2.6092	.00613	.16937	.21294	-.00369	.00598

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	.00764	.00576	.59869	.00353	.04724	1.0322	.00959
Stddev	.00039	.00033	.00383	.00015	.00068	.0065	.00447
%RSD	5.1646	5.7329	.63948	4.3733	1.4319	.62491	46.593
#1	.00741	.00539	.60263	.00348	.04646	1.0391	.01080
#2	.00809	.00602	.59846	.00341	.04761	1.0310	.01333
#3	.00742	.00587	.59498	.00371	.04765	1.0264	.00464

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: S1 Acquired: 01/03/2025 12:34:13 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) 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	1820.7	18414.	1818.6	1356.0	2032.1
Stddev	6.2	95.	9.8	6.2	3.6
%RSD	.33854	.51445	.54150	.46037	.17955
#1	1813.9	18424.	1808.1	1352.8	2028.3
#2	1822.5	18503.	1827.5	1363.2	2032.5
#3	1825.8	18315.	1820.3	1352.1	2035.5

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: S2 Acquired: 01/03/2025 12:38:19 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) 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	168.96	.11620	1.6925	.07957	.19884	3.7965	8.3892	1.7160
Stddev	.25	.00033	.0014	.00025	.00060	.0124	.0485	.0032
%RSD	.14865	.28735	.08196	.31365	.30340	.32692	.57818	.18754
#1	168.98	.11657	1.6929	.07946	.19891	3.8051	8.4374	1.7133
#2	168.70	.11591	1.6909	.07940	.19941	3.7823	8.3898	1.7151
#3	169.20	.11612	1.6936	.07986	.19821	3.8022	8.3404	1.7195

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	2.6826	3.4125	1.3556	.71503	.55841	.89790	1.6776	.74192
Stddev	.0017	.0112	.0058	.00110	.00053	.00267	.0082	.00352
%RSD	.06273	.32808	.42876	.15390	.09504	.29723	.48995	.47381
#1	2.6846	3.4233	1.3599	.71605	.55780	.90042	1.6865	.74597
#2	2.6818	3.4132	1.3579	.71387	.55879	.89511	1.6760	.73964
#3	2.6815	3.4010	1.3490	.71518	.55863	.89817	1.6703	.74015

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	.41547	.09816	20.378	.06180	9.5603	1.2022	.10340	1.3357
Stddev	.00098	.00015	.134	.00102	.1128	.0053	.00046	.0026
%RSD	.23504	.15473	.65919	1.6555	1.1794	.43845	.44959	.19596
#1	.41660	.09824	20.483	.06087	9.6857	1.2066	.10297	1.3334
#2	.41491	.09824	20.425	.06290	9.5280	1.2038	.10333	1.3386
#3	.41490	.09798	20.227	.06164	9.4672	1.1964	.10390	1.3351

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	.70686	.06433	2.9613	.16830	.52073	11.832	1.7630
Stddev	.00111	.00027	.0046	.00034	.00352	.024	.0098
%RSD	.15667	.41387	.15651	.20237	.67691	.20140	.55363
#1	.70807	.06453	2.9594	.16864	.51792	11.857	1.7739
#2	.70662	.06442	2.9666	.16832	.51958	11.810	1.7599
#3	.70590	.06402	2.9579	.16796	.52468	11.830	1.7552

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: S2 Acquired: 01/03/2025 12:38:19 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) 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	1732.4	17980.	1781.5	1298.5	1852.5
Stddev	3.2	211.	13.6	18.4	4.0
%RSD	.18354	1.1749	.76139	1.4200	.21676
#1	1730.0	17816.	1770.9	1279.5	1848.3
#2	1731.2	17905.	1776.7	1299.7	1852.9
#3	1736.0	18218.	1796.7	1316.3	1856.3

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: S3 Acquired: 01/03/2025 12:42:11 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) 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	340.05	.23960	3.4986	.16588	.41064	7.6655	16.931	3.4319
Stddev	.80	.00035	.0051	.00037	.00122	.0088	.049	.0219
%RSD	.23599	.14736	.14643	.22012	.29655	.11471	.28783	.63788
#1	340.23	.23940	3.5021	.16552	.41045	7.6556	16.956	3.4528
#2	340.74	.24001	3.4927	.16586	.41194	7.6723	16.962	3.4337
#3	339.17	.23940	3.5010	.16625	.40953	7.6685	16.875	3.4092

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	5.5418	6.8978	2.7453	1.4639	1.1288	1.8122	3.3778	1.4873
Stddev	.0084	.0251	.0059	.0029	.0024	.0033	.0054	.0041
%RSD	.15243	.36437	.21499	.20034	.21059	.18007	.16100	.27844
#1	5.5416	6.9166	2.7506	1.4638	1.1311	1.8113	3.3796	1.4904
#2	5.5334	6.9075	2.7464	1.4610	1.1288	1.8159	3.3821	1.4890
#3	5.5503	6.8692	2.7389	1.4669	1.1263	1.8096	3.3716	1.4826

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	.86053	.20270	44.168	.12800	19.637	2.4294	.22212	2.7394
Stddev	.00023	.00097	.279	.00126	.065	.0143	.00086	.0158
%RSD	.02715	.47690	.63188	.98797	.33075	.58759	.38805	.57583
#1	.86056	.20317	44.449	.12927	19.690	2.4435	.22172	2.7536
#2	.86028	.20334	44.164	.12799	19.657	2.4297	.22154	2.7420
#3	.86074	.20158	43.891	.12674	19.564	2.4149	.22311	2.7224

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	1.4690	.13483	5.9111	.34696	1.0519	24.003	3.5728
Stddev	.0020	.00039	.0358	.00014	.0041	.073	.0098
%RSD	.13575	.28728	.60589	.03916	.39273	.30247	.27287
#1	1.4674	.13454	5.9464	.34687	1.0478	23.944	3.5841
#2	1.4684	.13468	5.9122	.34712	1.0560	24.084	3.5672
#3	1.4713	.13527	5.8748	.34690	1.0518	23.981	3.5672

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: S3 Acquired: 01/03/2025 12:42:11 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) 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	1661.1	17448.	1761.6	1240.8	1765.9
Stddev	4.0	40.	8.7	2.9	6.0
%RSD	.24354	.22822	.49442	.23208	.33992
#1	1661.7	17405.	1751.8	1237.5	1764.1
#2	1664.7	17483.	1764.8	1242.8	1772.6
#3	1656.7	17457.	1768.3	1242.1	1761.0

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: S4 Acquired: 01/03/2025 12:45:58 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) 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	660.82	.47432	7.0856	.33502	.84129	15.609	33.977	6.7626
Stddev	1.07	.00317	.0541	.00280	.00655	.062	.113	.1068
%RSD	.16136	.66833	.76371	.83553	.77897	.39599	.33161	1.5799
#1	660.69	.47647	7.1168	.33746	.84317	15.637	34.024	6.8371
#2	659.83	.47068	7.0232	.33196	.83400	15.653	34.059	6.8105
#3	661.95	.47581	7.1169	.33562	.84670	15.539	33.848	6.6402

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	11.086	13.729	5.4495	2.9040	2.2664	3.6497	6.7610	2.9872
Stddev	.087	.058	.0060	.0253	.0096	.0211	.0427	.0146
%RSD	.78537	.42420	.10912	.87001	.42412	.57798	.63121	.48712
#1	11.137	13.778	5.4428	2.9202	2.2772	3.6632	6.7807	2.9970
#2	10.985	13.744	5.4514	2.8749	2.2631	3.6605	6.7902	2.9941
#3	11.135	13.665	5.4543	2.9170	2.2588	3.6254	6.7120	2.9705

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	1.7241	.40815	94.971	.25999	40.401	4.8921	.45730	5.4721
Stddev	.0148	.00079	1.111	.00087	.264	.0190	.00487	.0720
%RSD	.85952	.19381	1.1703	.33451	.65300	.38832	1.0651	1.3153
#1	1.7355	.40758	95.495	.25935	40.339	4.8988	.46004	5.5356
#2	1.7073	.40781	95.723	.26098	40.691	4.9069	.45168	5.4867
#3	1.7293	.40905	93.694	.25963	40.174	4.8707	.46019	5.3939

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	3.0140	.27737	11.650	.70081	2.1419	48.722	7.1165
Stddev	.0193	.00217	.141	.00556	.0052	.205	.0396
%RSD	.64100	.78323	1.2105	.79268	.24282	.42097	.55597
#1	3.0257	.27833	11.743	.70381	2.1442	48.901	7.1557
#2	2.9917	.27488	11.720	.69440	2.1456	48.765	7.1172
#3	3.0246	.27889	11.488	.70422	2.1359	48.498	7.0765

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: S4 Acquired: 01/03/2025 12:45:58 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) 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	1564.9	16891.	1724.5	1158.3	1684.7
Stddev	9.2	74.	19.3	7.4	12.2
%RSD	.58525	.43994	1.1220	.64272	.72660
#1	1557.2	16976.	1715.3	1162.1	1675.2
#2	1575.1	16863.	1711.5	1149.7	1698.5
#3	1562.5	16835.	1746.8	1163.1	1680.4

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: S5 Acquired: 01/03/2025 12:49:43 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) 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	1288.1	.94611	14.541	.71043	1.8381	31.927	68.614	13.345
Stddev	3.2	.00324	.032	.00373	.0089	.171	.238	.078
%RSD	.24887	.34218	.21873	.52559	.48151	.53403	.34748	.58340
#1	1284.7	.94581	14.534	.71308	1.8434	31.839	68.423	13.287
#2	1291.1	.94304	14.512	.70616	1.8279	32.123	68.881	13.434
#3	1288.3	.94949	14.575	.71204	1.8431	31.818	68.538	13.314

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	22.475	27.317	10.903	5.8899	4.5667	7.2597	13.472	5.9672
Stddev	.060	.125	.016	.0150	.0271	.0320	.030	.0265
%RSD	.26644	.45720	.14718	.25536	.59382	.44107	.22595	.44436
#1	22.453	27.255	10.896	5.8881	4.5637	7.2675	13.468	5.9585
#2	22.430	27.460	10.922	5.8758	4.5952	7.2872	13.504	5.9970
#3	22.543	27.235	10.892	5.9058	4.5412	7.2245	13.444	5.9461

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.5046	.83391	204.72	.52457	85.357	10.040	.94964	10.841
Stddev	.0106	.00125	.95	.00192	.436	.052	.00220	.066
%RSD	.30281	.14985	.46604	.36615	.51086	.51968	.23126	.61060
#1	3.5045	.83459	203.95	.52579	84.863	10.002	.94810	10.788
#2	3.4940	.83466	205.79	.52556	85.521	10.100	.94867	10.915
#3	3.5153	.83246	204.41	.52236	85.687	10.018	.95216	10.819

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	6.5611	.57872	23.024	1.4375	4.3178	98.705	14.227
Stddev	.0300	.00104	.179	.0038	.0165	.476	.049
%RSD	.45658	.17894	.77700	.26261	.38281	.48213	.34690
#1	6.5714	.57967	22.903	1.4366	4.3085	98.530	14.197
#2	6.5274	.57762	23.230	1.4343	4.3369	99.244	14.284
#3	6.5845	.57888	22.940	1.4417	4.3081	98.342	14.201

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: S5 Acquired: 01/03/2025 12:49:43 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) 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	1398.4	16253.	1695.1	1034.0	1582.9
Stddev	8.7	42.	12.3	3.9	4.9
%RSD	.62488	.25617	.72484	.37986	.31178
#1	1392.7	16255.	1701.8	1038.5	1580.8
#2	1408.5	16210.	1680.9	1032.3	1588.6
#3	1394.1	16293.	1702.5	1031.3	1579.4

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: S6 Acquired: 01/03/2025 12:53:37 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) 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	84.233	43.909	19.193	9.5889	567.60
Stddev	.114	.084	.003	.0302	5.47
%RSD	.13541	.19200	.01321	.31438	.96315
#1	84.293	43.971	19.190	9.6081	572.90
#2	84.305	43.943	19.194	9.6044	567.91
#3	84.102	43.813	19.195	9.5542	561.98

Int. Std.	Y_3710
Units	Cts/S
Avg	1639.9
Stddev	9.6
%RSD	.58272
#1	1638.1
#2	1631.4
#3	1650.3

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: ICV051 Acquired: 01/03/2025 13:04:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV051 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.079059	1.000783	.9840480	.9477416	.9086755	2.403445
Stddev	.005416	.005579	.0040799	.0053265	.0024773	.009321
%RSD	.5019244	.5574760	.4146069	.5620190	.2726300	.3878239
#1	1.084504	1.001600	.9884115	.9436416	.9113250	2.413351
#2	1.079000	1.005909	.9834043	.9458213	.9082847	2.394847
#3	1.073673	.994841	.9803281	.9537620	.9064168	2.402138

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5176620	.5321191	.5019377	10.19293	.5505940	.5066093
Stddev	.0008384	.0031001	.0006478	.07120	.0022569	.0004314
%RSD	.1619579	.5825914	.1290665	.6984986	.4099001	.0851485
#1	.5180862	.5329223	.5025631	10.24929	.5529878	.5063505
#2	.5166963	.5347385	.5019805	10.11292	.5502892	.5063701
#3	.5182035	.5286964	.5012696	10.21658	.5485050	.5071072

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4953439	10.34324	.5377142	6.225183	.5153662	.2476684
Stddev	.0188414	.09141	.0055930	.131177	.0011326	.0021007
%RSD	3.803696	.8837320	1.040145	2.107193	.2197625	.8481806
#1	.5075821	10.38469	.5437723	6.333317	.5166226	.2500775
#2	.4736471	10.40658	.5327471	6.262972	.5150524	.2462192
#3	.5048027	10.23846	.5366231	6.079260	.5144236	.2467083

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.35818	.5140353	.9468246	9.172970	F .0001987	F -.018514
Stddev	.08303	.0167179	.0038610	.214650	.0015950	.003559
%RSD	.8015656	3.252285	.4077866	2.340025	802.8371	19.22587
#1	10.41849	.5333166	.9495476	9.262558	.0020025	-.020546
#2	10.39257	.5035808	.9424059	9.328314	-.001025	-.014404
#3	10.26348	.5052086	.9485204	8.928039	-.000381	-.020592

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: ICV051 Acquired: 01/03/2025 13:04:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV051 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0007138	F .0017593	F .0011466	F -.000558	F .0001971	F -.009303
Stddev	.0000815	.0037057	.0014510	.001580	.0016027	.000173
%RSD	11.42263	210.6430	126.5497	283.2711	813.1978	1.855027
#1	.0006811	-.002456	.0027984	.000025	.0020262	-.009257
#2	.0006536	.003232	.0005638	.000648	-.000961	-.009158
#3	.0008066	.004503	.0000776	-.002346	-.000474	-.009494

Elem	Li6707
Units	ppm
Avg	F .0107418
Stddev	.0035811
%RSD	33.33813
#1	.0066452
#2	.0132779
#3	.0123023

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1827.928	18579.01	1819.376	1371.695	2011.115
Stddev	3.347	129.75	17.681	9.916	1.243
%RSD	.1830786	.6983698	.9718325	.7229208	.0617882
#1	1828.681	18430.85	1803.870	1360.276	2011.275
#2	1830.834	18633.85	1815.628	1378.141	2012.269
#3	1824.269	18672.35	1838.631	1376.669	2009.800

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: ICB051 Acquired: 01/03/2025 13:08:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB051 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001678	-.000540	-.003326	.0020707	.0010064	.0159920
Stddev	.001402	.005331	.001558	.0119618	.0017427	.0135202
%RSD	83.51609	987.5499	46.84722	577.6809	173.1600	84.54358
#1	-.002770	.001577	-.002417	-.011233	-.000471	.0266014
#2	-.002166	.003408	-.005126	.011938	.000563	.0206057
#3	-.000098	-.006604	-.002437	.005507	.002928	.0007688

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002780	-.000086	.0000569	-.029325	-.000664	-.000321
Stddev	.001158	.000246	.0000937	.025924	.000896	.000282
%RSD	41.65419	284.9883	164.8110	88.40165	134.8524	87.64895
#1	-.001448	.000194	.0001246	-.038552	-.001488	-.000448
#2	-.003347	-.000267	-.000050	-.049372	-.000794	-.000518
#3	-.003546	-.000185	.000096	-.000050	.000289	.000001

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001843	-.014824	.0009410	-.203380	-.000523	.0005124
Stddev	.001506	.026210	.0010680	.012513	.001038	.0002923
%RSD	81.69471	176.8063	113.5021	6.152678	198.6388	57.05547
#1	-.000114	.010669	-.000204	-.193495	.000676	.0001924
#2	-.002550	-.013444	.001910	-.217449	-.001117	.0007655
#3	-.002865	-.041698	.001117	-.199196	-.001127	.0005792

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0542194	.0002697	-.000697	.2552889	.0017364	.0022724
Stddev	.0261786	.0066870	.000873	.1455996	.0027666	.0015308
%RSD	48.28277	2479.452	125.2438	57.03327	159.3314	67.36654
#1	.0786614	-.006387	.000310	.2890208	-.000922	.0039886
#2	.0574016	.000209	-.001155	.0957840	.004600	.0010476
#3	.0265951	.006987	-.001246	.3810619	.001532	.0017809

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: ICB051 Acquired: 01/03/2025 13:08:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB051 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000004	-.009380	-.000948	-.001624	-.007239	-.000293
Stddev	.000378	.000532	.000819	.001830	.007378	.000206
%RSD	9111.552	5.673457	86.38896	112.7436	101.9213	70.35167
#1	.000323	-.009789	-.000039	-.003079	-.006387	-.000056
#2	-.000418	-.009572	-.001176	-.002223	-.000324	-.000392
#3	.000083	-.008778	-.001629	.000432	-.015006	-.000431

Elem	Li6707
Units	ppm
Avg	F .0156638
Stddev	.0032264
%RSD	20.59781
#1	.0192310
#2	.0129497
#3	.0148105

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1820.013	18635.04	1813.771	1371.427	2022.737
Stddev	5.651	35.45	6.025	2.752	6.694
%RSD	.3104649	.1902292	.3321910	.2006578	.3309291
#1	1824.133	18606.14	1806.814	1369.703	2029.871
#2	1822.334	18674.60	1817.309	1374.601	2021.748
#3	1813.572	18624.40	1817.190	1369.978	2016.593

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: ICSA051 Acquired: 01/03/2025 13:12:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA051 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0074544	.0031927	-.000350	.0169467	.0233405	244.8810
Stddev	.0028776	.0010692	.002556	.0045644	.0074442	.5007
%RSD	38.60308	33.48892	730.1681	26.93388	31.89368	.2044758
#1	.0082358	.0019621	.002397	.0220975	.0313350	244.6140
#2	.0098607	.0038943	-.002658	.0153383	.0166080	245.4586
#3	.0042668	.0037217	-.000789	.0134042	.0220785	244.5703

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041890	.0019645	.0021107	252.3211	.0534663	.0363422
Stddev	.0029083	.0000934	.0001189	.7491	.0002414	.0004795
%RSD	69.42647	4.751618	5.631994	.2968848	.4514145	1.319545
#1	.0008918	.0018814	.0022029	252.8266	.0532529	.0365528
#2	.0063891	.0019468	.0021527	252.6763	.0534179	.0366804
#3	.0052860	.0020655	.0019766	251.4605	.0537282	.0357934

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000283	102.0354	.0044010	264.1299	.0018849	-.006753
Stddev	.005782	.5953	.0018022	1.4337	.0010950	.000927
%RSD	2040.190	.5834603	40.94927	.5428190	58.09576	13.72872
#1	.005084	101.5976	.0062082	263.6457	.0027456	-.007350
#2	.000473	102.7133	.0043909	265.7431	.0006524	-.005685
#3	-.006407	101.7954	.0026039	263.0009	.0022566	-.007224

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2071856	.0017684	-.032666	.0861641	.0071669	F -.219530
Stddev	.0209173	.0085567	.000985	.0735077	.0062138	.001848
%RSD	10.09591	483.8631	3.015075	85.31120	86.70161	.8418727
#1	.2007468	-.004086	-.032418	.0309454	.0042483	-.220731
#2	.2305653	.011588	-.033752	.0579475	.0029497	-.220458
#3	.1902446	-.002197	-.031830	.1695996	.0143027	-.217402

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: ICSA051 Acquired: 01/03/2025 13:12:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA051 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0081297	.0138816	-.001839	F .0111155	-.004819	.0064564
Stddev	.0005213	.0104981	.001419	.0039043	.004548	.0007771
%RSD	6.412075	75.62620	77.17797	35.12515	94.37831	12.03555
#1	.0076981	.0094780	-.001027	.0095089	-.002040	.0073255
#2	.0087089	.0063024	-.001013	.0155668	-.010067	.0058286
#3	.0079820	.0258644	-.003478	.0082708	-.002349	.0062152

Elem	Li6707
Units	ppm
Avg	-.001568
Stddev	.001975
%RSD	125.9578
#1	-.003410
#2	-.001812
#3	.000518

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1692.588	17180.64	1728.607	1266.222	1760.400
Stddev	.918	67.10	13.037	8.884	1.596
%RSD	.0542317	.3905779	.7541819	.7015793	.0906691
#1	1693.348	17103.58	1714.526	1259.510	1760.454
#2	1692.848	17226.22	1731.039	1262.861	1761.968
#3	1691.568	17212.11	1740.257	1276.296	1758.777

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: ICSAB051 Acquired: 01/03/2025 13:30:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB051 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1105540	.1052969	.0544834	.0735933	.5945946	230.8458
Stddev	.0080456	.0065868	.0033071	.0050908	.0044290	.9807
%RSD	7.277566	6.255427	6.069845	6.917484	.7448683	.4248267
#1	.1162164	.1127920	.0528712	.0783855	.5996829	231.6659
#2	.1013443	.1004300	.0522917	.0682490	.5916061	231.1121
#3	.1141014	.1026687	.0582874	.0741455	.5924947	229.7595

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5441400	.5552487	1.055092	239.6750	.6124890	.5427696
Stddev	.0018021	.0023227	.001014	.2022	.0026829	.0003458
%RSD	.3311800	.4183199	.0961180	.0843463	.4380385	.0637054
#1	.5445500	.5579299	1.055829	239.8271	.6129932	.5431115
#2	.5457018	.5538496	1.053936	239.7523	.6148840	.5424201
#3	.5421683	.5539665	1.055512	239.4456	.6095897	.5427771

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4890100	96.76802	.5454623	249.7248	1.038176	.2026830
Stddev	.0128040	.37460	.0018664	1.2368	.001052	.0007037
%RSD	2.618346	.3871141	.3421752	.4952697	.1013504	.3471667
#1	.4819625	97.03379	.5475985	250.7535	1.037403	.2018753
#2	.5037895	96.93069	.5446414	250.0684	1.039374	.2030101
#3	.4812781	96.33958	.5441470	248.3525	1.037750	.2031635

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2104516	.5378842	.9708969	-.223013	.0043904	F -.219165
Stddev	.0208074	.0171337	.0045171	.120993	.0020025	.005399
%RSD	9.887017	3.185393	.4652503	54.25390	45.61145	2.463546
#1	.2333080	.5576102	.9756062	-.114204	.0020830	-.220218
#2	.2054371	.5267063	.9666004	-.201524	.0054133	-.223960
#3	.1926097	.5293361	.9704840	-.353311	.0056749	-.213317

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: ICSAB051 Acquired: 01/03/2025 13:30:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB051 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0086263	.0182254	.0009593	F .0123274	-.008717	.0065345
Stddev	.0004469	.0042271	.0020325	.0025319	.003474	.0006708
%RSD	5.180852	23.19328	211.8658	20.53885	39.85083	10.26592
#1	.0087816	.0223269	-.000795	.0150875	-.006967	.0072819
#2	.0089748	.0138830	.000487	.0101125	-.006466	.0059844
#3	.0081224	.0184663	.003186	.0117823	-.012717	.0063373

Elem	Li6707
Units	ppm
Avg	-.005403
Stddev	.002291
%RSD	42.40050
#1	-.007739
#2	-.005307
#3	-.003161

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1709.771	17271.25	1745.795	1280.182	1779.074
Stddev	1.419	10.56	7.348	2.108	4.179
%RSD	.0830215	.0611155	.4208926	.1646849	.2348716
#1	1708.202	17269.46	1737.318	1277.764	1775.207
#2	1710.143	17261.71	1749.733	1281.637	1783.507
#3	1710.967	17282.59	1750.335	1281.144	1778.507

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCV100 Acquired: 01/03/2025 13:34:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV100 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.986542	4.888869	24.96035	4.959169	4.936823	409.8822	10.29827
Stddev	.021184	.014230	.03067	.009875	.008344	2.0706	.02405
%RSD	.4248263	.2910782	.1228653	.1991356	.1690088	.5051680	.2335037
#1	5.010969	4.904279	24.99569	4.969753	4.940028	412.2683	10.32410
#2	4.973209	4.876223	24.94460	4.950201	4.943089	408.5579	10.29418
#3	4.975449	4.886106	24.94076	4.957552	4.927352	408.8204	10.27653

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5159455	2.506042	414.1373	15.76837	2.524426	15.47551	413.9884
Stddev	.0018574	.004692	1.1884	.00939	.004612	.07478	1.5830
%RSD	.3599902	.1872386	.2869548	.0595784	.1826846	.4832305	.3823762
#1	.5166609	2.511041	415.4750	15.75756	2.528553	15.55762	415.8040
#2	.5173387	2.501733	413.7337	15.77307	2.519448	15.45759	413.2635
#3	.5138368	2.505353	413.2034	15.77449	2.525278	15.41131	412.8977

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.39325	412.7765	2.526445	1.272928	415.9639	2.588262	15.03302
Stddev	.08296	.7637	.002099	.004559	.6968	.010486	.07294
%RSD	.5389299	.1850042	.0830893	.3581761	.1675212	.4051173	.4851728
#1	15.48847	413.5144	2.528868	1.272814	416.6049	2.576922	14.95422
#2	15.35473	411.9895	2.525184	1.277543	416.0648	2.590257	15.04667
#3	15.33656	412.8257	2.525282	1.268426	415.2222	2.597606	15.09816

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	157.3900	4.973658	4.525969	4.904945	5.015445	5.096419	5.047130
Stddev	.5998	.013484	.008418	.003580	.011632	.012706	.005707
%RSD	.3810702	.2710985	.1859825	.0729829	.2319246	.2493104	.1130646
#1	157.9709	4.978503	4.534763	4.907976	5.025276	5.089665	5.053592
#2	157.4261	4.984049	4.525156	4.905863	5.002604	5.111075	5.042784
#3	156.7730	4.958421	4.517987	4.900996	5.018455	5.088516	5.045013

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCV100 Acquired: 01/03/2025 13:34:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV100 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	5.155402	4.904750	5.130397
Stddev	.033260	.024801	.005420
%RSD	.6451533	.5056618	.1056432
#1	5.191528	4.932799	5.136491
#2	5.148626	4.895734	5.126117
#3	5.126051	4.885718	5.128584

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1513.393	16280.49	1677.318	1115.052	1626.775
Stddev	2.244	51.21	7.334	.185	3.115
%RSD	.1482801	.3145708	.4372331	.0165880	.1914730
#1	1514.556	16224.38	1670.440	1115.177	1627.064
#2	1514.817	16292.37	1676.479	1115.139	1629.735
#3	1510.807	16324.72	1685.036	1114.839	1623.525

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCB100 Acquired: 01/03/2025 13:37:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB100 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001673	-.000109	-.001720	-.001678	.0011823	.0043281	-.005963
Stddev	.001996	.002282	.001178	.005821	.0020692	.0369288	.002205
%RSD	119.2523	2100.830	68.48507	346.8483	175.0116	853.2392	36.97314
#1	.000375	.002349	-.003023	-.005494	.0019486	.0468252	-.007397
#2	-.001783	-.002162	-.000731	-.004561	-.001161	-.013883	-.003424
#3	-.003612	-.000513	-.001405	.005021	.002759	-.019958	-.007068

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000062	-.000056	-.054609	.0005948	-.000125	-.005152	-.011386
Stddev	.000108	.000080	.062180	.0003527	.000141	.002911	.044593
%RSD	174.0617	142.9535	113.8630	59.30461	113.4247	56.49256	391.6566
#1	.000048	-.000045	-.105681	.0009925	-.000184	-.007033	.017063
#2	-.000066	-.000142	.014631	.0004720	.000037	-.001800	.011559
#3	-.000168	.000018	-.072779	.0003199	-.000227	-.006624	-.062780

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000100	-.066178	-.001313	.0004146	.0296641	.0041681	-.001602
Stddev	.001889	.089846	.000687	.0006153	.0316405	.0169984	.000202
%RSD	1898.503	135.7641	52.31042	148.3967	106.6627	407.8167	12.62427
#1	.000635	.023991	-.000704	.0005626	.0602277	-.014529	-.001382
#2	.001312	-.155698	-.001177	.0009425	.0317180	.008343	-.001645
#3	-.002246	-.066828	-.002058	-.000261	-.002953	.018690	-.001779

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1852553	-.001183	.0113102	.0001302	-.009330	.0001185	-.000501
Stddev	.2963684	.002583	.0028380	.0005292	.002434	.0010695	.000370
%RSD	159.9784	218.4345	25.09257	406.3843	26.08802	902.4208	73.81336
#1	.2568894	-.003763	.0124735	.0001383	-.009235	.0009452	-.000928
#2	.4392409	.001404	.0133817	.0006553	-.006945	-.001089	-.000269
#3	-.140365	-.001190	.0080754	-.000403	-.011810	.000500	-.000307

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCB100 Acquired: 01/03/2025 13:37:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB100 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.002872	-.000215	.0009120
Stddev	.000308	.000142	.0009635
%RSD	10.73001	66.00238	105.6438
#1	-.002846	-.000163	-.000184
#2	-.003193	-.000106	.001625
#3	-.002578	-.000375	.001295

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1832.373	18733.64	1824.587	1384.055	2038.329
Stddev	2.951	99.02	10.851	5.080	1.184
%RSD	.1610259	.5285894	.5947188	.3670705	.0581008
#1	1835.752	18620.28	1824.262	1378.224	2037.168
#2	1830.303	18803.24	1813.902	1386.420	2039.535
#3	1831.066	18777.42	1835.597	1387.523	2038.286

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165852BL Acquired: 01/03/2025 13:42:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS852 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0037663	.0006222	-.001517	.0047876	.0011304	.0006822	-.001840
Stddev	.0036811	.0006579	.000459	.0035549	.0030864	.0365169	.001057
%RSD	97.73913	105.7340	30.24262	74.25247	273.0374	5352.980	57.47859
#1	.0073179	.0013428	-.001089	.0048024	.0028365	.0201295	-.000661
#2	-.000032	.0004705	-.002001	.0012253	-.002432	-.041443	-.002152
#3	.004013	.0000534	-.001461	.0083350	.002987	.023360	-.002706

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001204	.0000162	-.066570	-.000764	-.000122	.0001484	.0172846
Stddev	.0001137	.0000757	.045542	.000467	.000559	.0008256	.0108082
%RSD	94.43201	466.3137	68.41177	61.13512	460.0232	556.5042	62.53072
#1	.0002015	-.000010	-.050597	-.000955	.000198	.0009089	.0093394
#2	.0001692	-.000043	-.031167	-.001105	.000205	-.000730	.0129223
#3	-.000010	.000101	-.117946	-.000232	-.000767	.000266	.0295922

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000866	-.040454	-.000709	.0000172	-.006236	.0030196	-.000342
Stddev	.0020389	.110406	.000828	.0011003	.013062	.0095672	.000098
%RSD	2353.598	272.9208	116.7753	6395.401	209.4542	316.8316	28.65628
#1	.0011814	.016969	-.000590	-.000932	-.009859	-.000010	-.000367
#2	.0013443	.029408	-.001589	-.000239	.008255	-.004666	-.000425
#3	-.002266	-.167737	.000053	.001223	-.017103	.013735	-.000234

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0937974	.0041862	.0011967	-.000397	-.014803	-.002279	-.001164
Stddev	.2338474	.0030986	.0033432	.000526	.003329	.000222	.000959
%RSD	249.3112	74.01978	279.3636	132.4196	22.49207	9.733178	82.41282
#1	.1938777	.0007447	.0022868	-.000508	-.018530	-.002094	-.001672
#2	.2609497	.0050593	-.002555	.000175	-.012123	-.002218	-.001761
#3	-.173435	.0067545	.003859	-.000858	-.013755	-.002525	-.000057

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165852BL Acquired: 01/03/2025 13:42:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS852 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.008980	-.000218	-.004448
Stddev	.003964	.000238	.003409
%RSD	44.14217	109.2675	76.64680
#1	-.012598	-.000355	-.008035
#2	-.009599	-.000356	-.001250
#3	-.004743	.000057	-.004058

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1829.139	18690.37	1820.079	1372.637	2033.793
Stddev	.681	20.81	4.763	2.285	3.489
%RSD	.0372424	.1113499	.2616869	.1664422	.1715561
#1	1828.526	18675.20	1814.928	1371.277	2031.371
#2	1829.873	18681.82	1824.323	1375.275	2037.792
#3	1829.020	18714.09	1820.988	1371.360	2032.216

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165852BS Acquired: 01/03/2025 13:46:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS852 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0250250	.0518862	.0157661	.0594546	.1105526	.3988026
Stddev	.0041921	.0020297	.0015937	.0045048	.0013525	.0600675
%RSD	16.75158	3.911763	10.10853	7.576796	1.223423	15.06195
#1	.0225822	.0532774	.0175515	.0645941	.1114249	.3379441
#2	.0298656	.0495572	.0152597	.0575792	.1089945	.4004174
#3	.0226274	.0528241	.0144871	.0561906	.1112383	.4580464

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4003362	.0105701	.0097297	9.988173	.0204020	.1001975
Stddev	.0021663	.0000230	.0000123	.084163	.0003443	.0002855
%RSD	.5411200	.2173352	.1268051	.8426285	1.687662	.2849299
#1	.4028335	.0105966	.0097304	9.894825	.0204993	.0999532
#2	.3992113	.0105553	.0097171	10.01144	.0200195	.1001279
#3	.3989637	.0105585	.0097417	10.05826	.0206872	.1005113

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0502458	.2231042	.0313630	10.36965	.0773147	.0197099
Stddev	.0091431	.0269094	.0012290	.07067	.0007438	.0001884
%RSD	18.19669	12.06136	3.918549	.6815015	.9620995	.9557383
#1	.0566011	.1982645	.0299499	10.29705	.0767018	.0198989
#2	.0543690	.2516906	.0321826	10.43822	.0771001	.0197085
#3	.0397672	.2193575	.0319564	10.37368	.0781423	.0195222

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.503226	.0940941	.1157011	9.373038	.0184724	F -.001123
Stddev	.037973	.0119299	.0006724	.112839	.0041228	.001484
%RSD	.5060839	12.67871	.5811491	1.203873	22.31891	132.1102
#1	7.547072	.1048238	.1162108	9.487120	.0171592	-.002757
#2	7.481442	.0962111	.1149390	9.261484	.0151661	-.000752
#3	7.481163	.0812474	.1159535	9.370511	.0230918	.000140

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165852BS Acquired: 01/03/2025 13:46:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS852 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0197065	.1681094	F .4872956	.0121342	.1981951	.2098052
Stddev	.0007934	.0039046	.0012669	.0005946	.0041570	.0004595
%RSD	4.026101	2.322655	.2599880	4.899934	2.097422	.2189954
#1	.0202328	.1721535	.4871023	.0127934	.2019885	.2094059
#2	.0187940	.1678133	.4861365	.0119711	.1937512	.2097023
#3	.0200929	.1643612	.4886481	.0116383	.1988456	.2103074

Elem	Li6707
Units	ppm
Avg	.0252894
Stddev	.0040789
%RSD	16.12885
#1	.0298455
#2	.0219776
#3	.0240450

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1818.570	18354.06	1800.244	1357.495	2014.601
Stddev	2.965	5.86	2.906	2.364	3.055
%RSD	.1630611	.0319269	.1614237	.1741272	.1516552
#1	1816.884	18347.50	1801.732	1357.068	2011.727
#2	1821.994	18355.87	1796.895	1355.374	2017.810
#3	1816.831	18358.79	1802.104	1360.043	2014.266

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165860BL Acquired: 01/03/2025 13:50:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS860 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019130	-.001470	-.004329	.0003007	.0014815	.0138906	.0008215
Stddev	.0023410	.004553	.001458	.0061589	.0032747	.0134101	.0036393
%RSD	122.3757	309.7723	33.68230	2048.229	221.0437	96.54137	443.0249
#1	.0004311	.002598	-.003251	-.005587	.0015450	.0293753	.0048148
#2	.0006960	-.006389	-.005989	.006699	.0047240	.0061656	-.002309
#3	.0046119	-.000619	-.003749	-.000210	-.001825	.0061308	-.000042

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000119	.0000148	-.062357	-.000153	-.000137	.0026251	.0327388
Stddev	.000117	.0001146	.006475	.000324	.000323	.0094465	.0176262
%RSD	97.74664	772.5520	10.38335	211.3306	235.9532	359.8527	53.83888
#1	-.000161	-.000110	-.066170	.000105	-.000482	-.003388	.0288588
#2	.000012	.000040	-.054881	-.000517	.000158	-.002250	.0519818
#3	-.000210	.000115	-.066020	-.000049	-.000087	.013513	.0173759

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002707	-.150011	.0001080	.0014815	-.005553	-.002012	-.000217
Stddev	.0008248	.151300	.0000723	.0010095	.028111	.016189	.000533
%RSD	304.6645	100.8591	66.95756	68.14452	506.2711	804.7698	245.5462
#1	.0008751	-.324285	.0001913	.0006726	-.037957	-.020138	-.000089
#2	-.000669	-.052233	.0000714	.0011589	.012287	.011006	-.000803
#3	.000606	-.073516	.0000613	.0026128	.009012	.003097	.000240

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0821578	-.002990	-.002805	-.000524	-.007115	-.000941	-.000561
Stddev	.1998575	.002523	.001905	.000966	.000988	.000699	.001343
%RSD	243.2604	84.39956	67.91559	184.3627	13.88060	74.22252	239.5626
#1	.2209570	-.000088	-.003589	.000349	-.007786	-.001385	-.000499
#2	-.146911	-.004670	-.004193	-.001562	-.007578	-.000136	-.001934
#3	.172427	-.004211	-.000633	-.000359	-.005981	-.001303	.000751

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165860BL Acquired: 01/03/2025 13:50:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS860 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.003543	-.000290	-.007045
Stddev	.003927	.000146	.002857
%RSD	110.8506	50.46603	40.55214
#1	-.008018	-.000132	-.004593
#2	-.001941	-.000318	-.006360
#3	-.000670	-.000421	-.010182

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1822.483	18456.07	1818.392	1370.460	2018.780
Stddev	4.598	24.38	7.214	8.296	2.542
%RSD	.2522965	.1321130	.3967109	.6053716	.1259367
#1	1826.273	18429.68	1817.951	1360.881	2019.225
#2	1817.368	18477.76	1811.409	1375.349	2016.044
#3	1823.807	18460.78	1825.816	1375.150	2021.070

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165861BL Acquired: 01/03/2025 13:58:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS861 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018887	.0006285	-.001874	.0024279	.0008751	.0094990	-.000254
Stddev	.0022029	.0018584	.001880	.0037931	.0035719	.0318746	.005352
%RSD	116.6329	295.6639	100.2851	156.2292	408.1533	335.5583	2104.490
#1	.0027767	.0025859	-.001550	-.001620	.0023139	.0348138	.005917
#2	.0035091	-.001112	-.003895	.005901	-.003192	-.026296	-.003625
#3	-.000620	.000412	-.000178	.003003	.003503	.019979	-.003055

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000334	-.000044	-.031025	-.000153	-.000385	-.012164	-.010027
Stddev	.0000204	.000074	.031703	.000477	.000403	.008894	.035932
%RSD	61.03721	167.1007	102.1860	312.1413	104.6443	73.12060	358.3327
#1	.0000533	-.000001	-.039845	-.000704	.000046	-.013301	-.038345
#2	.0000344	-.000002	.004154	.000117	-.000449	-.020435	-.022130
#3	.0000126	-.000130	-.057384	.000129	-.000752	-.002756	.030393

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006743	-.121367	.0000944	.0011024	-.001239	.0044215	-.000371
Stddev	.0008268	.132425	.0003490	.0011685	.006994	.0040341	.000115
%RSD	122.6211	109.1112	369.8074	106.0005	564.3448	91.23721	31.06509
#1	-.000130	-.045836	.0002309	.0003400	.005421	.0077193	-.000495
#2	.001522	-.274274	-.000302	.0024477	-.000614	-.000076	-.000267
#3	.000631	-.043990	.000355	.0005194	-.008525	.005622	-.000352

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.163308	-.002702	-.002315	-.000444	-.010022	-.000348	-.000382
Stddev	.287078	.001975	.001276	.000543	.002846	.001686	.001533
%RSD	175.7894	73.07371	55.09868	122.3213	28.39921	484.1239	401.8829
#1	-.026963	-.000756	-.002795	-.000566	-.009709	-.000188	.001334
#2	-.493151	-.002648	-.000869	.000150	-.013012	.001252	-.000858
#3	.030190	-.004704	-.003281	-.000917	-.007345	-.002108	-.001620

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165861BL Acquired: 01/03/2025 13:58:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS861 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.005132	-.000347	-.008406
Stddev	.010249	.000529	.001737
%RSD	199.7020	152.4971	20.66167
#1	-.012895	.000197	-.006918
#2	.006486	-.000378	-.010314
#3	-.008988	-.000859	-.007986

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1828.715	18458.90	1819.945	1371.574	2025.503
Stddev	2.200	28.51	5.342	9.817	1.686
%RSD	.1202984	.1544278	.2935020	.7157297	.0832574
#1	1827.343	18468.38	1818.322	1381.209	2026.567
#2	1827.550	18426.87	1825.910	1361.585	2023.559
#3	1831.252	18481.46	1815.603	1371.927	2026.384

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165860BS Acquired: 01/03/2025 14:02:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS860 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0193195	.0492350	.0163697	.0612387	.1049310	.3831966
Stddev	.0023566	.0032124	.0037183	.0014774	.0023419	.0383136
%RSD	12.19812	6.524680	22.71474	2.412576	2.231805	9.998427
#1	.0171396	.0470602	.0142344	.0623174	.1030004	.3557476
#2	.0218200	.0529248	.0206633	.0618440	.1075361	.4269685
#3	.0189989	.0477201	.0142115	.0595547	.1042565	.3668736

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3896520	.0101830	.0094183	9.846625	.0202288	.0969317
Stddev	.0031118	.0001771	.0001501	.056521	.0009897	.0003192
%RSD	.7986004	1.739516	1.593584	.5740187	4.892683	.3293569
#1	.3915122	.0100284	.0094295	9.904793	.0213623	.0970440
#2	.3860596	.0101443	.0092630	9.843176	.0197879	.0965714
#3	.3913841	.0103763	.0095625	9.791908	.0195361	.0971796

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0457529	.1855780	.0324484	10.09392	.0753242	.0203176
Stddev	.0040047	.0222975	.0019845	.08930	.0008301	.0006710
%RSD	8.752791	12.01516	6.115858	.8847360	1.102044	3.302533
#1	.0475997	.2101065	.0347178	10.17789	.0761153	.0208380
#2	.0485008	.1800917	.0310390	10.10376	.0753972	.0205544
#3	.0411581	.1665358	.0315883	10.00010	.0744599	.0195603

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.325321	.1041099	.1155368	8.960629	.0176373	F -.004256
Stddev	.016844	.0106574	.0009398	.122477	.0016351	.000549
%RSD	.2299479	10.23668	.8133831	1.366835	9.270521	12.89914
#1	7.336719	.1164029	.1149333	9.095491	.0161202	-.003997
#2	7.305973	.0984546	.1166195	8.930072	.0174226	-.004887
#3	7.333271	.0974721	.1150575	8.856323	.0193692	-.003885

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165860BS Acquired: 01/03/2025 14:02:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS860 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0195393	.1644094	F .4794011	.0114457	.1922740	.2063134
Stddev	.0006922	.0022170	.0006802	.0021509	.0044392	.0007081
%RSD	3.542550	1.348467	.1418929	18.79216	2.308762	.3432220
#1	.0195946	.1631838	.4795976	.0134419	.1947723	.2071163
#2	.0188211	.1630758	.4799615	.0117272	.1871486	.2060457
#3	.0202022	.1669687	.4786443	.0091679	.1949010	.2057781

Elem	Li6707
Units	ppm
Avg	.0220965
Stddev	.0035708
%RSD	16.15987
#1	.0230173
#2	.0181555
#3	.0251166

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1804.212	18250.19	1797.329	1348.219	1999.843
Stddev	4.713	120.46	10.041	7.670	7.620
%RSD	.2612361	.6600644	.5586411	.5688699	.3810326
#1	1806.012	18126.55	1787.732	1351.024	2001.666
#2	1807.759	18256.83	1796.494	1339.542	2006.387
#3	1798.863	18367.20	1807.761	1354.092	1991.478

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165861BS Acquired: 01/03/2025 14:06:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS861 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0226678	.0557892	.0204420	.0657766	.1094461	.4390022
Stddev	.0035805	.0005129	.0031689	.0047820	.0007720	.0109290
%RSD	15.79538	.9193454	15.50218	7.270085	.7053771	2.489513
#1	.0262553	.0551979	.0239848	.0652854	.1091194	.4385687
#2	.0190944	.0560558	.0178779	.0707852	.1103277	.4282964
#3	.0226536	.0561138	.0194631	.0612591	.1088911	.4501415

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4046647	.0106969	.0097361	10.14209	.0213897	.1011931
Stddev	.0028052	.0001779	.0001086	.07096	.0004931	.0002976
%RSD	.6932181	1.662923	1.115515	.6996672	2.305214	.2941278
#1	.4040035	.0105585	.0096523	10.21821	.0219070	.1008543
#2	.4077414	.0106346	.0096971	10.07777	.0209251	.1014124
#3	.4022491	.0108975	.0098588	10.13028	.0213370	.1013125

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0405516	.1967667	.0341002	10.56893	.0779584	.0210054
Stddev	.0064968	.0366466	.0002488	.07639	.0007910	.0018468
%RSD	16.02117	18.62437	.7297141	.7227509	1.014613	8.791935
#1	.0450679	.2083815	.0339993	10.65327	.0788063	.0210614
#2	.0434811	.1557203	.0343836	10.50439	.0778282	.0191312
#3	.0331059	.2261985	.0339176	10.54914	.0772405	.0228235

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.638022	.1106441	.1184398	9.524075	.0186710	F -.003657
Stddev	.038568	.0016318	.0009836	.293454	.0002739	.001839
%RSD	.5049415	1.474794	.8304436	3.081178	1.466983	50.28037
#1	7.671241	.1103298	.1176914	9.534691	.0185640	-.003237
#2	7.595726	.1091923	.1180742	9.225458	.0184667	-.002065
#3	7.647100	.1124101	.1195538	9.812077	.0189822	-.005670

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165861BS Acquired: 01/03/2025 14:06:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS861 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0195475	.1737788	F .4947446	.0110611	.1919551	.2116770
Stddev	.0005113	.0045943	.0007708	.0025396	.0035219	.0011396
%RSD	2.615757	2.643780	.1558023	22.95972	1.834778	.5383734
#1	.0190536	.1764440	.4947768	.0093825	.1930352	.2128773
#2	.0200746	.1684738	.4954988	.0098181	.1948105	.2106097
#3	.0195142	.1764186	.4939582	.0139828	.1880195	.2115439

Elem	Li6707
Units	ppm
Avg	.0247382
Stddev	.0004272
%RSD	1.727061
#1	.0248481
#2	.0242668
#3	.0250998

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1802.775	18396.19	1796.447	1352.570	1995.434
Stddev	1.194	93.09	10.733	2.710	4.093
%RSD	.0662077	.5060309	.5974361	.2003299	.2051050
#1	1803.926	18291.88	1787.655	1350.344	1998.164
#2	1802.856	18470.82	1808.407	1355.587	1997.409
#3	1801.543	18425.86	1793.279	1351.778	1990.728

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165841BL Acquired: 01/03/2025 14:10:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS841 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009420	-.003166	-.002514	.0039044	-.000284	-.018817	-.000109
Stddev	.0025760	.001169	.000811	.0037483	.002082	.021439	.001697
%RSD	273.4756	36.92740	32.26335	96.00347	732.9619	113.9341	1550.724
#1	.0023287	-.004112	-.002638	.0012322	.001098	-.008540	-.000122
#2	.0025276	-.003526	-.001647	.0081891	.000729	-.043460	.001594
#3	-.002030	-.001859	-.003255	.0022917	-.002678	-.004451	-.001800

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000128	-.000024	-.076450	-.000654	-.000232	-.006281	-.010009
Stddev	.000159	.000133	.062077	.000801	.000251	.014241	.088382
%RSD	124.3000	560.5623	81.19884	122.4119	108.1974	226.7412	883.0185
#1	-.000005	-.000176	-.073387	-.001457	-.000343	.008904	.077600
#2	-.000071	.000064	-.015962	-.000651	.000055	-.008408	-.099143
#3	-.000308	.000041	-.140003	.000145	-.000410	-.019338	-.008484

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000045	-.072943	-.000267	.0014438	-.022292	-.010957	-.001099
Stddev	.000797	.069920	.001102	.0009305	.009881	.010383	.000762
%RSD	1773.878	95.85589	412.9791	64.44920	44.32549	94.76290	69.33919
#1	.000838	.007729	-.000250	.0019732	-.018449	.000779	-.000255
#2	-.000263	-.110471	-.001377	.0019888	-.014910	-.018950	-.001305
#3	-.000711	-.116086	.000826	.0003694	-.033517	-.014701	-.001737

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.064183	.0019580	-.005842	.0000298	-.011951	-.001795	-.000271
Stddev	.115068	.0035120	.000335	.0002220	.001804	.000933	.002339
%RSD	179.2813	179.3672	5.735922	745.1183	15.09213	51.98523	864.5207
#1	.060784	.0002405	-.006028	.0002857	-.013749	-.002853	-.002580
#2	-.087574	-.000365	-.005455	-.000111	-.010142	-.001447	-.000328
#3	-.165758	.005998	-.006043	-.000085	-.011960	-.001087	.002097

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165841BL Acquired: 01/03/2025 14:10:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS841 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.006481	-.000203	-.011148
Stddev	.006343	.000155	.001552
%RSD	97.87112	76.29544	13.91745
#1	.000559	-.000034	-.012688
#2	-.011750	-.000338	-.011171
#3	-.008251	-.000237	-.009585

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1831.968	18676.83	1834.648	1377.412	2033.572
Stddev	2.218	120.81	3.725	2.832	.650
%RSD	.1210937	.6468276	.2030245	.2055699	.0319621
#1	1832.116	18637.74	1830.434	1380.286	2033.064
#2	1829.679	18580.40	1837.502	1377.324	2033.347
#3	1834.109	18812.34	1836.008	1374.625	2034.304

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165841BS Acquired: 01/03/2025 14:14:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS841 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0257030	.0503791	.0166280	.0629391	.1060288	.3810145
Stddev	.0055634	.0027468	.0010854	.0034320	.0019410	.0078906
%RSD	21.64483	5.452310	6.527697	5.452888	1.830618	2.070954
#1	.0207109	.0472302	.0174223	.0668854	.1059815	.3884871
#2	.0317005	.0516238	.0153913	.0612797	.1041119	.3817930
#3	.0246976	.0522832	.0170706	.0606522	.1079930	.3727635

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3951200	.0105827	.0095444	9.994091	.0217659	.0988883
Stddev	.0054338	.0000642	.0001189	.096795	.0008259	.0005208
%RSD	1.375234	.6066715	1.245268	.9685203	3.794690	.5266853
#1	.3898497	.0105593	.0096165	9.890140	.0226097	.0987770
#2	.3948064	.0106554	.0094072	10.01050	.0209591	.0994558
#3	.4007038	.0105335	.0096094	10.08163	.0217289	.0984322

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0466072	.2314789	.0322006	10.28877	.0763590	.0197018
Stddev	.0078511	.0405175	.0012569	.21818	.0008039	.0004221
%RSD	16.84533	17.50373	3.903205	2.120596	1.052774	2.142564
#1	.0478604	.1891218	.0312809	10.15728	.0754612	.0201268
#2	.0537563	.2698642	.0336328	10.16842	.0766036	.0192826
#3	.0382048	.2354507	.0316883	10.54063	.0770121	.0196962

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.384619	.0961964	.1177585	9.170215	.0198747	F -.005657
Stddev	.072050	.0169411	.0002404	.151127	.0014557	.002239
%RSD	.9756736	17.61097	.2041900	1.648020	7.324323	39.58369
#1	7.327238	.1094540	.1175052	9.003079	.0185915	-.007020
#2	7.361138	.0771105	.1177868	9.297241	.0195760	-.006879
#3	7.465479	.1020246	.1179836	9.210324	.0214566	-.003073

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165841BS Acquired: 01/03/2025 14:14:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS841 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0195934	.1656915	F .4844070	.0121014	.1868319	.2084243
Stddev	.0005267	.0030423	.0074235	.0014583	.0047910	.0014979
%RSD	2.688356	1.836149	1.532489	12.05090	2.564320	.7186934
#1	.0201545	.1623596	.4767892	.0128848	.1821611	.2068749
#2	.0191096	.1683216	.4848123	.0104188	.1917346	.2085332
#3	.0195159	.1663933	.4916195	.0130006	.1865999	.2098648

Elem	Li6707
Units	ppm
Avg	F .0187955
Stddev	.0011380
%RSD	6.054491
#1	.0174877
#2	.0195595
#3	.0193394

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1806.264	18294.36	1800.769	1348.480	1999.828
Stddev	4.666	95.66	17.378	5.312	3.442
%RSD	.2583084	.5229196	.9650447	.3939074	.1721128
#1	1803.256	18208.97	1817.345	1344.131	1996.362
#2	1811.638	18397.75	1802.276	1354.400	2003.246
#3	1803.896	18276.37	1782.687	1346.909	1999.876

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165850BL Acquired: 01/03/2025 14:18:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS850 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002931	.0013812	-.003206	.0004199	.0032774	.0255520	.0008865
Stddev	.003707	.0022992	.002261	.0023064	.0022213	.0168888	.0002919
%RSD	126.4503	166.4652	70.52465	549.3198	67.77705	66.09581	32.93188
#1	-.003129	.0018747	-.005142	-.001875	.0046673	.0294565	.0009640
#2	.000870	-.001125	-.003757	.002738	.0044494	.0070529	.0005636
#3	-.006535	.003394	-.000721	.000396	.0007155	.0401467	.0011319

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000009	.0000295	-.046361	-.001235	-.000146	-.007655	-.012908
Stddev	.000031	.0001593	.045782	.000775	.000142	.005902	.046579
%RSD	340.2136	540.4489	98.75262	62.77975	96.97526	77.10318	360.8521
#1	.000018	.0001172	-.008699	-.001648	-.000006	-.010889	.039531
#2	-.000043	.0001257	-.097320	-.000340	-.000290	-.011234	-.028770
#3	-.000003	-.000154	-.033063	-.001716	-.000142	-.000843	-.049485

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001075	-.093822	-.000742	-.000417	-.018279	-.004754	.0007482
Stddev	.0033614	.078495	.000198	.000324	.022364	.007663	.0008345
%RSD	3126.591	83.66429	26.68450	77.72925	122.3464	161.1980	111.5412
#1	-.003185	-.090188	-.000799	-.000108	-.001505	-.009588	.0013617
#2	.003534	-.174071	-.000522	-.000755	-.043669	-.008756	.0010848
#3	-.000027	-.017207	-.000905	-.000388	-.009662	.004082	-.000202

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.170305	.0004208	-.003500	.0002186	-.007821	-.001024	-.000145
Stddev	.225946	.0018542	.001614	.0007359	.003784	.000322	.000639
%RSD	132.6711	440.6705	46.11025	336.7316	48.37954	31.41202	441.3886
#1	.086071	.0025557	-.001755	.0006771	-.009320	-.001273	-.000240
#2	-.256601	-.000787	-.004939	-.000630	-.003517	-.000661	-.000730
#3	-.340386	-.000506	-.003805	.000609	-.010625	-.001137	.000536

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165850BL Acquired: 01/03/2025 14:18:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS850 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.008130	-.000131	-.013765
Stddev	.003466	.000247	.005280
%RSD	42.62412	188.5152	38.35791
#1	-.012081	-.000155	-.007691
#2	-.006708	.000127	-.017254
#3	-.005603	-.000365	-.016350

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1818.514	18365.43	1817.613	1367.427	2009.627
Stddev	7.171	103.68	8.818	3.885	4.785
%RSD	.3943202	.5645602	.4851505	.2841304	.2380999
#1	1818.041	18313.82	1807.554	1363.004	2008.401
#2	1825.910	18484.79	1821.269	1370.287	2014.905
#3	1811.592	18297.68	1824.014	1368.991	2005.574

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165840BL Acquired: 01/03/2025 14:26:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS840 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022488	-.001644	-.003250	.0007486	-.002514	-.002230	-.003247
Stddev	.0027611	.001982	.002322	.0022021	.002884	.039876	.003017
%RSD	122.7801	120.5134	71.46157	294.1607	114.6901	1788.423	92.94076
#1	.0002079	-.003514	-.001983	-.001734	-.005342	.030544	-.005803
#2	.0053905	-.001852	-.005930	.001513	-.002623	.009393	-.004019
#3	.0011480	.000433	-.001836	.002467	.000422	-.046626	.000082

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000995	.0000157	-.090654	-.000748	-.000042	-.011982	.0097595
Stddev	.0000797	.0001114	.012306	.000825	.000416	.003270	.0328219
%RSD	80.10609	709.1543	13.57446	110.2296	994.2260	27.29529	336.3070
#1	.0000126	.0001399	-.088275	-.000781	-.000156	-.008217	-.027886
#2	.0001167	-.000076	-.079712	.000093	-.000389	-.013610	.032379
#3	.0001692	-.000017	-.103976	-.001556	.000419	-.014118	.024785

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000759	-.062874	-.000357	-.000520	-.027790	.0049959	-.000640
Stddev	.000701	.084500	.000629	.001433	.011489	.0062379	.000135
%RSD	92.42723	134.3950	176.1608	275.6881	41.34136	124.8598	21.07122
#1	-.000075	-.000976	-.000184	-.001946	-.014526	-.000817	-.000708
#2	-.000724	-.028504	.000168	.000921	-.034204	.011586	-.000727
#3	-.001476	-.159143	-.001054	-.000534	-.034639	.004218	-.000485

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.198172	-.001655	-.005429	-.000244	-.009308	-.001644	-.001228
Stddev	.067257	.000339	.000376	.000297	.000607	.000178	.000613
%RSD	33.93853	20.48789	6.923281	121.6132	6.518904	10.81097	49.92173
#1	-.275275	-.002024	-.005853	.000035	-.009687	-.001446	-.001373
#2	-.167672	-.001359	-.005295	-.000211	-.008608	-.001790	-.001756
#3	-.151569	-.001581	-.005137	-.000556	-.009628	-.001696	-.000556

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165840BL Acquired: 01/03/2025 14:26:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS840 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.006510	-.000355	-.012594
Stddev	.002724	.000333	.000925
%RSD	41.84871	93.77344	7.345473
#1	-.003384	-.000320	-.012497
#2	-.007770	-.000704	-.013564
#3	-.008377	-.000041	-.011722

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1823.219	18295.00	1833.172	1355.557	2016.632
Stddev	4.717	132.99	5.258	13.072	2.109
%RSD	.2587115	.7269309	.2868364	.9642961	.1046005
#1	1823.990	18283.34	1833.283	1357.570	2018.938
#2	1818.164	18168.22	1838.373	1341.595	2014.799
#3	1827.503	18433.44	1827.859	1367.505	2016.159

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165840BS Acquired: 01/03/2025 14:34:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS840 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0257858	.0497520	.0182802	.0656493	.1101429	.4671989
Stddev	.0042828	.0031900	.0005494	.0035138	.0023347	.0297720
%RSD	16.60912	6.411762	3.005626	5.352321	2.119738	6.372439
#1	.0211247	.0510732	.0178440	.0639210	.1076856	.4345700
#2	.0266851	.0520692	.0188973	.0633343	.1123318	.4741383
#3	.0295475	.0461137	.0180993	.0696924	.1104113	.4928883

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3977809	.0106057	.0096960	10.03148	.0204371	.1003363
Stddev	.0030890	.0001184	.0001057	.05697	.0006005	.0005609
%RSD	.7765563	1.116213	1.089883	.5679182	2.938321	.5589801
#1	.3965908	.0106423	.0096758	10.02403	.0197796	.0998045
#2	.3954639	.0104734	.0096018	9.97859	.0205753	.1002822
#3	.4012879	.0107015	.0098103	10.09180	.0209565	.1009223

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0423210	.2405823	.0335321	10.32644	.0766265	.0186899
Stddev	.0248602	.0274262	.0005871	.21680	.0002992	.0018497
%RSD	58.74195	11.39993	1.750836	2.099419	.3905356	9.896821
#1	.0648142	.2481602	.0332946	10.25819	.0768147	.0179484
#2	.0465200	.2634229	.0331010	10.56915	.0767833	.0173260
#3	.0156287	.2101639	.0342008	10.15199	.0762814	.0207953

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.440452	.0997960	.1166708	9.373095	.0187193	F -.005095
Stddev	.023508	.0072044	.0012981	.139098	.0017496	.000584
%RSD	.3159420	7.219118	1.112600	1.484012	9.346685	11.45782
#1	7.414491	.1072700	.1157368	9.242546	.0172049	-.004568
#2	7.446568	.0928955	.1181530	9.357337	.0206345	-.004994
#3	7.460297	.0992225	.1161224	9.519400	.0183184	-.005723

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165840BS Acquired: 01/03/2025 14:34:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS840 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0190082	.1640598	F .4852931	.0123197	.1906594	.2078182
Stddev	.0002151	.0040079	.0039454	.0010998	.0035822	.0002882
%RSD	1.131723	2.442960	.8129833	8.927044	1.878870	.1386879
#1	.0187831	.1674439	.4846842	.0111406	.1878946	.2079958
#2	.0190297	.1651016	.4816876	.0133177	.1893774	.2079731
#3	.0192118	.1596338	.4895075	.0125009	.1947063	.2074856

Elem	Li6707
Units	ppm
Avg	.0233053
Stddev	.0028773
%RSD	12.34613
#1	.0203672
#2	.0261177
#3	.0234308

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1789.281	18347.29	1801.516	1356.821	1985.423
Stddev	4.879	109.14	1.374	8.710	5.075
%RSD	.2726745	.5948601	.0762469	.6419063	.2556003
#1	1793.624	18334.54	1801.390	1357.792	1991.260
#2	1790.218	18245.08	1802.949	1347.666	1982.958
#3	1784.002	18462.24	1800.210	1365.004	1982.052

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165850BS Acquired: 01/03/2025 14:38:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS850 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0230369	.0490453	.0190364	.0655245	.1103330	.4070655
Stddev	.0049299	.0033962	.0006217	.0033985	.0016067	.0109842
%RSD	21.40015	6.924701	3.265739	5.186630	1.456255	2.698375
#1	.0215472	.0469096	.0197500	.0626764	.1108233	.3961398
#2	.0190236	.0472648	.0187471	.0646105	.1085382	.4069495
#3	.0285399	.0529616	.0186120	.0692865	.1116374	.4181071

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4067333	.0105608	.0097936	10.23850	.0210943	.1015717
Stddev	.0024723	.0000812	.0001053	.04479	.0005728	.0005772
%RSD	.6078476	.7690675	1.075543	.4374934	2.715265	.5682499
#1	.4067454	.0104901	.0096827	10.19230	.0205598	.1012779
#2	.4042550	.0105428	.0098059	10.24144	.0210243	.1012005
#3	.4091995	.0106495	.0098923	10.28174	.0216989	.1022366

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0382080	.2207564	.0329640	10.52516	.0787894	.0216298
Stddev	.0016464	.0023711	.0017417	.06941	.0005347	.0013559
%RSD	4.309120	1.074089	5.283580	.6594640	.6787053	6.268827
#1	.0365087	.2213555	.0322927	10.48471	.0785508	.0210665
#2	.0383195	.2227706	.0349415	10.48546	.0784155	.0231766
#3	.0397959	.2181432	.0316579	10.60530	.0794019	.0206463

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.529171	.0975673	.1176485	9.577862	.0204704	F -.004464
Stddev	.037480	.0092208	.0008658	.155139	.0006610	.002658
%RSD	.4977942	9.450682	.7358964	1.619764	3.229226	59.54725
#1	7.487886	.1065311	.1185892	9.411525	.0197229	-.005456
#2	7.538569	.0881094	.1174712	9.718625	.0207105	-.006483
#3	7.561057	.0980613	.1168851	9.603434	.0209778	-.001452

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165850BS Acquired: 01/03/2025 14:38:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS850 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0202184	.1702961	F .4917840	.0126261	.1909241	.2127274
Stddev	.0011909	.0036957	.0027498	.0023266	.0058113	.0003471
%RSD	5.890200	2.170173	.5591402	18.42716	3.043780	.1631433
#1	.0188892	.1711469	.4891403	.0147967	.1951264	.2123914
#2	.0205778	.1734923	.4915828	.0129119	.1933536	.2127064
#3	.0211882	.1662492	.4946288	.0101698	.1842923	.2130845

Elem	Li6707
Units	ppm
Avg	.0234403
Stddev	.0038070
%RSD	16.24128
#1	.0249655
#2	.0191071
#3	.0262481

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1795.573	18270.71	1796.863	1348.686	1986.540
Stddev	.698	78.82	4.610	9.372	3.525
%RSD	.0388921	.4314005	.2565421	.6949243	.1774511
#1	1795.794	18217.55	1801.919	1345.650	1990.611
#2	1796.134	18233.32	1792.895	1341.209	1984.467
#3	1794.791	18361.27	1795.774	1359.201	1984.544

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165842BL Acquired: 01/03/2025 14:42:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS842 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000233	.0018052	-.001554	.0028297	.0011312	.0004910	.0014370
Stddev	.003573	.0031227	.003681	.0035354	.0019287	.0579471	.0033688
%RSD	1533.017	172.9834	236.9634	124.9402	170.4951	11801.58	234.4268
#1	-.000337	.0048366	-.002344	.0002204	-.000858	.0652042	.0051068
#2	.003390	.0019806	-.004775	.0014154	.001259	-.017134	.0007195
#3	-.003753	-.001401	.002459	.0068534	.002993	-.046597	-.001515

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000141	-.000091	-.039974	.0000397	-.000294	-.010453	.0075571
Stddev	.000186	.000090	.042483	.0006122	.000125	.006160	.0229009
%RSD	131.8461	99.73673	106.2769	1542.871	42.72982	58.93712	303.0404
#1	-.000162	.000008	-.058733	-.000374	-.000406	-.015292	.0316859
#2	.000055	-.000110	-.069848	-.000249	-.000317	-.003518	.0048629
#3	-.000315	-.000170	.008660	.000743	-.000158	-.012548	-.013878

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001210	-.101945	-.000474	.0003734	-.021065	-.015183	-.000529
Stddev	.000257	.042165	.000445	.0014877	.015989	.008919	.000377
%RSD	21.21818	41.36051	93.85785	398.4557	75.90537	58.74704	71.39279
#1	-.000978	-.148679	-.000809	.0019878	-.012362	-.004920	-.000952
#2	-.001166	-.090399	.000031	.0000745	-.011315	-.021067	-.000405
#3	-.001486	-.066755	-.000643	-.000942	-.039517	-.019560	-.000228

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.055542	-.000334	-.004825	.0003279	-.010034	-.001045	-.001408
Stddev	.121390	.001993	.001617	.0007850	.003067	.001616	.001310
%RSD	218.5535	596.4740	33.50005	239.4177	30.56952	154.6965	93.05422
#1	-.190518	-.002554	-.005751	.0012104	-.009822	.000585	-.002857
#2	.044682	.000251	-.002959	.0000654	-.013202	-.001072	-.001056
#3	-.020791	.001301	-.005767	-.000292	-.007078	-.002647	-.000310

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165842BL Acquired: 01/03/2025 14:42:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS842 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.006271	-.000459	-.011129
Stddev	.001151	.000184	.000782
%RSD	18.36065	40.19094	7.027437
#1	-.004976	-.000338	-.010822
#2	-.006656	-.000367	-.012018
#3	-.007180	-.000671	-.010546

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1809.411	18249.29	1796.288	1346.852	2002.960
Stddev	3.255	55.42	2.422	5.935	3.161
%RSD	.1798976	.3036982	.1348187	.4406353	.1578004
#1	1807.196	18308.30	1796.636	1347.746	1999.372
#2	1813.148	18241.26	1793.711	1340.521	2005.333
#3	1807.889	18198.33	1798.517	1352.289	2004.176

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165842BS Acquired: 01/03/2025 14:46:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS842 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0237965	.0506290	.0154471	.0568301	.1098841	.4287086
Stddev	.0027720	.0024994	.0004895	.0039091	.0019794	.0292348
%RSD	11.64895	4.936725	3.169102	6.878509	1.801346	6.819276
#1	.0265614	.0489059	.0155500	.0552974	.1121423	.4569239
#2	.0238108	.0494856	.0149143	.0612733	.1084493	.3985511
#3	.0210174	.0534956	.0158770	.0539197	.1090608	.4306507

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4029420	.0106243	.0097929	10.08074	.0208323	.1005721
Stddev	.0042133	.0000995	.0000313	.02240	.0007882	.0005747
%RSD	1.045622	.9361708	.3198757	.2221711	3.783677	.5713830
#1	.4044926	.0105428	.0098248	10.09104	.0201288	.1012196
#2	.4061603	.0105950	.0097915	10.05505	.0206839	.1001229
#3	.3981732	.0107351	.0097622	10.09613	.0216841	.1003737

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0479720	.2103591	.0320524	10.54682	.0771465	.0206212
Stddev	.0043783	.0405185	.0007777	.07789	.0011704	.0002639
%RSD	9.126719	19.26159	2.426318	.7385542	1.517095	1.279974
#1	.0524842	.2545584	.0317569	10.61911	.0764512	.0205494
#2	.0476905	.2015475	.0314658	10.55701	.0784977	.0209136
#3	.0437413	.1749716	.0329346	10.46433	.0764905	.0204005

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.441684	.1034601	.1185432	9.315784	.0170125	F -.006795
Stddev	.033014	.0089084	.0005661	.062305	.0031549	.002461
%RSD	.4436415	8.610426	.4775360	.6688138	18.54485	36.21215
#1	7.468193	.0936570	.1187561	9.250574	.0173965	-.006642
#2	7.404704	.1110604	.1189720	9.322069	.0136832	-.004415
#3	7.452154	.1056629	.1179015	9.374708	.0199579	-.009329

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165842BS Acquired: 01/03/2025 14:46:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS842 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0200087	.1665303	F .4894943	.0107296	.1919835	.2117934
Stddev	.0006255	.0056927	.0035160	.0022548	.0005407	.0010647
%RSD	3.125877	3.418390	.7182857	21.01439	.2816383	.5027133
#1	.0193383	.1603060	.4874788	.0132908	.1919038	.2121535
#2	.0205766	.1678124	.4874498	.0090439	.1925596	.2126315
#3	.0201111	.1714726	.4935541	.0098541	.1914870	.2105954

Elem	Li6707
Units	ppm
Avg	.0210013
Stddev	.0021105
%RSD	10.04929
#1	.0198429
#2	.0234373
#3	.0197237

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1804.546	18176.38	1804.679	1345.159	1994.786
Stddev	3.796	97.08	4.094	12.115	5.104
%RSD	.2103662	.5341239	.2268715	.9006242	.2558651
#1	1800.240	18176.86	1799.954	1340.712	1988.960
#2	1805.989	18079.06	1807.159	1335.897	1996.929
#3	1807.409	18273.22	1806.926	1358.869	1998.469

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165891BL Acquired: 01/03/2025 14:50:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS891 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000536	.0020699	-.003585	-.001165	.0016177	-.018105	-.000602
Stddev	.006137	.0011934	.003978	.004714	.0023052	.011281	.003159
%RSD	1144.716	57.65423	110.9746	404.4869	142.4957	62.30971	525.0550
#1	-.007597	.0028455	-.003051	-.002892	.0040300	-.009855	-.002493
#2	.003513	.0006957	-.007803	.004168	-.000563	-.030960	-.002358
#3	.002475	.0026686	.000100	-.004772	.001386	-.013499	.003046

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000081	.0000062	-.004486	-.000397	-.000336	-.009006	.0136323
Stddev	.0000244	.0001255	.017875	.000524	.000376	.003080	.0699984
%RSD	301.3580	2026.183	398.4657	132.0779	111.8182	34.20124	513.4763
#1	-.000016	.0001067	.016073	.000206	-.000568	-.009037	-.065563
#2	.000033	.0000465	-.013185	-.000653	-.000537	-.012071	.067226
#3	.000008	-.000135	-.016346	-.000743	.000097	-.005911	.039233

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000339	-.135886	-.000920	.0024630	-.023330	-.009394	-.000992
Stddev	.000516	.018083	.000492	.0008764	.013913	.009910	.000597
%RSD	152.1270	13.30763	53.48869	35.58313	59.63544	105.4996	60.21493
#1	-.000788	-.154905	-.000462	.0014512	-.039190	.001202	-.001394
#2	-.000455	-.133841	-.001440	.0029858	-.013183	-.018435	-.000306
#3	.000225	-.118913	-.000859	.0029521	-.017617	-.010949	-.001277

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.032208	-.001909	-.006195	-.000606	-.013058	-.002625	-.001952
Stddev	.024195	.001886	.001688	.000579	.003939	.000406	.000276
%RSD	75.12109	98.78947	27.24267	95.68159	30.16406	15.48350	14.15571
#1	-.030007	-.002177	-.004413	-.000283	-.011409	-.002157	-.001748
#2	-.009188	-.003646	-.007770	-.000259	-.010211	-.002838	-.001843
#3	-.057428	.000097	-.006403	-.001274	-.017553	-.002881	-.002267

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165891BL Acquired: 01/03/2025 14:50:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS891 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.003580	-.000321	-.009057
Stddev	.001368	.000259	.003292
%RSD	38.19829	80.44694	36.34488
#1	-.002396	-.000054	-.009863
#2	-.003268	-.000570	-.011871
#3	-.005077	-.000341	-.005437

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1827.895	18378.26	1826.004	1360.712	2020.294
Stddev	5.515	102.86	10.238	11.599	6.676
%RSD	.3016951	.5597051	.5606696	.8524407	.3304614
#1	1833.879	18375.03	1821.946	1355.322	2027.926
#2	1823.017	18482.71	1818.416	1374.026	2017.417
#3	1826.790	18277.06	1837.648	1352.788	2015.538

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165891BS Acquired: 01/03/2025 14:55:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS891 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0217968	.0521962	.0171653	.0643853	.1090996	.4810220
Stddev	.0027764	.0045970	.0008753	.0033738	.0029520	.0246470
%RSD	12.73748	8.807072	5.099010	5.240044	2.705802	5.123878
#1	.0194809	.0561482	.0164502	.0608400	.1120732	.4758991
#2	.0210350	.0532891	.0181413	.0647595	.1061697	.4593391
#3	.0248745	.0471513	.0169042	.0675565	.1090559	.5078278

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4056127	.0106127	.0099370	10.19178	.0211504	.1017605
Stddev	.0045236	.0002179	.0001121	.03773	.0010574	.0005007
%RSD	1.115247	2.052783	1.128484	.3702060	4.999666	.4920087
#1	.4082450	.0103837	.0099571	10.16288	.0223499	.1023136
#2	.4082037	.0108174	.0098161	10.23446	.0207485	.1013383
#3	.4003894	.0106370	.0100377	10.17799	.0203528	.1016295

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0539389	.2254370	.0308347	10.46651	.0779761	.0207549
Stddev	.0014390	.0196557	.0006104	.07308	.0007993	.0013296
%RSD	2.667881	8.718953	1.979532	.6982168	1.025008	6.406118
#1	.0553358	.2329582	.0315393	10.43566	.0785592	.0207280
#2	.0540197	.2402215	.0304684	10.54995	.0770650	.0194390
#3	.0524611	.2031312	.0304963	10.41391	.0783041	.0220977

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.466350	.1029067	.1192018	9.318468	.0152462	F -.005852
Stddev	.051965	.0128057	.0002791	.087988	.0029826	.003342
%RSD	.6959914	12.44398	.2341260	.9442346	19.56297	57.10440
#1	7.517606	.1057345	.1188795	9.376249	.0162644	-.003045
#2	7.467740	.1140621	.1193646	9.361951	.0118878	-.009549
#3	7.413704	.0889234	.1193613	9.217204	.0175863	-.004963

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165891BS Acquired: 01/03/2025 14:55:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS891 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0188871	.1728443	F .4923688	.0126740	.1921867	.2146811
Stddev	.0004050	.0029839	.0023088	.0006635	.0014697	.0007784
%RSD	2.144053	1.726358	.4689218	5.235473	.7647479	.3625896
#1	.0188049	.1700066	.4947684	.0132029	.1926205	.2148621
#2	.0185296	.1759556	.4921749	.0119295	.1933907	.2153531
#3	.0193268	.1725707	.4901630	.0128897	.1905489	.2138281

Elem	Li6707
Units	ppm
Avg	.0263361
Stddev	.0040515
%RSD	15.38393
#1	.0296157
#2	.0275855
#3	.0218070

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1798.642	18240.78	1810.889	1352.826	1988.795
Stddev	4.797	80.34	10.682	2.502	5.177
%RSD	.2667122	.4404460	.5898697	.1849746	.2602888
#1	1799.837	18323.35	1802.133	1355.648	1988.561
#2	1802.730	18236.12	1807.744	1351.949	1994.085
#3	1793.361	18162.87	1822.790	1350.880	1983.739

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165566BL Acquired: 01/03/2025 14:58:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS566 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012127	-.001496	-.002769	.0018354	-.000562	-.005904	-.002035
Stddev	.0047711	.000977	.001812	.0095975	.002443	.012026	.004698
%RSD	393.4326	65.32018	65.43905	522.9159	434.7430	203.6904	230.8338
#1	.0064980	-.001769	-.001695	-.009166	-.000657	.007972	.002224
#2	-.002776	-.000411	-.004861	.006175	.001927	-.013298	-.007074
#3	-.000084	-.002308	-.001750	.008497	-.002955	-.012386	-.001256

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000080	.0000251	-.057207	-.000852	-.000307	-.006932	.0144998
Stddev	.000069	.0001197	.042188	.001059	.000374	.005170	.0164156
%RSD	86.14118	476.5296	73.74559	124.3511	121.8817	74.57913	113.2123
#1	-.000001	.0001340	-.008505	-.001740	-.000552	-.008117	.0149031
#2	-.000124	-.000103	-.080610	-.001135	.000123	-.001273	.0307100
#3	-.000114	.000044	-.082506	.000320	-.000491	-.011407	-.002114

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006858	-.089003	-.000406	.0002131	-.022642	-.011985	-.001417
Stddev	.0015162	.067447	.000497	.0001309	.016295	.001993	.000346
%RSD	221.0834	75.78033	122.2744	61.42869	71.96901	16.63152	24.40679
#1	-.000057	-.033954	-.000764	.0001386	-.019999	-.010237	-.001571
#2	.002430	-.068818	.000161	.0001364	-.040097	-.011562	-.001021
#3	-.000316	-.164238	-.000617	.0003642	-.007830	-.014156	-.001660

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1232903	-.005578	-.004545	.0000027	-.008983	-.002260	-.000188
Stddev	.2369928	.001432	.000953	.0007592	.003956	.000973	.000540
%RSD	192.2234	25.67635	20.96269	28533.68	44.03330	43.06615	287.4732
#1	.1865682	-.006313	-.005179	-.000620	-.008036	-.001311	.000424
#2	.3222212	-.006495	-.005007	-.000221	-.005587	-.003256	-.000599
#3	-.138919	-.003928	-.003449	.000849	-.013327	-.002213	-.000388

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165566BL Acquired: 01/03/2025 14:58:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS566 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.010910	-.000291	-.011884
Stddev	.001344	.000109	.003880
%RSD	12.32261	37.29597	32.64381
#1	-.012417	-.000170	-.007832
#2	-.009835	-.000379	-.015565
#3	-.010478	-.000325	-.012256

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1799.485	18318.42	1797.820	1348.353	1992.122
Stddev	1.171	63.28	11.227	3.072	1.270
%RSD	.0650599	.3454227	.6244785	.2278277	.0637371
#1	1798.134	18281.17	1790.687	1349.766	1993.214
#2	1800.117	18282.61	1792.013	1344.828	1992.424
#3	1800.203	18391.48	1810.761	1350.464	1990.729

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165566BS Acquired: 01/03/2025 15:03:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS566 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0220361	.0524066	.0191565	.0613230	.1109244	.3843472
Stddev	.0010193	.0014546	.0018927	.0049134	.0018515	.0326726
%RSD	4.625556	2.775657	9.880054	8.012348	1.669129	8.500812
#1	.0209007	.0529444	.0202381	.0564849	.1124949	.3700266
#2	.0228723	.0535158	.0169711	.0663085	.1088830	.4217348
#3	.0223353	.0507597	.0202604	.0611756	.1113953	.3612802

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4074995	.0103344	.0097342	10.11095	.0205814	.1019990
Stddev	.0013743	.0000837	.0000498	.05616	.0008609	.0006102
%RSD	.3372601	.8096730	.5112193	.5553993	4.183082	.5982324
#1	.4059268	.0103012	.0097872	10.04666	.0205816	.1021001
#2	.4081020	.0102724	.0097268	10.15045	.0197203	.1025523
#3	.4084697	.0104295	.0096885	10.13573	.0214422	.1013446

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0421970	.1964252	.0327523	10.62529	.0782159	.0214236
Stddev	.0116999	.0492310	.0015648	.05754	.0013231	.0015790
%RSD	27.72687	25.06348	4.777534	.5415684	1.691654	7.370155
#1	.0353557	.1553948	.0313132	10.57811	.0797045	.0197225
#2	.0557065	.2510149	.0325256	10.60837	.0777696	.0217060
#3	.0355288	.1828660	.0344180	10.68940	.0771736	.0228423

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.500608	.1029298	.1174156	9.387644	.0194780	F -.007448
Stddev	.045574	.0158669	.0006815	.325964	.0043490	.003008
%RSD	.6076055	15.41527	.5804588	3.472262	22.32773	40.39132
#1	7.463774	.1094827	.1166305	9.056167	.0215218	-.004417
#2	7.486475	.1144705	.1177606	9.707799	.0224285	-.010433
#3	7.551574	.0848360	.1178557	9.398967	.0144836	-.007494

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165566BS Acquired: 01/03/2025 15:03:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS566 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0194969	.1673178	F .4853568	.0120943	.1935985	.2122947
Stddev	.0003821	.0036629	.0064813	.0001341	.0038711	.0010706
%RSD	1.960029	2.189189	1.335364	1.108652	1.999546	.5042928
#1	.0197276	.1693823	.4811128	.0121017	.1902145	.2118051
#2	.0197072	.1630887	.4821404	.0122245	.1927613	.2115565
#3	.0190557	.1694826	.4928172	.0119566	.1978197	.2135226

Elem	Li6707
Units	ppm
Avg	.0227745
Stddev	.0021160
%RSD	9.290932
#1	.0251735
#2	.0211738
#3	.0219762

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1792.861	18286.97	1812.576	1347.364	1983.571
Stddev	2.396	98.58	8.717	7.575	2.402
%RSD	.1336240	.5390477	.4809418	.5621837	.1210932
#1	1794.237	18236.67	1819.546	1343.931	1984.617
#2	1794.251	18223.68	1815.381	1342.115	1985.272
#3	1790.095	18400.54	1802.802	1356.048	1980.823

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-01 Acquired: 01/03/2025 15:07:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM98 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1109477	-.008848	3.732858	.0505353	.0410913	41.76621
Stddev	.0073445	.001562	.004327	.0056102	.0008027	.26037
%RSD	6.619812	17.65446	.1159281	11.10161	1.953527	.6233930
#1	.1182920	-.008800	3.735666	.0562851	.0414385	42.06685
#2	.1109482	-.010433	3.735034	.0502449	.0401734	41.61454
#3	.1036030	-.007310	3.727875	.0450759	.0416620	41.61724

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.243064	.0057850	.0073122	234.4576	.1578546	.0937320
Stddev	.005768	.0001641	.0002127	.2577	.0009578	.0002093
%RSD	.4640206	2.836793	2.908239	.1099008	.6067328	.2232994
#1	1.243742	.0058561	.0075482	234.7034	.1577100	.0939720
#2	1.236987	.0055973	.0071355	234.1895	.1569773	.0936372
#3	1.248463	.0059016	.0072529	234.4798	.1588764	.0935870

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4343102	146.1707	4.641555	85.00012	.1837545	-.008473
Stddev	.0102578	.3856	.016982	.38786	.0007039	.001394
%RSD	2.361865	.2638194	.3658650	.4563026	.3830731	16.45027
#1	.4381937	146.5729	4.657700	85.44791	.1829768	-.008847
#2	.4420593	146.1351	4.623845	84.78336	.1843481	-.009643
#3	.4226777	145.8041	4.643120	84.76910	.1839385	-.006931

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6871475	.1606266	2.922471	6.808532	F 12.37505	-.250029
Stddev	.0144127	.0166390	.006961	.149442	.00934	.003547
%RSD	2.097472	10.35880	.2381998	2.194924	.0755124	1.418782
#1	.6746795	.1791112	2.928263	6.759847	12.38581	-.247797
#2	.6838348	.1559223	2.914748	6.689503	12.37035	-.248170
#3	.7029281	.1468462	2.924402	6.976245	12.36899	-.254119

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-01 Acquired: 01/03/2025 15:07:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM98 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0144993	4.930597	4.401578	.2871252	.8541772	.2282922
Stddev	.0007414	.002665	.005387	.0017451	.0090450	.0011156
%RSD	5.113615	.0540582	.1223793	.6077711	1.058918	.4886702
#1	.0137467	4.928526	4.398379	.2890160	.8642126	.2294109
#2	.0152291	4.929660	4.407797	.2867832	.8466533	.2282859
#3	.0145220	4.933604	4.398559	.2855765	.8516658	.2271798

Elem	Li6707
Units	ppm
Avg	.0637974
Stddev	.0032291
%RSD	5.061464
#1	.0600689
#2	.0656789
#3	.0656445

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1897.398	19314.13	1934.870	1417.301	1816.402
Stddev	2.323	91.12	6.285	10.371	2.357
%RSD	.1224108	.4717818	.3248426	.7317372	.1297595
#1	1899.843	19350.49	1932.151	1413.368	1818.913
#2	1897.128	19381.46	1942.057	1429.063	1814.238
#3	1895.222	19210.44	1930.402	1409.472	1816.055

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCV101 Acquired: 01/03/2025 15:10:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV101 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.022171	4.961384	25.33066	5.016289	5.028464	413.9742	10.34215
Stddev	.005517	.007068	.02636	.025778	.013616	2.1275	.02588
%RSD	.1098619	.1424649	.1040526	.5138825	.2707847	.5139202	.2502331
#1	5.018036	4.968131	25.31993	5.022181	5.013049	411.5376	10.31544
#2	5.028436	4.954033	25.31136	4.988075	5.038850	415.4638	10.34388
#3	5.020040	4.961988	25.36069	5.038611	5.033495	414.9211	10.36712

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5204287	2.541779	413.9136	15.94240	2.570226	15.58179	417.2798
Stddev	.0031065	.002342	.7783	.05183	.002500	.06889	1.9691
%RSD	.5969076	.0921552	.1880404	.3251369	.0972779	.4420931	.4718893
#1	.5222545	2.540089	413.2184	15.88340	2.573112	15.52312	415.0177
#2	.5221896	2.540796	413.7680	15.98065	2.568804	15.56462	418.6096
#3	.5168418	2.544453	414.7545	15.96313	2.568760	15.65764	418.2120

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.50975	415.6826	2.559184	1.276424	420.9336	2.612064	15.20990
Stddev	.08141	2.3592	.005529	.004837	3.7601	.013797	.03172
%RSD	.5248641	.5675511	.2160259	.3789379	.8932842	.5281852	.2085510
#1	15.41608	412.9805	2.553418	1.273719	425.2722	2.598270	15.22270
#2	15.54981	417.3330	2.559695	1.282008	418.6197	2.612058	15.17378
#3	15.56336	416.7344	2.564440	1.273545	418.9089	2.625864	15.23322

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	158.4596	5.088355	4.585228	4.993687	5.101755	5.135504	5.130561
Stddev	.0319	.004958	.025592	.010111	.007867	.030513	.007878
%RSD	.0201624	.0974400	.5581501	.2024658	.1541972	.5941610	.1535479
#1	158.4402	5.090151	4.581696	4.982388	5.101197	5.133358	5.122961
#2	158.4965	5.092164	4.612404	5.001880	5.094182	5.167033	5.130031
#3	158.4422	5.082749	4.561586	4.996794	5.109886	5.106120	5.138691

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCV101 Acquired: 01/03/2025 15:10:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV101 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	5.192689	4.953785	5.162527
Stddev	.038702	.021848	.017015
%RSD	.7453190	.4410420	.3295791
#1	5.148605	4.928708	5.158295
#2	5.221080	4.968713	5.148027
#3	5.208381	4.963934	5.181257

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1500.994	16275.87	1680.646	1113.446	1618.076
Stddev	4.218	72.43	5.746	3.944	4.687
%RSD	.2809837	.4449845	.3418882	.3542011	.2896538
#1	1503.832	16359.19	1682.058	1112.627	1620.529
#2	1503.003	16240.54	1674.326	1117.735	1621.027
#3	1496.148	16227.90	1685.555	1109.976	1612.672

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCB101 Acquired: 01/03/2025 15:14:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB101 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0099878	-.002772	-.002298	.0041717	.0032293	-.015428	-.000600
Stddev	.0026369	.002107	.002500	.0021576	.0029588	.016020	.000309
%RSD	26.40100	76.00109	108.7766	51.71996	91.62506	103.8360	51.55050
#1	.0105370	-.002607	.000147	.0028627	.0000717	-.017431	-.000876
#2	.0123069	-.004956	-.004849	.0029905	.0036781	.001499	-.000266
#3	.0071196	-.000753	-.002192	.0066620	.0059380	-.030352	-.000659

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000653	.0000246	-.020547	-.001139	.0001996	.0071096	-.004610
Stddev	.0001028	.0000067	.031042	.000597	.0004707	.0100794	.087326
%RSD	157.4205	27.12229	151.0742	52.40491	235.8743	141.7725	1894.134
#1	.0001486	.0000256	-.039780	-.000466	.0000267	-.003136	-.099366
#2	.0000968	.0000175	.015264	-.001347	.0007323	.017014	.012902
#3	-.000050	.0000307	-.037125	-.001603	-.000160	.007451	.072633

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009641	.0134226	-.000556	.0008828	.0120603	-.016955	-.000120
Stddev	.0017273	.0416086	.000254	.0009336	.0236885	.006283	.000091
%RSD	179.1674	309.9890	45.64949	105.7558	196.4184	37.05426	76.00088
#1	.0024627	-.025574	-.000723	.0019285	-.011624	-.016761	-.000022
#2	.0013547	.008616	-.000681	.0005869	.012051	-.023333	-.000135
#3	-.000925	.057226	-.000264	.0001330	.035754	-.010772	-.000203

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2203201	-.000468	.0125955	.0005405	-.006240	-.001635	.0016538
Stddev	.1319329	.002468	.0012351	.0009294	.005308	.001770	.0009309
%RSD	59.88240	526.8317	9.806091	171.9313	85.06386	108.2877	56.28646
#1	.3675185	-.002368	.0120150	.0004059	-.000320	-.000776	.0006741
#2	.1807176	.002321	.0140139	.0015299	-.007825	-.000458	.0025267
#3	.1127242	-.001359	.0117575	-.000314	-.010575	-.003671	.0017606

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCB101 Acquired: 01/03/2025 15:14:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB101 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.005271	-.000370	-.004153
Stddev	.002985	.000141	.008234
%RSD	56.62981	38.10325	198.2852
#1	-.006990	-.000278	-.007671
#2	-.006998	-.000300	.005256
#3	-.001824	-.000533	-.010043

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1829.423	18479.20	1809.721	1373.612	2022.411
Stddev	3.741	46.46	9.079	7.920	4.284
%RSD	.2044907	.2514168	.5016842	.5766179	.2118467
#1	1828.316	18481.15	1817.504	1373.030	2020.190
#2	1826.360	18431.80	1799.747	1365.998	2019.693
#3	1833.592	18524.66	1811.913	1381.807	2027.350

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-02 Acquired: 01/03/2025 15:18:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM99 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1277980	-.020468	3.217530	.0669079	.0504259	43.29390
Stddev	.0042409	.002152	.008940	.0046258	.0040722	.28426
%RSD	3.318408	10.51507	.2778448	6.913616	8.075624	.6565823
#1	.1255010	-.022242	3.224121	.0697664	.0543983	43.27106
#2	.1326918	-.021089	3.221114	.0693863	.0462608	43.58889
#3	.1252011	-.018074	3.207354	.0615711	.0506186	43.02175

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.249538	.0067927	.0067217	173.8269	.1541832	.1037355
Stddev	.006630	.0000394	.0000422	.6985	.0003502	.0012527
%RSD	.5306312	.5802576	.6282758	.4018188	.2271283	1.207548
#1	1.245284	.0068089	.0066863	173.0803	.1538009	.1044216
#2	1.246152	.0067477	.0067684	173.9358	.1544885	.1044952
#3	1.257177	.0068214	.0067105	174.4644	.1542601	.1022897

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4277663	165.9716	4.622710	54.88525	.1996046	-.010421
Stddev	.0099650	.5732	.010000	.36091	.0020278	.001191
%RSD	2.329537	.3453710	.2163189	.6575789	1.015883	11.42801
#1	.4385317	165.5599	4.618243	54.68880	.2002897	-.011617
#2	.4188650	166.6263	4.634164	55.30177	.2012010	-.010410
#3	.4259022	165.7287	4.615722	54.66518	.1973230	-.009235

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7176350	.1889471	2.566720	5.896804	F 11.74906	-.300088
Stddev	.0123082	.0094278	.009101	.194668	.03085	.004587
%RSD	1.715101	4.989645	.3545780	3.301252	.2625619	1.528519
#1	.7262747	.1917916	2.568702	6.107493	11.76337	-.298712
#2	.7230880	.1966251	2.556792	5.723611	11.77016	-.296346
#3	.7035424	.1784246	2.574667	5.859306	11.71366	-.305205

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-02 Acquired: 01/03/2025 15:18:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM99 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0133920	5.045535	4.674225	.2512143	.9418363	.1961223
Stddev	.0008316	.016174	.023186	.0017372	.0072065	.0016064
%RSD	6.209903	.3205512	.4960380	.6915365	.7651497	.8190876
#1	.0129580	5.035435	4.655078	.2502972	.9376559	.1945945
#2	.0143508	5.064189	4.667593	.2532179	.9501575	.1977972
#3	.0128671	5.036980	4.700004	.2501278	.9376954	.1959750

Elem	Li6707
Units	ppm
Avg	.0719468
Stddev	.0070023
%RSD	9.732544
#1	.0660268
#2	.0796762
#3	.0701375

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1951.000	19784.44	1971.266	1459.812	1877.244
Stddev	3.278	55.35	2.503	3.890	4.179
%RSD	.1680239	.2797589	.1269584	.2664764	.2225979
#1	1947.446	19731.72	1970.592	1455.386	1872.951
#2	1953.906	19779.51	1974.037	1462.687	1877.483
#3	1951.648	19842.08	1969.169	1461.364	1881.298

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-16 Acquired: 01/03/2025 15:22:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMM9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2186262	-.017687	2.741373	.1244521	.0594805	73.96075
Stddev	.0031810	.001911	.000553	.0100449	.0045311	.28396
%RSD	1.455010	10.80456	.0201659	8.071333	7.617798	.3839275
#1	.2213420	-.019891	2.741853	.1295199	.0643370	74.24741
#2	.2194101	-.016480	2.741497	.1309536	.0587379	73.67958
#3	.2151265	-.016691	2.740768	.1128828	.0553665	73.95527

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.596058	.0077351	.0083024	249.8388	.1623631	.1642136
Stddev	.003693	.0002140	.0002803	.6357	.0008760	.0012189
%RSD	.2313592	2.766926	3.376220	.2544464	.5395378	.7422875
#1	1.595434	.0079666	.0083452	250.4974	.1627240	.1635213
#2	1.592716	.0076942	.0080031	249.2288	.1613643	.1656210
#3	1.600022	.0075444	.0085588	249.7902	.1630011	.1634984

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5649014	247.1735	21.71324	34.80055	.2060889	-.013888
Stddev	.0053683	.7951	.05786	.13263	.0011898	.000589
%RSD	.9503054	.3216900	.2664670	.3811209	.5773141	4.243188
#1	.5598611	248.0910	21.77928	34.91096	.2074488	-.014015
#2	.5642965	246.7451	21.67149	34.65342	.2052398	-.014403
#3	.5705465	246.6845	21.68894	34.83725	.2055782	-.013245

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7458208	.2117989	1.610795	10.13980	F 13.75797	-.495518
Stddev	.0055354	.0153727	.008731	.08289	.04771	.013425
%RSD	.7421961	7.258152	.5420313	.8174261	.3467748	2.709266
#1	.7452230	.2044986	1.617270	10.21645	13.79554	-.498229
#2	.7406084	.2014367	1.600865	10.05184	13.77406	-.480944
#3	.7516308	.2294615	1.614249	10.15111	13.70429	-.507380

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-16 Acquired: 01/03/2025 15:22:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMM9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0148410	3.857958	4.275694	.1698437	.8932016	.1966950
Stddev	.0003777	.036457	.047668	.0024672	.0013024	.0008491
%RSD	2.545213	.9449702	1.114861	1.452602	.1458066	.4316615
#1	.0147426	3.887677	4.312259	.1726250	.8926966	.1969268
#2	.0145223	3.868918	4.221782	.1679193	.8922274	.1957541
#3	.0152582	3.817278	4.293042	.1689867	.8946808	.1974040

Elem	Li6707
Units	ppm
Avg	.0865996
Stddev	.0029557
%RSD	3.413061
#1	.0864018
#2	.0896493
#3	.0837478

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2240.212	22670.80	2271.389	1670.202	1859.723
Stddev	2.422	66.95	17.910	.678	1.347
%RSD	.1080968	.2953063	.7884989	.0405693	.0724056
#1	2240.942	22656.05	2255.223	1670.339	1858.293
#2	2242.184	22612.46	2290.642	1669.467	1860.966
#3	2237.509	22743.90	2268.302	1670.801	1859.909

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-03 Acquired: 01/03/2025 15:26:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1936050	-.022671	4.443515	.0772362	.0562441	54.98736
Stddev	.0049848	.002787	.006506	.0045078	.0020312	.25713
%RSD	2.574727	12.29232	.1464196	5.836408	3.611384	.4676252
#1	.1967144	-.019528	4.451017	.0736525	.0583247	55.25972
#2	.1962452	-.023645	4.440101	.0822973	.0561415	54.74879
#3	.1878554	-.024840	4.439426	.0757586	.0542662	54.95357

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.599917	.0078637	.0083697	186.5311	.1829584	.1095886
Stddev	.009751	.0001196	.0000893	.3870	.0011571	.0006015
%RSD	.6094377	1.520419	1.066578	.2074844	.6324310	.5488897
#1	1.590342	.0079754	.0083333	186.5937	.1832333	.1095696
#2	1.599574	.0078781	.0084714	186.1166	.1839533	.1101994
#3	1.609834	.0077376	.0083044	186.8830	.1816887	.1089968

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6050659	189.7123	6.445309	51.53213	.2166037	-.009483
Stddev	.0170385	.4627	.032803	.32158	.0013214	.001442
%RSD	2.815975	.2439205	.5089369	.6240421	.6100331	15.21100
#1	.5890214	190.1977	6.473376	51.75133	.2177074	-.009419
#2	.6229492	189.2761	6.409248	51.16295	.2151395	-.008073
#3	.6032270	189.6632	6.453302	51.68210	.2169643	-.010956

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9229348	.2040811	3.477506	6.174594	F 14.82853	-.352546
Stddev	.0185016	.0065218	.013820	.007248	.03491	.001719
%RSD	2.004649	3.195686	.3974191	.1173816	.2354103	.4875929
#1	.9277910	.2086502	3.487664	6.177758	14.86835	-.352721
#2	.9385239	.1966123	3.483087	6.179722	14.80323	-.354171
#3	.9024894	.2069809	3.461768	6.166302	14.81401	-.350746

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-03 Acquired: 01/03/2025 15:26:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0144904	4.046266	6.726216	.3998661	1.088960	.2735159
Stddev	.0005235	.023018	.039069	.0024797	.005674	.0014015
%RSD	3.612788	.5688669	.5808401	.6201429	.5210293	.5123916
#1	.0139821	4.070945	6.759038	.4015990	1.095357	.2750716
#2	.0144612	4.042474	6.736606	.4009738	1.086983	.2723520
#3	.0150279	4.025380	6.683002	.3970256	1.084538	.2731242

Elem	Li6707
Units	ppm
Avg	.0852440
Stddev	.0018950
%RSD	2.223009
#1	.0872045
#2	.0851053
#3	.0834222

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2002.415	20291.28	2019.935	1488.250	1893.982
Stddev	1.663	35.61	6.141	3.170	1.159
%RSD	.0830317	.1754849	.3040333	.2130016	.0612167
#1	2004.241	20280.89	2013.123	1485.702	1893.658
#2	2000.989	20262.03	2021.632	1487.248	1893.019
#3	2002.015	20330.93	2025.049	1491.800	1895.269

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-04 Acquired: 01/03/2025 15:30:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA0D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1820366	-.021613	4.208228	.0796914	.0539496	52.83409
Stddev	.0027870	.002484	.009704	.0071797	.0014882	.17890
%RSD	1.531001	11.49118	.2306016	9.009352	2.758442	.3386161
#1	.1851795	-.019421	4.219423	.0746133	.0540001	52.89566
#2	.1798660	-.024311	4.202209	.0879056	.0524368	52.63253
#3	.1810643	-.021107	4.203052	.0765553	.0554118	52.97408

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.557454	.0077123	.0082036	178.1910	.1755376	.1084836
Stddev	.004977	.0002949	.0001922	.2630	.0014619	.0003820
%RSD	.3195277	3.824209	2.342793	.1476182	.8327901	.3521403
#1	1.562067	.0074496	.0083546	178.4055	.1738882	.1088061
#2	1.552180	.0080314	.0082690	177.8976	.1766733	.1080617
#3	1.558115	.0076561	.0079873	178.2701	.1760512	.1085830

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5896917	186.3931	6.113031	44.89003	.2102080	-.010992
Stddev	.0014582	.6520	.021332	.39074	.0007484	.001376
%RSD	.2472778	.3498010	.3489602	.8704450	.3560487	12.51573
#1	.5885164	186.1975	6.114074	44.81978	.2102846	-.011629
#2	.5913235	185.8613	6.091197	44.53918	.2109152	-.009413
#3	.5892352	187.1205	6.133823	45.31113	.2094242	-.011934

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9755674	.2145572	3.334001	6.344714	F 14.34585	-.336918
Stddev	.0077535	.0116833	.007631	.217727	.02861	.002776
%RSD	.7947693	5.445316	.2288955	3.431625	.1994552	.8240761
#1	.9787320	.2275737	3.334127	6.593843	14.37365	-.334767
#2	.9667321	.2111196	3.326307	6.249404	14.31649	-.335935
#3	.9812381	.2049784	3.341569	6.190894	14.34741	-.340052

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-04 Acquired: 01/03/2025 15:30:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA0D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0158409	4.312583	6.424009	.3826187	1.063861	.2545024
Stddev	.0007989	.015728	.031404	.0023426	.004547	.0008185
%RSD	5.043605	.3647083	.4888466	.6122584	.4273699	.3216201
#1	.0167393	4.302725	6.388969	.3811809	1.069067	.2543673
#2	.0152100	4.304303	6.433449	.3853219	1.060674	.2537599
#3	.0155736	4.330722	6.449611	.3813535	1.061841	.2553801

Elem	Li6707
Units	ppm
Avg	.0844631
Stddev	.0022944
%RSD	2.716501
#1	.0818233
#2	.0859775
#3	.0855886

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1982.962	20222.61	2001.981	1482.855	1890.997
Stddev	3.428	151.65	8.876	8.900	4.893
%RSD	.1728589	.7499042	.4433508	.6002199	.2587588
#1	1981.647	20104.77	2003.938	1477.793	1888.974
#2	1986.853	20393.71	2009.715	1493.132	1896.577
#3	1980.388	20169.37	1992.290	1477.640	1887.439

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-03LX5 Acquired: 01/03/2025 15:33:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA0L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0394629	.0017079	.9422519	.0153466	.0098809	12.25184	.3700434
Stddev	.0028611	.0040356	.0066450	.0092256	.0022516	.08117	.0033179
%RSD	7.250133	236.2928	.7052287	60.11512	22.78774	.6624855	.8966225
#1	.0377957	.0031193	.9418547	.0054098	.0076720	12.25061	.3666945
#2	.0427666	.0048482	.9358143	.0169896	.0097976	12.17130	.3701064
#3	.0378265	-.002844	.9490865	.0236403	.0121730	12.33362	.3733294

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018524	.0016646	43.04821	.0418638	.0341488	.1386082	43.30098
Stddev	.0000931	.0001209	.13005	.0012254	.0003145	.0042840	.14472
%RSD	5.027518	7.264766	.3020956	2.927206	.9209010	3.090713	.3342093
#1	.0017548	.0017726	42.96300	.0409806	.0340007	.1393864	43.32962
#2	.0018621	.0015339	42.98374	.0432628	.0339358	.1339885	43.14409
#3	.0019403	.0016872	43.19790	.0413480	.0345100	.1424498	43.42924

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.476267	11.76021	.0419120	-.003189	.2192656	.0461645	.7908416
Stddev	.005018	.07528	.0002286	.001370	.0291401	.0028566	.0061417
%RSD	.3399336	.6401584	.5453252	42.96109	13.28985	6.187799	.7765984
#1	1.479557	11.68587	.0417469	-.001626	.2528349	.0444090	.7978219
#2	1.470491	11.75835	.0418162	-.004183	.2044744	.0446238	.7862669
#3	1.478754	11.83640	.0421728	-.003759	.2004877	.0494606	.7884359

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.511335	3.108347	-.082913	.0048207	.8368950	1.223505	.0735587
Stddev	.103448	.026158	.001896	.0007100	.0036940	.017281	.0017947
%RSD	6.844816	.8415428	2.286995	14.72769	.4413960	1.412428	2.439807
#1	1.465052	3.087289	-.081055	.0049526	.8329903	1.231093	.0715577
#2	1.629844	3.100122	-.082838	.0054555	.8373605	1.203728	.0740926
#3	1.439110	3.137629	-.084845	.0040541	.8403342	1.235693	.0750259

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-03LX5 Acquired: 01/03/2025 15:33:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA0L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2292968	.0612627	.0100854
Stddev	.0025121	.0002852	.0027716
%RSD	1.095585	.4654789	27.48152
#1	.2307763	.0612900	.0091801
#2	.2263962	.0609649	.0078796
#3	.2307178	.0615332	.0131965

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1847.046	18876.91	1843.604	1398.308	1953.455
Stddev	4.817	91.82	15.019	9.737	4.939
%RSD	.2607843	.4864275	.8146771	.6963345	.2528394
#1	1852.263	18842.80	1833.335	1390.001	1958.697
#2	1846.107	18807.02	1860.842	1395.900	1952.781
#3	1842.768	18980.91	1836.635	1409.023	1948.888

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-04 Acquired: 01/03/2025 15:37:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0611451	.0140703	.3826018	.0049526	.0147315	39.15405
Stddev	.0070858	.0039978	.0027145	.0080269	.0028808	.09170
%RSD	11.58848	28.41341	.7094715	162.0755	19.55512	.2342151
#1	.0634912	.0119601	.3853173	-.002836	.0151556	39.18467
#2	.0667603	.0115697	.3825997	.004495	.0173768	39.22653
#3	.0531838	.0186811	.3798884	.013198	.0116623	39.05095

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3938866	.0051445	.0030487	F 1866.261	.0593834	.1247332
Stddev	.0033436	.0000621	.0001817	11.033	.0008945	.0010323
%RSD	.8488693	1.207766	5.959096	.5911761	1.506320	.8275992
#1	.3944977	.0051319	.0030906	1866.183	.0603996	.1235879
#2	.3968824	.0052119	.0028498	1877.333	.0590359	.1250201
#3	.3902795	.0050896	.0032059	1855.267	.0587149	.1255918

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2148242	125.7643	7.621029	202.2940	.1423951	-.009010
Stddev	.0045688	.1786	.026648	.2318	.0016437	.000512
%RSD	2.126780	.1420114	.3496625	.1145909	1.154302	5.684921
#1	.2178003	125.6105	7.607441	202.0591	.1441325	-.009036
#2	.2171087	125.9602	7.651732	202.5226	.1408648	-.009508
#3	.2095637	125.7221	7.603914	202.3003	.1421881	-.008485

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.687741	.0637144	.6446990	14.72461	3.573379	-.145532
Stddev	.014509	.0120280	.0040940	.05908	.012244	.001041
%RSD	.8596653	18.87791	.6350243	.4012121	.3426507	.7153951
#1	1.685012	.0510587	.6403193	14.78628	3.584384	-.146279
#2	1.674790	.0650879	.6453480	14.71903	3.560190	-.145975
#3	1.703420	.0749967	.6484297	14.66852	3.575564	-.144343

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-04 Acquired: 01/03/2025 15:37:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007175	2.905342	4.377236	.0222720	.0634765	1.741473
Stddev	.0015399	.014261	.028951	.0046510	.0040995	.005960
%RSD	214.6057	.4908625	.6614012	20.88272	6.458297	.3422247
#1	.0018496	2.912395	4.354480	.0245861	.0678930	1.739395
#2	-.001036	2.888928	4.409822	.0253120	.0627435	1.748193
#3	.001339	2.914701	4.367407	.0169179	.0597929	1.736830

Elem	Li6707
Units	ppm
Avg	.1132167
Stddev	.0026588
%RSD	2.348424
#1	.1143549
#2	.1151169
#3	.1101783

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1820.479	18488.56	1910.163	1345.706	1567.958
Stddev	3.864	65.40	11.473	3.209	4.488
%RSD	.2122286	.3537136	.6006250	.2384913	.2862199
#1	1824.857	18562.22	1920.127	1346.496	1571.762
#2	1819.038	18466.10	1897.620	1348.446	1569.103
#3	1817.544	18437.35	1912.741	1342.175	1563.008

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-05 Acquired: 01/03/2025 15:41:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0591848	.0146018	.3842258	.0077389	.0176842	39.27771
Stddev	.0060768	.0049466	.0028517	.0036529	.0003184	.03475
%RSD	10.26755	33.87645	.7421967	47.20169	1.800718	.0884710
#1	.0538801	.0143224	.3838469	.0106820	.0177577	39.29185
#2	.0578592	.0196822	.3815824	.0088839	.0173354	39.30315
#3	.0658149	.0098009	.3872480	.0036506	.0179595	39.23811

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3836615	.0049565	.0030348	F 1842.094	.0587563	.1238033
Stddev	.0025438	.0001195	.0001256	9.250	.0010386	.0003275
%RSD	.6630216	2.411137	4.140450	.5021431	1.767706	.2645682
#1	.3864717	.0050519	.0031669	1832.781	.0599204	.1234580
#2	.3829965	.0048225	.0029168	1842.224	.0584241	.1241096
#3	.3815162	.0049952	.0030206	1851.279	.0579244	.1238423

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2083538	124.9154	7.571320	201.4331	.1431276	-.007963
Stddev	.0065314	.2682	.022694	.5067	.0012973	.000875
%RSD	3.134754	.2146803	.2997321	.2515490	.9064070	10.98174
#1	.2020026	124.6063	7.545390	200.8483	.1445736	-.006981
#2	.2080071	125.0538	7.581010	201.7088	.1427434	-.008657
#3	.2150516	125.0862	7.587561	201.7421	.1420657	-.008252

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.683083	.0783392	.6449996	14.47119	3.544705	-.146155
Stddev	.031769	.0030319	.0026805	.22784	.005291	.002177
%RSD	1.887555	3.870257	.4155798	1.574421	.1492577	1.489785
#1	1.648488	.0816027	.6463724	14.71086	3.539797	-.148022
#2	1.689815	.0756099	.6419108	14.44530	3.544007	-.143763
#3	1.710948	.0778049	.6467157	14.25740	3.550310	-.146680

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-05 Acquired: 01/03/2025 15:41:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000079	2.886770	5.668521	.0173543	.0713769	1.732973
Stddev	.001008	.016963	.024286	.0015448	.0056357	.000806
%RSD	1278.375	.5876034	.4284324	8.901451	7.895745	.0464885
#1	-.000755	2.887547	5.652356	.0164423	.0692809	1.733625
#2	-.000562	2.869432	5.696448	.0164827	.0777604	1.733221
#3	.001080	2.903330	5.656758	.0191379	.0670896	1.732072

Elem	Li6707
Units	ppm
Avg	.1140021
Stddev	.0034842
%RSD	3.056305
#1	.1180233
#2	.1118788
#3	.1121042

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1822.561	18506.52	1904.686	1348.626	1567.223
Stddev	4.480	126.77	4.650	11.360	4.255
%RSD	.2458055	.6850046	.2441091	.8423085	.2715053
#1	1817.558	18385.81	1899.753	1336.613	1562.310
#2	1823.927	18638.59	1905.320	1359.194	1569.730
#3	1826.200	18495.15	1908.987	1350.070	1569.629

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-04DLX5 Acquired: 01/03/2025 15:45:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0079341	.0305671	.0887853	-.023565	.0009902	8.905927	.0864868
Stddev	.0011798	.0073608	.0020159	.003764	.0026865	.057571	.0001134
%RSD	14.86999	24.08087	2.270593	15.97168	271.3065	.6464403	.1310630
#1	.0084384	.0239874	.0903015	-.024827	.0019264	8.969658	.0864887
#2	.0065860	.0291973	.0895569	-.026535	-.002039	8.857684	.0865992
#3	.0087779	.0385166	.0864976	-.019332	.003083	8.890439	.0863725

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010137	.0005324	423.1190	.0145418	.0510374	.0603488	28.55058
Stddev	.0001101	.0000706	.5549	.0010593	.0012602	.0057456	.08631
%RSD	10.86300	13.25623	.1311486	7.284893	2.469091	9.520609	.3023183
#1	.0008957	.0006136	423.1175	.0156402	.0504432	.0539116	28.64613
#2	.0010317	.0004855	422.5649	.0135264	.0524848	.0621771	28.52734
#3	.0011137	.0004982	423.6747	.0144587	.0501841	.0649578	28.47827

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.755672	46.42834	.0289466	-.000277	.3957783	.0188653	.1511915
Stddev	.004744	.09135	.0022505	.000202	.0068324	.0063060	.0007864
%RSD	.2702104	.1967595	7.774698	72.86741	1.726311	33.42643	.5201449
#1	1.759979	46.32519	.0270624	-.000163	.4011168	.0182570	.1520865
#2	1.750587	46.49902	.0314386	-.000158	.3880785	.0128854	.1506113
#3	1.756450	46.46082	.0283387	-.000510	.3981396	.0254533	.1508766

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.939773	.6728914	-.038894	.0052286	.5403017	1.004061	-.003038
Stddev	.113840	.0004479	.000869	.0015437	.0045904	.007304	.001138
%RSD	3.872414	.0665593	2.234718	29.52450	.8495971	.7274782	37.45995
#1	2.957780	.6731384	-.039164	.0047453	.5354637	1.006058	-.001822
#2	2.818002	.6731615	-.039595	.0039843	.5445960	.995965	-.003214
#3	3.043536	.6723745	-.037921	.0069561	.5408454	1.010158	-.004077

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-04DLX5 Acquired: 01/03/2025 15:45:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0106523	.3858732	.0276301
Stddev	.0066601	.0017123	.0020147
%RSD	62.52247	.4437567	7.291728
#1	.0183415	.3864006	.0258431
#2	.0066881	.3839592	.0272336
#3	.0069274	.3872597	.0298135

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1774.580	17927.10	1803.113	1315.886	1804.856
Stddev	1.504	30.89	6.085	6.470	1.328
%RSD	.0847573	.1723291	.3374756	.4916514	.0735577
#1	1773.907	17908.38	1798.994	1314.009	1805.955
#2	1776.303	17910.17	1810.103	1310.563	1805.233
#3	1773.530	17962.76	1800.243	1323.087	1803.381

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-06 Acquired: 01/03/2025 15:49:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1469153	.1059430	.4349915	.1711169	.1813410	42.50210
Stddev	.0092811	.0045152	.0031262	.0096046	.0051205	.14036
%RSD	6.317280	4.261926	.7186891	5.612910	2.823715	.3302462
#1	.1471145	.1009287	.4380545	.1651769	.1839755	42.56318
#2	.1375363	.1072135	.4351145	.1821978	.1754396	42.34155
#3	.1560952	.1096869	.4318056	.1659761	.1846079	42.60158

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.062851	.0986252	.1081532	F 1869.228	.4424571	1.178026
Stddev	.020210	.0007352	.0002551	12.185	.0006174	.000790
%RSD	.4974403	.7454694	.2358571	.6518666	.1395429	.0670803
#1	4.085106	.0994144	.1082214	1881.834	.4421626	1.178427
#2	4.045642	.0979596	.1078710	1857.513	.4420420	1.177116
#3	4.057806	.0985015	.1083673	1868.339	.4431666	1.178536

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6303173	127.1774	8.545198	201.7646	1.212719	.0629805
Stddev	.0025633	.2899	.011013	.2757	.000779	.0013215
%RSD	.4066666	.2279810	.1288838	.1366539	.0642424	2.098249
#1	.6326102	127.4020	8.556434	201.5772	1.212667	.0643564
#2	.6307918	126.8501	8.534422	201.6354	1.211967	.0628638
#3	.6275499	127.2803	8.544736	202.0812	1.213522	.0617212

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.696052	1.022876	1.506095	14.72341	3.572654	-.160329
Stddev	.029316	.006983	.005871	.12657	.011998	.001147
%RSD	1.728476	.6826765	.3898314	.8596271	.3358408	.7152387
#1	1.717361	1.028802	1.512743	14.80048	3.578195	-.161172
#2	1.662619	1.024648	1.501621	14.57733	3.580881	-.160792
#3	1.708175	1.015178	1.503922	14.79241	3.558886	-.159023

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-06 Acquired: 01/03/2025 15:49:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005311	2.935098	4.438052	.0181998	.0614293	1.743752
Stddev	.0002969	.003188	.026572	.0020211	.0019741	.002052
%RSD	55.89337	.1086113	.5987211	11.10493	3.213626	.1176669
#1	.0008107	2.932211	4.461795	.0163348	.0611986	1.745866
#2	.0002195	2.934563	4.409351	.0203472	.0635086	1.741768
#3	.0005632	2.938519	4.443011	.0179174	.0595807	1.743623

Elem	Li6707
Units	ppm
Avg	.1130123
Stddev	.0028834
%RSD	2.551428
#1	.1132525
#2	.1157682
#3	.1100163

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1806.534	18478.88	1906.413	1351.280	1557.116
Stddev	5.255	17.09	9.001	4.546	3.380
%RSD	.2909101	.0924763	.4721631	.3364282	.2170851
#1	1812.589	18494.97	1901.445	1352.830	1560.675
#2	1803.155	18480.72	1916.803	1354.848	1556.725
#3	1803.859	18460.94	1900.989	1346.161	1553.948

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5128-19 Acquired: 01/03/2025 15:53:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2472903	-.017124	5.488169	.1017227	.0477177	66.71898
Stddev	.0082275	.003899	.004056	.0032759	.0009113	.27291
%RSD	3.327064	22.77114	.0739080	3.220459	1.909711	.4090375
#1	.2532575	-.013661	5.492677	.1020391	.0485644	67.01777
#2	.2507089	-.021347	5.484816	.1048290	.0478353	66.65630
#3	.2379047	-.016363	5.487013	.0983001	.0467533	66.48287

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.173136	.0074753	.0163277	121.4255	.1771696	.1446654
Stddev	.003170	.0001124	.0001750	.1324	.0004847	.0010120
%RSD	.1458591	1.504055	1.071920	.1090027	.2735806	.6995612
#1	2.176408	.0073986	.0161744	121.4561	.1775049	.1447253
#2	2.172920	.0076043	.0162903	121.5399	.1773900	.1436248
#3	2.170079	.0074228	.0165184	121.2805	.1766138	.1456461

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8078334	195.4838	16.87644	33.40236	.2401380	-.005694
Stddev	.0089076	.8066	.08511	.11191	.0009000	.001493
%RSD	1.102654	.4126092	.5043087	.3350289	.3747683	26.22169
#1	.7982850	196.2268	16.96659	33.52720	.2394812	-.007333
#2	.8159191	195.5986	16.86526	33.36885	.2397689	-.005337
#3	.8092962	194.6260	16.79748	33.31104	.2411638	-.004412

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.178686	.1970572	3.494731	9.151259	F 12.48010	-.380542
Stddev	.024674	.0120447	.009451	.270196	.01881	.001191
%RSD	2.093351	6.112263	.2704243	2.952552	.1506881	.3129494
#1	1.177515	.1863546	3.487425	9.024725	12.46353	-.381869
#2	1.203925	.2101004	3.505404	8.967550	12.47622	-.379567
#3	1.154619	.1947168	3.491365	9.461503	12.50054	-.380190

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5128-19 Acquired: 01/03/2025 15:53:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0159624	3.297823	5.531695	.2374082	.7399921	.0614590
Stddev	.0004181	.003530	.023329	.0022109	.0032133	.0000630
%RSD	2.619270	.1070471	.4217244	.9312475	.4342318	.1025648
#1	.0159661	3.296771	5.558075	.2366697	.7368104	.0614001
#2	.0155425	3.301759	5.523227	.2398937	.7399296	.0615255
#3	.0163787	3.294938	5.513784	.2356611	.7432361	.0614515

Elem	Li6707
Units	ppm
Avg	.0885500
Stddev	.0010625
%RSD	1.199865
#1	.0893390
#2	.0889692
#3	.0873419

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2176.721	22168.35	2181.958	1631.543	1920.412
Stddev	7.100	57.80	2.606	5.743	6.123
%RSD	.3261650	.2607405	.1194552	.3520101	.3188619
#1	2178.794	22233.08	2179.072	1635.458	1924.536
#2	2182.554	22150.11	2182.664	1624.950	1923.325
#3	2168.816	22121.88	2184.140	1634.221	1913.376

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5128-20 Acquired: 01/03/2025 15:57:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK9D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2367505	-.014062	5.443698	.0979040	.0429648	64.73329
Stddev	.0047270	.003799	.008099	.0053475	.0021133	.25354
%RSD	1.996609	27.01468	.1487824	5.461929	4.918661	.3916727
#1	.2343958	-.017970	5.434557	.1031538	.0444822	65.02275
#2	.2421924	-.013832	5.446556	.0980943	.0405511	64.62653
#3	.2336634	-.010383	5.449980	.0924640	.0438612	64.55058

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.172252	.0074684	.0162333	120.2928	.1742015	.1451009
Stddev	.013942	.0002523	.0002073	.4379	.0004684	.0001826
%RSD	.6418399	3.378739	1.277072	.3640201	.2688792	.1258704
#1	2.181975	.0071772	.0163912	120.7004	.1736607	.1450019
#2	2.178504	.0076247	.0159985	120.3481	.1744616	.1453116
#3	2.156279	.0076031	.0163102	119.8298	.1744820	.1449891

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7934752	191.1957	16.40964	32.75849	.2391489	-.008471
Stddev	.0044941	.8462	.07343	.06187	.0016767	.001207
%RSD	.5663854	.4425606	.4474682	.1888628	.7011098	14.24632
#1	.7981573	191.9287	16.48603	32.70443	.2390000	-.009632
#2	.7891962	191.3886	16.40330	32.82596	.2375516	-.007223
#3	.7930720	190.2697	16.33959	32.74509	.2408951	-.008556

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.172614	.1913846	3.394059	9.247728	F 12.45085	-.364208
Stddev	.017475	.0031549	.016062	.048620	.02043	.001100
%RSD	1.490250	1.648444	.4732325	.5257527	.1640991	.3019082
#1	1.177571	.1948658	3.406344	9.299694	12.44038	-.365470
#2	1.153197	.1887144	3.375883	9.203345	12.43777	-.363703
#3	1.187076	.1905737	3.399949	9.240144	12.47439	-.363452

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5128-20 Acquired: 01/03/2025 15:57:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK9D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0157707	3.256341	5.476824	.2358836	.7211262	.0591282
Stddev	.0003196	.010294	.020631	.0018060	.0073155	.0001432
%RSD	2.026593	.3161193	.3767007	.7656168	1.014451	.2421623
#1	.0155541	3.266945	5.500565	.2361293	.7293266	.0592215
#2	.0161377	3.255689	5.463243	.2339674	.7152708	.0591998
#3	.0156201	3.246388	5.466663	.2375541	.7187811	.0589634

Elem	Li6707
Units	ppm
Avg	.0867107
Stddev	.0011988
%RSD	1.382572
#1	.0876688
#2	.0870969
#3	.0853663

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2187.594	22433.13	2194.717	1647.267	1932.967
Stddev	3.616	51.75	7.994	9.482	1.903
%RSD	.1652790	.2306654	.3642424	.5755997	.0984516
#1	2184.062	22441.42	2187.192	1644.569	1932.866
#2	2187.432	22480.24	2203.109	1657.805	1934.919
#3	2191.288	22377.75	2193.850	1639.427	1931.117

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5128-19LX5 Acquired: 01/03/2025 16:01:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK9L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0504023	-.003155	1.123007	.0258224	.0084745	15.63615	.5207639
Stddev	.0012730	.001809	.001725	.0035343	.0006557	.04344	.0059483
%RSD	2.525708	57.33030	.1536371	13.68677	7.737744	.2778431	1.142231
#1	.0515538	-.003954	1.123312	.0258428	.0078755	15.68033	.5207128
#2	.0506178	-.004426	1.121150	.0222780	.0091751	15.63466	.5267377
#3	.0490353	-.001084	1.124559	.0293464	.0083728	15.59348	.5148413

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017372	.0033205	28.95109	.0420921	.0381913	.1796272	46.03556
Stddev	.0002558	.0001422	.06138	.0000644	.0006247	.0021684	.08953
%RSD	14.72453	4.282092	.2119996	.1530063	1.635579	1.207170	.1944728
#1	.0019622	.0032951	28.97816	.0420278	.0379454	.1812861	45.98079
#2	.0017903	.0031926	28.99428	.0421566	.0389015	.1771736	45.98702
#3	.0014590	.0034736	28.88083	.0420919	.0377270	.1804220	46.13888

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.003678	8.002015	.0467477	-.000820	.2564225	.0417797	.8256345
Stddev	.005429	.154433	.0009497	.000821	.0029478	.0031951	.0016725
%RSD	.1356103	1.929926	2.031575	100.1243	1.149578	7.647390	.2025725
#1	4.009865	7.987726	.0475537	-.001254	.2597531	.0437930	.8237348
#2	3.999710	7.855223	.0469886	.000127	.2541490	.0380957	.8268853
#3	4.001458	8.163096	.0457007	-.001332	.2553655	.0434503	.8262835

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.142220	2.534124	-.094306	.0045464	.6616743	1.328380	.0361690
Stddev	.045487	.002742	.002823	.0007158	.0025234	.005609	.0014913
%RSD	2.123349	.1082205	2.993217	15.74435	.3813604	.4222768	4.123090
#1	2.194691	2.532040	-.093607	.0048706	.6595933	1.333830	.0373360
#2	2.113949	2.533100	-.097412	.0037259	.6644810	1.328685	.0344889
#3	2.118021	2.537231	-.091898	.0050428	.6609486	1.322624	.0366820

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5128-19LX5 Acquired: 01/03/2025 16:01:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK9L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1661074	.0140542	.0224698
Stddev	.0038527	.0001527	.0047013
%RSD	2.319398	1.086644	20.92280
#1	.1648204	.0139219	.0217057
#2	.1630629	.0140193	.0275063
#3	.1704388	.0142213	.0181973

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1902.136	19313.40	1874.047	1419.332	1986.024
Stddev	2.676	12.82	8.376	3.330	3.560
%RSD	.1406684	.0663772	.4469503	.2345955	.1792625
#1	1905.226	19321.45	1866.946	1423.083	1989.761
#2	1900.607	19298.62	1871.910	1416.725	1985.639
#3	1900.577	19320.14	1883.284	1418.188	1982.672

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5128-21 Acquired: 01/03/2025 16:05:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK9S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3261639	.0636915	5.541806	.2450180	.1935100	68.67063
Stddev	.0054433	.0030288	.014501	.0093215	.0043207	.37026
%RSD	1.668894	4.755442	.2616692	3.804402	2.232826	.5391760
#1	.3321211	.0607611	5.529756	.2350975	.1885949	69.02139
#2	.3249210	.0635035	5.537762	.2535945	.1952254	68.70695
#3	.3214494	.0668099	5.557900	.2463620	.1967096	68.28355

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.596455	.0946527	.1159254	121.1195	.5391390	1.164615
Stddev	.002996	.0006523	.0003170	.1771	.0009371	.002572
%RSD	.0535291	.6891763	.2734843	.1462598	.1738235	.2208245
#1	5.592997	.0953303	.1155942	121.1233	.5391394	1.163085
#2	5.598254	.0945988	.1159558	121.2947	.5382016	1.163176
#3	5.598114	.0940290	.1162261	120.9404	.5400759	1.167584

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.192807	194.6725	17.48557	33.05175	1.278955	.0576091
Stddev	.012113	.6663	.05589	.10772	.002247	.0010013
%RSD	1.015503	.3422549	.3196313	.3259068	.1756805	1.738158
#1	1.206542	195.2946	17.52687	33.16519	1.278572	.0579434
#2	1.183651	194.7535	17.50786	33.03921	1.276924	.0564834
#3	1.188228	193.9694	17.42197	32.95086	1.281368	.0584005

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.177687	1.056343	4.261552	9.127311	F 12.41747	-.383087
Stddev	.016700	.004759	.025166	.173068	.01583	.004027
%RSD	1.418021	.4505471	.5905390	1.896157	.1275066	1.051121
#1	1.159831	1.050886	4.269823	9.081273	12.40488	-.384775
#2	1.192921	1.058506	4.233291	9.318742	12.41229	-.385994
#3	1.180310	1.059636	4.281542	8.981916	12.43525	-.378491

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5128-21 Acquired: 01/03/2025 16:05:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK9S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0154180	3.316520	5.540292	.2405534	.7262760	.0585817
Stddev	.0003331	.007241	.027591	.0025348	.0053925	.0001754
%RSD	2.160516	.2183194	.4980114	1.053716	.7424841	.2993881
#1	.0155248	3.308518	5.563966	.2433330	.7316623	.0583933
#2	.0150446	3.318424	5.546918	.2383698	.7262884	.0586116
#3	.0156847	3.322619	5.509990	.2399572	.7208774	.0587402

Elem	Li6707
Units	ppm
Avg	.0868785
Stddev	.0009473
%RSD	1.090392
#1	.0863871
#2	.0862779
#3	.0879706

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2181.757	22197.03	2184.852	1626.865	1925.577
Stddev	6.426	33.30	13.119	6.931	3.407
%RSD	.2945118	.1500345	.6004455	.4260203	.1769164
#1	2188.831	22177.01	2173.938	1623.150	1929.510
#2	2180.160	22235.47	2181.212	1634.861	1923.645
#3	2176.281	22178.59	2199.407	1622.583	1923.576

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5122-12 Acquired: 01/03/2025 16:08:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1485667	-.027705	5.335357	.0892314	.0603685	59.44894
Stddev	.0037745	.001595	.009914	.0051591	.0027345	.19845
%RSD	2.540586	5.758942	.1858242	5.781682	4.529639	.3338109
#1	.1499050	-.028545	5.324184	.0832844	.0606980	59.49481
#2	.1514897	-.028704	5.343103	.0919042	.0629232	59.62044
#3	.1443054	-.025865	5.338785	.0925057	.0574841	59.23158

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.945473	.0079462	.0076742	466.9157	.1738992	.1301745
Stddev	.008905	.0000595	.0001377	1.2001	.0001767	.0006341
%RSD	.4577095	.7488398	1.794426	.2570298	.1015912	.4870737
#1	1.936147	.0080072	.0076413	465.6301	.1737163	.1305192
#2	1.946384	.0079430	.0075558	467.1107	.1739123	.1305615
#3	1.953886	.0078883	.0078253	468.0064	.1740689	.1294428

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4277065	228.1354	7.254069	73.74364	.2477614	-.015913
Stddev	.0069523	.1440	.011614	.23754	.0015318	.000971
%RSD	1.625493	.0631130	.1601043	.3221173	.6182633	6.102622
#1	.4212481	228.1846	7.245052	73.79821	.2460266	-.016147
#2	.4350651	228.2483	7.267174	73.94915	.2483303	-.014847
#3	.4268063	227.9732	7.249980	73.48357	.2489274	-.016746

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.385169	.2451423	3.297468	10.68931	F 16.24211	-.395688
Stddev	.000625	.0094084	.012900	.18341	.03854	.003504
%RSD	.0451570	3.837946	.3912052	1.715781	.2372833	.8854388
#1	1.385690	.2442993	3.295130	10.48064	16.19882	-.396327
#2	1.384475	.2549439	3.285897	10.76235	16.27271	-.391909
#3	1.385342	.2361837	3.311377	10.82494	16.25478	-.398828

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5122-12 Acquired: 01/03/2025 16:08:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0108627	4.624033	4.844110	.2278688	1.203986	.9660812
Stddev	.0010959	.006000	.030263	.0013677	.007499	.0033731
%RSD	10.08865	.1297659	.6247447	.6001935	.6228249	.3491531
#1	.0114006	4.629620	4.855443	.2283144	1.197863	.9642996
#2	.0096018	4.617691	4.809816	.2289580	1.212350	.9699716
#3	.0115857	4.624788	4.867071	.2263339	1.201746	.9639725

Elem	Li6707
Units	ppm
Avg	.0988143
Stddev	.0015082
%RSD	1.526245
#1	.0974475
#2	.0985632
#3	.1004323

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1976.304	19999.02	2008.834	1459.129	1794.466
Stddev	4.062	107.24	10.565	5.562	6.303
%RSD	.2055537	.5362281	.5259174	.3811730	.3512462
#1	1980.885	20115.88	2012.656	1464.175	1801.739
#2	1974.890	19976.07	2016.956	1460.045	1790.577
#3	1973.138	19905.11	1996.890	1453.165	1791.084

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5122-13 Acquired: 01/03/2025 16:12:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC9D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1439594	-.024659	5.327616	.0862317	.0590039	59.05396
Stddev	.0031897	.003633	.007203	.0039377	.0043861	.39809
%RSD	2.215696	14.73245	.1352005	4.566396	7.433566	.6741111
#1	.1416143	-.023495	5.334236	.0888268	.0544236	59.34969
#2	.1426723	-.021750	5.319945	.0881675	.0631658	58.60133
#3	.1475915	-.028731	5.328667	.0817008	.0594225	59.21087

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.952015	.0080120	.0077606	465.1061	.1726980	.1296751
Stddev	.004945	.0002788	.0000933	1.9323	.0005854	.0001611
%RSD	.2533471	3.480117	1.201822	.4154580	.3389790	.1242478
#1	1.957724	.0077719	.0078681	467.2718	.1725997	.1295364
#2	1.949248	.0079463	.0077116	463.5582	.1721680	.1298518
#3	1.949072	.0083178	.0077020	464.4883	.1733264	.1296370

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4199382	227.1053	7.212302	73.11536	.2485275	-.016647
Stddev	.0081926	1.2616	.045077	.22136	.0016182	.001132
%RSD	1.950916	.5555209	.6250023	.3027533	.6511358	6.801390
#1	.4258145	228.4147	7.251396	73.24105	.2501408	-.016690
#2	.4105797	225.8976	7.162994	72.85977	.2469043	-.017757
#3	.4234205	227.0034	7.222516	73.24525	.2485375	-.015494

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.382610	.2445469	3.275500	10.68046	F 16.21208	-.404269
Stddev	.032003	.0049191	.010554	.18746	.00854	.003833
%RSD	2.314682	2.011529	.3222248	1.755204	.0526871	.9480771
#1	1.412485	.2496116	3.263787	10.83798	16.22192	-.403187
#2	1.386508	.2442414	3.278440	10.47312	16.20661	-.408527
#3	1.348836	.2397875	3.284272	10.73028	16.20771	-.401094

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5122-13 Acquired: 01/03/2025 16:12:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC9D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0113920	4.583510	4.960472	.2257363	1.199153	.9608268
Stddev	.0005995	.005143	.013282	.0028012	.003520	.0056157
%RSD	5.262628	.1122068	.2677487	1.240928	.2935051	.5844684
#1	.0112774	4.579619	4.963709	.2289679	1.195135	.9652994
#2	.0108580	4.589341	4.971836	.2239993	1.200636	.9545244
#3	.0120405	4.581570	4.945871	.2242418	1.201689	.9626566

Elem	Li6707
Units	ppm
Avg	.1038521
Stddev	.0034981
%RSD	3.368342
#1	.1075759
#2	.1033457
#3	.1006349

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1975.882	20025.37	2013.058	1470.545	1796.379
Stddev	5.418	73.44	2.716	8.429	4.315
%RSD	.2742304	.3667100	.1349403	.5732184	.2401987
#1	1969.925	20104.87	2014.148	1478.842	1792.494
#2	1977.203	19960.06	2009.966	1470.804	1801.023
#3	1980.517	20011.19	2015.059	1461.989	1795.621

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5122-12LX5 Acquired: 01/03/2025 16:16:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC9L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0254615	.0090893	1.069729	.0089212	.0124238	13.65067	.4330474
Stddev	.0039585	.0026454	.000979	.0030951	.0019861	.07413	.0032435
%RSD	15.54699	29.10414	.0915292	34.69327	15.98618	.5430703	.7490034
#1	.0251773	.0098039	1.068635	.0077082	.0126626	13.71805	.4353882
#2	.0295544	.0113040	1.070523	.0066164	.0142796	13.66271	.4293450
#3	.0216527	.0061601	1.070029	.0124391	.0103290	13.57125	.4344090

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018898	.0014105	104.6366	.0395740	.0448459	.0964694	51.38230
Stddev	.0002328	.0001499	.3182	.0002855	.0005782	.0128490	.26595
%RSD	12.31815	10.62365	.3041156	.7215027	1.289246	13.31919	.5175892
#1	.0016353	.0015672	104.8490	.0396655	.0441867	.0905782	51.56287
#2	.0020921	.0012686	104.7901	.0398026	.0452672	.0876224	51.50713
#3	.0019419	.0013958	104.2708	.0392540	.0450837	.1112076	51.07690

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.653604	16.71371	.0482016	-.003715	.2876228	.0468345	.7388179
Stddev	.005189	.15933	.0003584	.000217	.0079613	.0009258	.0012001
%RSD	.3138236	.9532924	.7436259	5.846204	2.767978	1.976690	.1624399
#1	1.655057	16.72789	.0485405	-.003856	.2960779	.0477705	.7387557
#2	1.657913	16.86548	.0478264	-.003465	.2802701	.0468136	.7400479
#3	1.647843	16.54777	.0482381	-.003824	.2865204	.0459193	.7376501

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.138939	3.144479	-.098219	.0065334	.8852194	1.119391	.0365952
Stddev	.124558	.008425	.001838	.0009513	.0038530	.007824	.0010146
%RSD	5.823345	.2679268	1.871267	14.56026	.4352621	.6989901	2.772424
#1	2.272760	3.148593	-.097424	.0057402	.8808744	1.128097	.0354560
#2	2.117675	3.150056	-.096913	.0075881	.8882203	1.112947	.0369280
#3	2.026382	3.134787	-.100321	.0062718	.8865635	1.117130	.0374015

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5122-12LX5 Acquired: 01/03/2025 16:16:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC9L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2621690	.2142539	.0184680
Stddev	.0038165	.0011213	.0044915
%RSD	1.455739	.5233459	24.32061
#1	.2609527	.2154886	.0173948
#2	.2664454	.2139741	.0146103
#3	.2591089	.2132990	.0233990

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1869.861	18849.80	1865.376	1395.658	1952.606
Stddev	2.354	82.88	.718	11.979	2.650
%RSD	.1259135	.4396846	.0384928	.8582935	.1356974
#1	1872.167	18926.78	1864.787	1404.833	1955.134
#2	1867.461	18762.07	1865.165	1382.106	1949.849
#3	1869.954	18860.56	1866.176	1400.035	1952.836

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5122-14 Acquired: 01/03/2025 16:20:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC9S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2257025	.0585696	5.288775	.2483200	.2242464	62.30712
Stddev	.0048077	.0046311	.011717	.0111964	.0049593	.51944
%RSD	2.130092	7.906982	.2215429	4.508869	2.211519	.8336692
#1	.2302941	.0626258	5.275590	.2515668	.2245356	62.14380
#2	.2261089	.0595594	5.292742	.2358590	.2191489	61.88896
#3	.2207045	.0535237	5.297994	.2575342	.2290547	62.88858

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.605947	.1006564	.1086739	462.1904	.5606071	1.152395
Stddev	.031783	.0013491	.0003229	2.6537	.0007658	.000739
%RSD	.5669528	1.340295	.2971138	.5741549	.1365988	.0641676
#1	5.597983	.1012740	.1086296	462.3058	.5600057	1.152179
#2	5.578903	.0991091	.1090166	459.4810	.5614691	1.153218
#3	5.640955	.1015862	.1083754	464.7846	.5603463	1.151788

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8474973	227.8062	8.122889	72.87613	1.285074	.0551353
Stddev	.0100668	1.4329	.064753	.66894	.000744	.0008896
%RSD	1.187826	.6289841	.7971618	.9179092	.0578673	1.613389
#1	.8365507	227.2379	8.101403	72.69017	1.285324	.0557559
#2	.8495837	226.7446	8.071611	72.31984	1.285661	.0555338
#3	.8563573	229.4360	8.195654	73.61836	1.284238	.0541161

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.369503	1.209007	4.055035	10.63685	F 15.92179	-.405598
Stddev	.019082	.021870	.020433	.05948	.02498	.010341
%RSD	1.393365	1.808920	.5038853	.5591477	.1568785	2.549488
#1	1.354862	1.184940	4.078585	10.57772	15.90022	-.409635
#2	1.362563	1.214417	4.044504	10.63614	15.94916	-.393848
#3	1.391084	1.227664	4.042016	10.69667	15.91601	-.413311

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5122-14 Acquired: 01/03/2025 16:20:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC9S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0114068	4.483749	4.840767	.2229679	1.196553	.9542190
Stddev	.0013781	.012354	.074993	.0022664	.012751	.0068577
%RSD	12.08100	.2755354	1.549205	1.016474	1.065659	.7186676
#1	.0105010	4.485930	4.866082	.2218526	1.197591	.9509693
#2	.0129927	4.494867	4.756392	.2255758	1.183314	.9495902
#3	.0107268	4.470449	4.899827	.2214753	1.208753	.9620974

Elem	Li6707
Units	ppm
Avg	.1001332
Stddev	.0023563
%RSD	2.353130
#1	.0975349
#2	.1021312
#3	.1007336

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1959.090	19961.72	2008.749	1464.287	1790.835
Stddev	6.913	122.24	23.696	4.741	8.445
%RSD	.3528837	.6123629	1.179631	.3237850	.4715583
#1	1967.071	20094.31	2013.612	1463.882	1800.186
#2	1954.929	19853.50	2029.636	1459.762	1783.765
#3	1955.272	19937.36	1982.999	1469.218	1788.553

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5124-19 Acquired: 01/03/2025 16:24:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM88 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1275737	-.015387	.8223771	.0465710	.0247583	50.96020	.6613770
Stddev	.0066180	.001350	.0029993	.0037280	.0009506	.35057	.0056403
%RSD	5.187610	8.772697	.3647138	8.004920	3.839696	.6879228	.8528166
#1	.1300717	-.013831	.8246086	.0427887	.0242562	50.67965	.6555387
#2	.1200702	-.016238	.8189676	.0466821	.0258547	51.35319	.6667960
#3	.1325791	-.016092	.8235552	.0502422	.0241639	50.84775	.6617963

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0076738	.0024068	77.70113	.0749920	.0774819	.1632869	112.0587
Stddev	.0000208	.0000940	.68671	.0010101	.0004818	.0017986	.7715
%RSD	.2716484	3.903749	.8837812	1.346958	.6218399	1.101501	.6884914
#1	.0076614	.0023041	76.96194	.0749711	.0772224	.1621596	111.2920
#2	.0076978	.0024280	78.31925	.0760124	.0771854	.1653612	112.8349
#3	.0076620	.0024884	77.82222	.0739925	.0780378	.1623401	112.0493

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.181316	23.37849	.1324190	-.008463	.8286789	.1471519	.5455679
Stddev	.012338	.16407	.0004485	.001461	.0177906	.0061398	.0011283
%RSD	.5656058	.7017835	.3386680	17.26138	2.146868	4.172453	.2068080
#1	2.176010	23.24174	.1319256	-.010133	.8267277	.1541393	.5442803
#2	2.195419	23.56041	.1328018	-.007419	.8119443	.1426190	.5460399
#3	2.172518	23.33332	.1325295	-.007838	.8473647	.1446975	.5463835

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.863531	4.553555	-.149872	.0136662	5.014756	4.447660	.0277837
Stddev	.109406	.018857	.002874	.0008871	.018732	.015279	.0007296
%RSD	2.831771	.4141210	1.917564	6.491130	.3735410	.3435228	2.625886
#1	3.981282	4.570277	-.152147	.0127255	5.031430	4.431157	.0269591
#2	3.765022	4.557271	-.146642	.0144876	5.018351	4.461312	.0283455
#3	3.844288	4.533116	-.150826	.0137855	4.994487	4.450512	.0280464

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5124-19 Acquired: 01/03/2025 16:24:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM88 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.366111	.3170817	.0561006
Stddev	.010435	.0021741	.0018118
%RSD	.7638308	.6856510	3.229518
#1	1.354317	.3156622	.0540421
#2	1.374144	.3195846	.0574530
#3	1.369871	.3159983	.0568066

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1957.744	19942.89	1938.454	1466.962	1964.332
Stddev	6.210	13.21	8.299	3.790	7.525
%RSD	.3172223	.0662154	.4281143	.2583744	.3830900
#1	1951.330	19958.13	1948.008	1468.781	1957.442
#2	1958.176	19934.68	1934.312	1469.499	1963.193
#3	1963.728	19935.88	1933.042	1462.605	1972.362

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5124-20 Acquired: 01/03/2025 16:27:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM88D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1294643	-.015113	.8156356	.0500239	.0256168	50.49896	.6675897
Stddev	.0019355	.002335	.0124927	.0052276	.0012635	.73421	.0048311
%RSD	1.494992	15.44843	1.531651	10.45017	4.932161	1.453916	.7236685
#1	.1276180	-.016343	.8265328	.0455545	.0249679	51.34600	.6731678
#2	.1292967	-.012420	.8183728	.0487449	.0248097	50.10633	.6648539
#3	.1314781	-.016575	.8020013	.0557723	.0270729	50.04454	.6647473

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0076381	.0024528	78.16085	.0757576	.0767553	.1618961	112.5700
Stddev	.0003175	.0001000	.70061	.0018856	.0011622	.0011338	1.2324
%RSD	4.156777	4.075888	.8963700	2.489008	1.514187	.7003419	1.094749
#1	.0079902	.0023925	78.91282	.0763021	.0775482	.1630720	113.9929
#2	.0075505	.0023977	78.04326	.0736596	.0772966	.1618065	111.8758
#3	.0073736	.0025682	77.52648	.0773110	.0754212	.1608097	111.8414

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.202150	23.64110	.1301621	-.009927	.8116349	.1396807	.5492754
Stddev	.032039	.44368	.0029825	.000505	.0138393	.0121331	.0016269
%RSD	1.454912	1.876735	2.291369	5.084720	1.705111	8.686304	.2961963
#1	2.239070	24.09437	.1323620	-.009361	.8271166	.1284229	.5484128
#2	2.185742	23.20767	.1313567	-.010089	.8004643	.1525317	.5482614
#3	2.181638	23.62125	.1267674	-.010331	.8073238	.1380874	.5511520

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.003605	4.509174	-.148982	.0139264	4.984778	3.947713	.0288375
Stddev	.131472	.081330	.005081	.0000738	.077614	.083801	.0018743
%RSD	3.283844	1.803647	3.410794	.5298682	1.557029	2.122772	6.499342
#1	3.934820	4.583172	-.154647	.0140115	5.053895	4.042337	.0308263
#2	4.155200	4.522253	-.147474	.0138812	4.999628	3.917934	.0285824
#3	3.920795	4.422098	-.144826	.0138864	4.900812	3.882869	.0271039

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5124-20 Acquired: 01/03/2025 16:27:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM88D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.360146	.3135446	.0558136
Stddev	.010150	.0038727	.0035130
%RSD	.7462295	1.235124	6.294219
#1	1.371463	.3178678	.0548686
#2	1.351848	.3123729	.0597024
#3	1.357126	.3103931	.0528697

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1973.088	19766.44	1933.998	1455.044	1983.437
Stddev	26.372	233.34	38.318	10.790	31.379
%RSD	1.336571	1.180510	1.981266	.7415798	1.582075
#1	1954.396	19744.45	1889.777	1456.640	1958.760
#2	1961.615	20010.00	1954.829	1464.948	1972.797
#3	2003.253	19544.86	1957.388	1443.545	2018.753

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5124-19LX5 Acquired: 01/03/2025 16:31:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM88L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0292041	-.000432	.1674061	.0095046	.0056101	11.05697	.1375619
Stddev	.0032306	.004864	.0017362	.0037844	.0027734	.12249	.0039061
%RSD	11.06205	1127.002	1.037151	39.81683	49.43527	1.107831	2.839517
#1	.0264938	-.000474	.1685946	.0126620	.0032148	10.99735	.1360742
#2	.0283395	.004453	.1682102	.0053096	.0086485	10.97570	.1346182
#3	.0327790	-.005274	.1654136	.0105422	.0049671	11.19786	.1419932

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016572	.0005363	16.63958	.0160110	.0203600	.0285810	24.07469
Stddev	.0000843	.0000397	.09664	.0004653	.0001417	.0128915	.15829
%RSD	5.089457	7.404420	.5807607	2.905891	.6959002	45.10511	.6575018
#1	.0015606	.0005640	16.57621	.0165375	.0204551	.0163874	23.97829
#2	.0017162	.0005542	16.59173	.0158404	.0204277	.0272834	23.98841
#3	.0016948	.0004908	16.75081	.0156552	.0201971	.0420723	24.25738

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4821863	4.979722	.0249516	-.002776	.1390406	.0163263	.1213551
Stddev	.0025796	.078329	.0009011	.000723	.0090159	.0095304	.0014622
%RSD	.5349768	1.572956	3.611174	26.06326	6.484385	58.37492	1.204863
#1	.4837040	4.933412	.0239297	-.003559	.1406474	.0077991	.1230237
#2	.4792078	4.935595	.0252933	-.002132	.1293293	.0266144	.1207439
#3	.4836470	5.070160	.0256318	-.002638	.1471451	.0145654	.1202978

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8586359	.9164689	-.037984	.0028610	1.029915	.8383818	-.004039
Stddev	.0989856	.0022138	.001748	.0009650	.004249	.0023266	.001001
%RSD	11.52823	.2415591	4.602846	33.73022	.4125963	.2775064	24.77737
#1	.8021867	.9180174	-.039035	.0032796	1.034790	.8401645	-.002892
#2	.8007894	.9139332	-.038951	.0017573	1.027955	.8357500	-.004734
#3	.9729317	.9174560	-.035965	.0035460	1.026999	.8392310	-.004491

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5124-19LX5 Acquired: 01/03/2025 16:31:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM88L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2844816	.0675971	.0034612
Stddev	.0042557	.0000958	.0062784
%RSD	1.495954	.1417229	181.3935
#1	.2879174	.0675465	.0050503
#2	.2858064	.0677076	.0087922
#3	.2797211	.0675372	-.003459

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1861.783	18810.28	1836.658	1391.592	2014.769
Stddev	4.236	29.99	12.717	7.283	2.361
%RSD	.2275387	.1594156	.6923797	.5233396	.1172065
#1	1857.569	18779.57	1828.016	1383.235	2012.219
#2	1866.041	18839.49	1851.260	1396.581	2016.880
#3	1861.738	18811.78	1830.698	1394.961	2015.207

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCV102 Acquired: 01/03/2025 16:35:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV102 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.994153	4.911105	25.20507	4.964343	4.986097	430.7424	10.64493
Stddev	.015535	.093244	.48023	.089871	.096156	29.5869	.73682
%RSD	.3110553	1.898640	1.905291	1.810329	1.928491	6.868824	6.921808
#1	4.999229	4.950185	25.44752	5.019164	5.032830	464.9049	11.49574
#2	4.976716	4.804680	24.65195	4.860625	4.875506	413.3797	10.22047
#3	5.006515	4.978450	25.51575	5.013240	5.049954	413.9425	10.21858

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5381285	2.528364	429.5984	15.71158	2.550076	16.12516	434.9805
Stddev	.0328731	.046362	28.9539	.15299	.046607	1.09553	30.9062
%RSD	6.108792	1.833658	6.739756	.9737164	1.827685	6.793927	7.105185
#1	.5760868	2.550262	463.0306	15.79728	2.573885	17.39007	470.6660
#2	.5190025	2.475109	413.0878	15.80252	2.496373	15.50659	417.4570
#3	.5192963	2.559720	412.6768	15.53496	2.579970	15.47882	416.8185

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.19783	432.5752	2.547521	1.261874	438.1283	2.715885	15.02010
Stddev	1.08440	28.6924	.049644	.011608	26.8781	.188219	.19676
%RSD	6.694751	6.632922	1.948722	.9199232	6.134748	6.930312	1.309948
#1	17.44999	465.7055	2.573033	1.272081	469.1052	2.933199	15.13316
#2	15.57177	416.2215	2.490308	1.264295	420.9811	2.609931	15.13423
#3	15.57173	415.7988	2.579222	1.249246	424.2985	2.604524	14.79291

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	161.9358	5.019769	4.736280	4.970384	5.050722	5.342269	5.103131
Stddev	10.5360	.086299	.293057	.094552	.084314	.327740	.109539
%RSD	6.506294	1.719192	6.187487	1.902310	1.669337	6.134852	2.146497
#1	174.0986	5.054062	5.074634	5.012042	5.085368	5.720707	5.158565
#2	156.0965	4.921594	4.562688	4.862156	4.954605	5.154445	4.976956
#3	155.6124	5.083651	4.571516	5.036954	5.112193	5.151655	5.173871

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCV102 Acquired: 01/03/2025 16:35:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV102 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	5.414866	5.144183	5.226932
Stddev	.373663	.348326	.350762
%RSD	6.900696	6.771265	6.710668
#1	5.846335	5.546362	5.631957
#2	5.198679	4.938594	5.024735
#3	5.199584	4.947593	5.024104

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1506.715	16474.80	1616.255	1128.850	1621.278
Stddev	24.996	140.64	96.004	13.856	27.439
%RSD	1.658975	.8536687	5.939911	1.227448	1.692414
#1	1494.275	16374.83	1505.431	1117.841	1606.200
#2	1535.490	16413.95	1673.995	1124.301	1652.950
#3	1490.380	16635.61	1669.337	1144.409	1604.685

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCB102 Acquired: 01/03/2025 16:39:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB102 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024687	-.000355	.0020604	.0031786	.0008036	.0141827	.0000363
Stddev	.0015213	.004616	.0024719	.0054018	.0005355	.0143146	.0016264
%RSD	61.62280	1298.892	119.9694	169.9414	66.64122	100.9299	4476.626
#1	.0010676	-.005537	.0034222	.0014712	.0009784	.0119995	.0008716
#2	.0022517	.001155	-.000793	-.001163	.0012300	.0294635	-.001838
#3	.0040869	.003316	.003552	.009228	.0002025	.0010851	.001075

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000126	.0000010	-.029284	.0004051	-.000255	-.018763	.0429332
Stddev	.000140	.0000889	.011066	.0003197	.000729	.001452	.0212716
%RSD	111.7055	9126.207	37.78787	78.90990	285.5325	7.740741	49.54574
#1	-.000234	-.000066	-.032232	.0006587	-.000903	-.018368	.0231462
#2	.000033	-.000033	-.017042	.0005105	-.000397	-.017548	.0402237
#3	-.000176	.000102	-.038576	.0000460	.000534	-.020371	.0654297

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015745	-.077752	-.001292	-.000370	.2095810	.0026332	.0005936
Stddev	.0018269	.023984	.000401	.000871	.0119367	.0048188	.0003542
%RSD	116.0304	30.84684	31.07783	235.3350	5.695490	182.9987	59.66920
#1	.0031990	-.102747	-.001135	-.001366	.2196774	-.002580	.0002411
#2	-.000403	-.075582	-.000992	.000253	.1964069	.003557	.0005902
#3	.001928	-.054927	-.001748	.000002	.2126587	.006924	.0009495

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3064272	-.002003	.0095845	.0003636	-.010377	-.001272	.0026869
Stddev	.1789997	.001695	.0023123	.0009715	.001188	.001031	.0006753
%RSD	58.41507	84.60926	24.12579	267.1656	11.44595	81.03350	25.13441
#1	.1026725	-.003843	.0080466	.0003316	-.010394	-.001081	.0034495
#2	.3782399	-.000505	.0084632	-.000591	-.009181	-.002384	.0021646
#3	.4383692	-.001662	.0122437	.001351	-.011556	-.000350	.0024465

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCB102 Acquired: 01/03/2025 16:39:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB102 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.007499	-.000012	.0106013
Stddev	.007713	.000328	.0070208
%RSD	102.8613	2747.379	66.22602
#1	-.011285	-.000361	.0085442
#2	-.012587	.000036	.0184209
#3	.001376	.000289	.0048388

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1813.330	18409.39	1819.596	1364.961	1994.697
Stddev	41.697	1264.05	155.159	91.485	51.958
%RSD	2.299498	6.866312	8.527138	6.702401	2.604812
#1	1834.502	17659.68	1802.017	1308.365	2021.608
#2	1840.195	17699.68	1982.797	1316.010	2027.679
#3	1765.295	19868.80	1673.975	1470.506	1934.803

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5124-21 Acquired: 01/03/2025 16:43:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM88S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2185707	.0704294	.8635321	.2111891	.1955820	53.12841	4.500260
Stddev	.0056135	.0033558	.0010989	.0042389	.0044918	.27330	.036971
%RSD	2.568269	4.764800	.1272546	2.007142	2.296607	.5144067	.8215336
#1	.2122322	.0681757	.8635655	.2109878	.1940179	53.22980	4.528663
#2	.2229141	.0688263	.8624168	.2155251	.2006467	52.81891	4.458457
#3	.2205659	.0742861	.8646138	.2070545	.1920814	53.33652	4.513658

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1051740	.1021329	76.60250	.4878536	1.096615	.6198705	112.1456
Stddev	.0015116	.0004896	.51844	.0012742	.002157	.0037712	.4266
%RSD	1.437242	.4793756	.6767865	.2611886	.1966969	.6083810	.3803977
#1	.1068491	.1015771	76.93455	.4883070	1.095383	.6241706	112.3551
#2	.1039116	.1025004	76.00510	.4888392	1.095357	.6183148	111.6547
#3	.1047613	.1023213	76.86785	.4864148	1.099106	.6171260	112.4269

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.172084	22.91252	1.175425	.0637476	.9265707	1.121172	1.426391
Stddev	.022059	.07258	.003571	.0010630	.0230778	.009492	.005251
%RSD	.6953968	.3167698	.3037949	1.667548	2.490663	.8465883	.3681224
#1	3.187280	22.97327	1.172249	.0648937	.9340230	1.132104	1.428343
#2	3.146783	22.83215	1.174736	.0627939	.9006876	1.116384	1.430387
#3	3.182189	22.93214	1.179291	.0635552	.9450015	1.115027	1.420444

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.750180	4.522912	-.151952	.0134826	5.158767	3.952560	.0309630
Stddev	.104739	.010953	.005724	.0003595	.009260	.044639	.0005978
%RSD	2.792909	.2421751	3.767062	2.666672	.1794991	1.129370	1.930658
#1	3.863102	4.513134	-.158522	.0132831	5.149007	4.000403	.0308933
#2	3.731226	4.520854	-.148045	.0138976	5.167429	3.912027	.0304032
#3	3.656212	4.534749	-.149288	.0132670	5.159866	3.945251	.0315927

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5124-21 Acquired: 01/03/2025 16:43:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM88S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.350472	.3090611	.0559445
Stddev	.005331	.0016385	.0048338
%RSD	.3947530	.5301689	8.640266
#1	1.354456	.3101569	.0552993
#2	1.344416	.3071774	.0514658
#3	1.352545	.3098488	.0610685

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1992.538	20245.67	1986.573	1493.725	1996.592
Stddev	6.850	29.16	17.727	6.567	8.481
%RSD	.3437672	.1440431	.8923609	.4396517	.4247937
#1	2000.433	20276.67	1967.949	1496.282	2006.355
#2	1989.011	20218.78	2003.242	1486.264	1992.375
#3	1988.172	20241.57	1988.528	1498.629	1991.045

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5121-10 Acquired: 01/03/2025 16:47:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM51 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2259108	-.021126	5.426590	.0795013	.0489107	68.78903
Stddev	.0025066	.004258	.006137	.0085311	.0040024	3.47458
%RSD	1.109536	20.15685	.1130861	10.73084	8.183135	5.051067
#1	.2272383	-.023393	5.419634	.0844635	.0526135	70.63570
#2	.2230197	-.023771	5.428896	.0843900	.0494543	70.95033
#3	.2274745	-.016214	5.431240	.0696505	.0446642	64.78104

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.560964	.0111385	.0207243	361.7533	.2023920	.1452458
Stddev	.138428	.0005419	.0003629	18.4266	.0075815	.0001388
%RSD	5.405309	4.864873	1.750973	5.093693	3.745969	.0955711
#1	2.634125	.0114421	.0204057	371.1732	.2056538	.1450870
#2	2.647459	.0114606	.0206479	373.5657	.1937255	.1453062
#3	2.401306	.0105129	.0211193	340.5210	.2077968	.1453442

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8307642	196.8731	8.343589	109.4870	.2265343	-.011602
Stddev	.0466531	9.7207	.418101	5.4411	.0015082	.001595
%RSD	5.615684	4.937532	5.011046	4.969588	.6657764	13.75137
#1	.8563091	201.7492	8.552571	112.4275	.2259647	-.010508
#2	.8590663	203.1906	8.615998	112.8251	.2282444	-.010865
#3	.7769174	185.6795	7.862198	103.2084	.2253939	-.013433

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.892301	.2016814	4.491024	9.180954	F 20.39511	-.335437
Stddev	.073965	.0141533	.199102	.511017	.05449	.011035
%RSD	3.908722	7.017638	4.433339	5.566056	.2671727	3.289863
#1	1.951056	.1978040	4.599195	9.415748	20.39080	-.345453
#2	1.916606	.2173693	4.261252	9.532377	20.34289	-.337251
#3	1.809242	.1898710	4.612626	8.594737	20.45162	-.323607

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5121-10 Acquired: 01/03/2025 16:47:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM51 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0133474	6.058144	2.322607	.3533493	.9767044	.6555342
Stddev	.0010780	.016588	.093992	.0023045	.0529309	.0337133
%RSD	8.076673	.2738147	4.046831	.6522017	5.419342	5.142876
#1	.0144082	6.058283	2.386391	.3514046	1.005890	.6741631
#2	.0133811	6.041487	2.366763	.3558947	1.008618	.6758223
#3	.0122529	6.074663	2.214668	.3527485	.915605	.6166172

Elem	Li6707
Units	ppm
Avg	.0936146
Stddev	.0057139
%RSD	6.103676
#1	.1000337
#2	.0917264
#3	.0890838

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2078.425	20789.62	2163.066	1527.736	1795.147
Stddev	3.091	627.36	94.034	56.255	5.438
%RSD	.1487406	3.017674	4.347246	3.682231	.3029298
#1	2081.992	20466.97	2112.482	1499.576	1800.924
#2	2076.513	21512.64	2105.151	1592.510	1794.388
#3	2076.771	20389.24	2271.564	1491.121	1790.128

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5121-11 Acquired: 01/03/2025 16:50:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM51D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2348535	-.027532	5.444673	.0916506	.0508692	72.17525
Stddev	.0038395	.006091	.008834	.0053357	.0019394	.17288
%RSD	1.634847	22.12502	.1622457	5.821797	3.812534	.2395234
#1	.2387876	-.026878	5.435671	.0923817	.0514456	71.97914
#2	.2346567	-.033924	5.453328	.0859870	.0487069	72.30559
#3	.2311162	-.021794	5.445019	.0965830	.0524550	72.24102

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.666435	.0116126	.0206615	374.8200	.1977010	.1479943
Stddev	.006441	.0003197	.0002318	.6304	.0006195	.0006555
%RSD	.2415595	2.753375	1.121748	.1681944	.3133568	.4429211
#1	2.667738	.0119789	.0204819	374.7554	.1980898	.1476366
#2	2.672124	.0113897	.0209232	375.4802	.1969866	.1487508
#3	2.659441	.0114692	.0205795	374.2243	.1980266	.1475955

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8570118	204.8576	8.656233	113.8747	.2250543	-.009392
Stddev	.0073863	.2356	.045174	.5592	.0007305	.002028
%RSD	.8618690	.1149970	.5218650	.4910408	.3245886	21.59083
#1	.8498805	204.8593	8.609308	113.2327	.2257465	-.011723
#2	.8646291	205.0923	8.699424	114.1363	.2242907	-.008422
#3	.8565259	204.6211	8.659967	114.2552	.2251257	-.008032

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.949608	.2007523	4.412034	9.881640	F 20.56079	-.329944
Stddev	.010652	.0017361	.017701	.099955	.01533	.002831
%RSD	.5463514	.8648057	.4011957	1.011526	.0745788	.8578815
#1	1.957952	.1987752	4.401408	9.781212	20.54313	-.331979
#2	1.937610	.2014543	4.402226	9.981116	20.57073	-.326711
#3	1.953261	.2020276	4.432468	9.882592	20.56852	-.331141

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5121-11 Acquired: 01/03/2025 16:50:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM51D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0135527	6.055050	3.336233	.3567708	1.044014	.6798026
Stddev	.0004085	.016435	.017679	.0030933	.001043	.0011959
%RSD	3.014404	.2714301	.5299069	.8670120	.0998843	.1759150
#1	.0131627	6.055238	3.356637	.3538358	1.042849	.6784255
#2	.0135178	6.038521	3.326580	.3600011	1.044861	.6805785
#3	.0139776	6.071390	3.325482	.3564756	1.044332	.6804040

Elem	Li6707
Units	ppm
Avg	.0952221
Stddev	.0051446
%RSD	5.402775
#1	.0911246
#2	.0935459
#3	.1009958

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2046.045	20832.04	2082.172	1527.670	1769.948
Stddev	3.661	81.37	10.763	4.056	2.093
%RSD	.1789476	.3906017	.5169042	.2654964	.1182789
#1	2050.256	20880.70	2076.801	1531.985	1772.279
#2	2043.618	20738.11	2075.152	1523.936	1768.229
#3	2044.261	20877.32	2094.563	1527.089	1769.335

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5121-10LX5 Acquired: 01/03/2025 16:54:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM51L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0429317	.0080274	1.094677	.0053422	.0104952	16.50043	.6121922
Stddev	.0039181	.0017833	.004241	.0038015	.0015848	.08619	.0019021
%RSD	9.126314	22.21502	.3874652	71.15877	15.10003	.5223780	.3107034
#1	.0447655	.0093926	1.099355	.0095208	.0121751	16.41079	.6101569
#2	.0384330	.0060098	1.093590	.0020885	.0090268	16.58271	.6139247
#3	.0455966	.0086800	1.091084	.0044174	.0102838	16.50779	.6124951

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027352	.0039581	86.84740	.0461915	.0473772	.1984238	47.61124
Stddev	.0000404	.0000537	.32438	.0000852	.0005122	.0047426	.33759
%RSD	1.476827	1.356183	.3735037	.1844578	1.081141	2.390123	.7090640
#1	.0027215	.0039446	86.49071	.0461191	.0468141	.1995412	47.25915
#2	.0027807	.0040172	87.12474	.0461701	.0478153	.2025079	47.64238
#3	.0027035	.0039124	86.92676	.0462854	.0475024	.1932223	47.93218

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.020921	26.79761	.0410738	-.001429	.4204053	.0379140	1.029678
Stddev	.002412	.06194	.0004177	.002777	.0141220	.0079678	.003858
%RSD	.1193494	.2311301	1.016908	194.3841	3.359142	21.01542	.3746606
#1	2.021425	26.77850	.0415194	.001564	.4366955	.0292934	1.029620
#2	2.023041	26.74749	.0406912	-.003924	.4116267	.0394405	1.033564
#3	2.018297	26.86685	.0410108	-.001926	.4128935	.0450081	1.025849

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.069104	4.029356	-.079701	.0077721	1.166596	.6660578	.0610774
Stddev	.083677	.012393	.001452	.0005815	.002063	.0023909	.0011357
%RSD	4.044102	.3075571	1.821968	7.481711	.1768079	.3589571	1.859457
#1	1.982401	4.035187	-.080571	.0083974	1.165174	.6650039	.0616147
#2	2.075525	4.015124	-.080508	.0076714	1.165651	.6643749	.0618448
#3	2.149385	4.037758	-.078025	.0072476	1.168961	.6687945	.0597728

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5121-10LX5 Acquired: 01/03/2025 16:54:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM51L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2236137	.1545820	.0165801
Stddev	.0041717	.0010430	.0050537
%RSD	1.865571	.6746879	30.48035
#1	.2213512	.1534620	.0171323
#2	.2210621	.1555254	.0213351
#3	.2284279	.1547585	.0112731

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1869.759	19068.71	1867.802	1398.797	1928.622
Stddev	5.601	34.54	2.774	7.350	4.001
%RSD	.2995378	.1811600	.1485072	.5254436	.2074570
#1	1863.951	19056.65	1870.274	1398.441	1927.307
#2	1870.198	19041.82	1864.802	1391.632	1925.445
#3	1875.127	19107.67	1868.329	1406.319	1933.115

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5121-12 Acquired: 01/03/2025 16:58:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM51S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2578024	.0189172	5.354648	.1522191	.1257476	70.58309
Stddev	.0021437	.0028056	.009280	.0181137	.0072897	6.20018
%RSD	.8315190	14.83120	.1732993	11.89978	5.797098	8.784223
#1	.2553297	.0217567	5.344149	.1365065	.1175707	63.79555
#2	.2589406	.0161467	5.358047	.1720313	.1281060	75.94896
#3	.2591369	.0188483	5.361750	.1481194	.1315662	72.00477

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.259229	.0543164	.0708877	358.6252	.3793165	.6551936
Stddev	.379669	.0037900	.0005017	31.6654	.0024109	.0002023
%RSD	8.914028	6.977614	.7077153	8.829652	.6356047	.0308806
#1	3.834140	.0501422	.0713703	323.4590	.3817521	.6553620
#2	4.564633	.0575420	.0703689	384.8800	.3769310	.6552497
#3	4.378915	.0552650	.0709238	367.5367	.3792663	.6549692

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.025192	196.7610	8.702977	108.8742	.7363027	.0205258
Stddev	.093952	17.0772	.728566	9.0501	.0007219	.0023568
%RSD	9.164285	8.679183	8.371460	8.312415	.0980391	11.48197
#1	.922202	178.0360	7.905839	98.9278	.7371297	.0181991
#2	1.106210	211.4774	9.334434	116.6233	.7357988	.0204669
#3	1.047164	200.7695	8.868659	111.0716	.7359797	.0229115

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.827490	.6367857	4.714001	9.210280	F 20.12442	-.315935
Stddev	.144595	.0603766	.015170	.862165	.02037	.018876
%RSD	7.912248	9.481467	.3218043	9.360900	.1012163	5.974676
#1	1.673066	.5744688	4.729126	8.242933	20.11731	-.295732
#2	1.959682	.6950142	4.698786	9.897690	20.10856	-.333121
#3	1.849721	.6408740	4.714090	9.490216	20.14739	-.318951

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5121-12 Acquired: 01/03/2025 16:58:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM51S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0133248	5.953559	3.509681	.3465365	1.012958	.6503074
Stddev	.0008074	.013117	.254990	.0028362	.083011	.0546780
%RSD	6.059625	.2203179	7.265333	.8184333	8.194931	8.408017
#1	.0141139	5.967480	3.234241	.3433679	.923515	.5897806
#2	.0125002	5.941431	3.737509	.3474040	1.087527	.6961290
#3	.0133604	5.951765	3.557294	.3488377	1.027833	.6650126

Elem	Li6707
Units	ppm
Avg	.0926336
Stddev	.0071518
%RSD	7.720518
#1	.0844094
#2	.0973937
#3	.0960977

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2079.907	21157.70	2166.495	1553.642	1804.296
Stddev	1.608	81.13	160.159	1.871	2.670
%RSD	.0773099	.3834409	7.392527	.1204253	.1479963
#1	2081.137	21098.03	2342.257	1551.524	1805.542
#2	2080.496	21125.00	2028.799	1554.335	1806.116
#3	2078.088	21250.07	2128.428	1555.068	1801.230

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5129-01 Acquired: 01/03/2025 17:02:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2067818	-.021723	2.477436	.1010640	.0402424	73.03287
Stddev	.0051210	.002532	.003628	.0060086	.0029168	.71139
%RSD	2.476519	11.65356	.1464595	5.945357	7.248179	.9740691
#1	.2126302	-.020260	2.473291	.0948105	.0385153	72.25438
#2	.2046132	-.020263	2.478986	.1067935	.0386019	73.64914
#3	.2031019	-.024646	2.480033	.1015881	.0436102	73.19509

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.556481	.0074468	.0077648	64.88475	.1459104	.1406207
Stddev	.000945	.0001527	.0000744	.27759	.0014224	.0008546
%RSD	.0606968	2.050525	.9586539	.4278246	.9748556	.6077089
#1	1.555858	.0076133	.0077823	64.56449	.1466135	.1402487
#2	1.556017	.0074140	.0076832	65.05628	.1442733	.1400152
#3	1.557568	.0073132	.0078289	65.03350	.1468443	.1415982

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4705045	182.1103	18.35639	20.19064	.2294052	-.007827
Stddev	.0113043	1.6705	.12090	.10995	.0011465	.000629
%RSD	2.402593	.9172867	.6586064	.5445372	.4997577	8.032207
#1	.4579571	180.2699	18.22026	20.06371	.2285846	-.007413
#2	.4798943	183.5305	18.45123	20.25194	.2307152	-.007518
#3	.4736620	182.5306	18.39768	20.25628	.2289159	-.008551

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4805770	.2024793	1.557745	10.58642	F 11.89032	-.353850
Stddev	.0182291	.0136667	.006306	.08214	.01837	.002526
%RSD	3.793177	6.749665	.4048120	.7759426	.1544900	.7137613
#1	.4728285	.2145417	1.551217	10.51326	11.88250	-.351076
#2	.5014004	.1876361	1.558215	10.67528	11.87716	-.356017
#3	.4675022	.2052601	1.563803	10.57072	11.91131	-.354458

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5129-01 Acquired: 01/03/2025 17:02:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0135518	3.554672	6.395010	.1798272	.7954750	.0830995
Stddev	.0006600	.012767	.027035	.0012540	.0033522	.0006050
%RSD	4.870202	.3591591	.4227522	.6973377	.4214082	.7280156
#1	.0129365	3.560429	6.364597	.1812446	.7931801	.0826737
#2	.0134699	3.540040	6.416313	.1788618	.7939229	.0837920
#3	.0142489	3.563546	6.404121	.1793753	.7993219	.0828327

Elem	Li6707
Units	ppm
Avg	.0875440
Stddev	.0020184
%RSD	2.305615
#1	.0855632
#2	.0874706
#3	.0895981

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2234.582	22591.17	2209.899	1668.696	1960.912
Stddev	3.312	6.23	12.903	7.264	1.471
%RSD	.1482286	.0275767	.5838827	.4352856	.0750028
#1	2233.484	22597.98	2224.764	1674.661	1960.033
#2	2238.304	22589.79	2201.589	1670.820	1962.610
#3	2231.958	22585.75	2203.344	1660.607	1960.093

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5129-02 Acquired: 01/03/2025 17:06:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM3D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2171708	-.023226	2.503187	.1060940	.0394748	73.50490
Stddev	.0042523	.003632	.006179	.0055673	.0015211	.08869
%RSD	1.958061	15.63563	.2468440	5.247500	3.853252	.1206537
#1	.2143231	-.024603	2.507427	.1051803	.0384065	73.42960
#2	.2151305	-.025968	2.496098	.1010400	.0388016	73.48244
#3	.2220588	-.019108	2.506037	.1120616	.0412163	73.60265

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.576165	.0076216	.0078612	65.42717	.1463914	.1419123
Stddev	.004332	.0000803	.0001026	.12593	.0003459	.0005320
%RSD	.2748156	1.053612	1.305121	.1924778	.2362934	.3748680
#1	1.580950	.0076251	.0079781	65.46265	.1460061	.1413330
#2	1.575034	.0077001	.0077861	65.53156	.1466752	.1420252
#3	1.572511	.0075397	.0078195	65.28730	.1464930	.1423789

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4451368	183.9344	18.51651	20.34829	.2268708	-.006966
Stddev	.0096066	.4739	.01641	.06942	.0013921	.000567
%RSD	2.158116	.2576290	.0886284	.3411791	.6135905	8.143304
#1	.4369104	183.5615	18.50468	20.27026	.2284153	-.007533
#2	.4428056	183.7742	18.53524	20.37139	.2257129	-.006398
#3	.4556945	184.4677	18.50961	20.40322	.2264843	-.006968

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4909229	.1937687	1.564705	10.89786	F 11.96570	-.359367
Stddev	.0310642	.0158887	.001909	.13734	.03901	.003999
%RSD	6.327723	8.199811	.1220276	1.260202	.3260358	1.112901
#1	.5175625	.1781161	1.566166	11.05117	12.00933	-.363984
#2	.4568008	.2098834	1.562544	10.78610	11.95359	-.356999
#3	.4984055	.1933068	1.565405	10.85631	11.93418	-.357117

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5129-02 Acquired: 01/03/2025 17:06:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM3D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0136978	3.602119	6.113576	.1805406	.7972153	.0837474
Stddev	.0008629	.009140	.012135	.0016947	.0025161	.0003076
%RSD	6.299732	.2537514	.1984934	.9386989	.3156106	.3672497
#1	.0129156	3.591668	6.122552	.1821085	.7946541	.0840959
#2	.0146234	3.606071	6.099770	.1807708	.7973081	.0836320
#3	.0135543	3.608619	6.118407	.1787426	.7996837	.0835141

Elem	Li6707
Units	ppm
Avg	.0889670
Stddev	.0025200
%RSD	2.832546
#1	.0886602
#2	.0916264
#3	.0866145

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2243.065	22602.69	2208.851	1671.658	1965.505
Stddev	7.099	106.45	12.871	9.310	6.375
%RSD	.3164961	.4709672	.5827180	.5569345	.3243536
#1	2239.876	22616.63	2205.215	1669.007	1958.579
#2	2238.119	22701.49	2223.149	1682.006	1966.811
#3	2251.199	22489.96	2198.189	1663.961	1971.127

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5129-01LX5 Acquired: 01/03/2025 17:09:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM3L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0510018	-.005754	.5124853	.0227362	.0119040	17.21796	.3692890
Stddev	.0027158	.002358	.0012801	.0083360	.0023110	.66633	.0186290
%RSD	5.324864	40.97442	.2497778	36.66392	19.41362	3.869971	5.044552
#1	.0518905	-.003221	.5139064	.0201598	.0100389	16.48730	.3485349
#2	.0531618	-.007885	.5121265	.0320562	.0111838	17.79210	.3845641
#3	.0479530	-.006157	.5114229	.0159925	.0144894	17.37447	.3747679

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018187	.0015052	15.32405	.0346506	.0331730	.0968623	42.79950
Stddev	.0002971	.0000742	.58621	.0008277	.0004046	.0117979	1.64939
%RSD	16.33855	4.929038	3.825395	2.388739	1.219680	12.18002	3.853755
#1	.0014863	.0015570	14.67152	.0351911	.0333034	.0832836	40.97552
#2	.0020586	.0014202	15.80615	.0350630	.0334963	.1027010	44.18615
#3	.0019111	.0015385	15.49449	.0336977	.0327193	.1046023	43.23683

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.410690	4.806048	.0428724	-.002739	.1097522	.0448167	.3772986
Stddev	.180145	.259102	.0005258	.000619	.0256200	.0147377	.0032265
%RSD	4.084273	5.391167	1.226460	22.58291	23.34355	32.88427	.8551629
#1	4.212280	4.574846	.0424983	-.002479	.1187875	.0346687	.3778084
#2	4.563999	5.086097	.0426453	-.002293	.1296304	.0617213	.3802399
#3	4.455790	4.757203	.0434736	-.003445	.0808386	.0380601	.3738475

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.380857	2.449006	-.090192	.0035407	.7223709	1.256541	.0260238
Stddev	.240211	.004791	.001520	.0002448	.0043221	.031582	.0010285
%RSD	10.08928	.1956261	1.685560	6.914202	.5983179	2.513432	3.952191
#1	2.129988	2.450526	-.090082	.0033010	.7266052	1.220950	.0260548
#2	2.608762	2.443639	-.088729	.0037903	.7225416	1.281222	.0249801
#3	2.403819	2.452852	-.091764	.0035307	.7179661	1.267450	.0270364

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5129-01LX5 Acquired: 01/03/2025 17:09:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM3L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1800644	.0196327	.0135727
Stddev	.0130201	.0005889	.0041449
%RSD	7.230775	2.999707	30.53825
#1	.1705655	.0191628	.0090450
#2	.1949059	.0202933	.0144930
#3	.1747218	.0194419	.0171800

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1934.792	19466.65	1939.723	1439.109	2022.187
Stddev	3.380	55.64	54.848	8.385	1.621
%RSD	.1746919	.2858416	2.827627	.5826338	.0801686
#1	1935.992	19507.20	2000.736	1443.084	2021.039
#2	1930.976	19403.21	1894.506	1429.476	2021.479
#3	1937.408	19489.54	1923.927	1444.766	2024.041

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5129-03 Acquired: 01/03/2025 17:13:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM3S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2886061	.0666810	2.523663	.2463711	.1859096	74.62382
Stddev	.0044990	.0014621	.005761	.0049563	.0040312	.04843
%RSD	1.558887	2.192713	.2282887	2.011728	2.168365	.0648967
#1	.2915788	.0683018	2.529593	.2439272	.1847622	74.57541
#2	.2908093	.0654612	2.518087	.2431113	.1825765	74.62379
#3	.2834300	.0662800	2.523307	.2520747	.1903901	74.67227

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.923652	.0919958	.1064728	64.78221	.5010712	1.144728
Stddev	.011596	.0003004	.0000729	.18147	.0014871	.001182
%RSD	.2355092	.3264993	.0684346	.2801229	.2967746	.1032145
#1	4.921186	.0916494	.1065117	64.58295	.5024123	1.144260
#2	4.936282	.0921538	.1065181	64.93800	.5013294	1.146072
#3	4.913487	.0921841	.1063888	64.82569	.4994720	1.143852

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8190124	180.9577	19.02810	19.75665	1.248141	.0548837
Stddev	.0105237	.3553	.01092	.07852	.000943	.0008482
%RSD	1.284929	.1963184	.0573794	.3974181	.0755471	1.545419
#1	.8300319	180.5660	19.03673	19.66654	1.249219	.0557415
#2	.8090668	181.2590	19.03173	19.79308	1.247735	.0540454
#3	.8179387	181.0483	19.01582	19.81034	1.247469	.0548643

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4683050	1.048025	2.301537	10.61278	F 11.88398	-.366625
Stddev	.0105952	.005697	.005349	.26884	.00509	.003934
%RSD	2.262458	.5435986	.2324184	2.533145	.0428652	1.072963
#1	.4651491	1.054275	2.301677	10.90368	11.88008	-.363300
#2	.4596464	1.043123	2.306816	10.37348	11.88974	-.365609
#3	.4801196	1.046676	2.296120	10.56117	11.88211	-.370968

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5129-03 Acquired: 01/03/2025 17:13:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM3S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0131982	3.572290	5.233597	.1827650	.7730051	.0810976
Stddev	.0003552	.009930	.008314	.0023518	.0015921	.0006633
%RSD	2.691613	.2779612	.1588611	1.286781	.2059566	.8179514
#1	.0128084	3.562623	5.224006	.1825735	.7739914	.0813464
#2	.0132824	3.582463	5.238021	.1805148	.7711684	.0803458
#3	.0135037	3.571784	5.238763	.1852067	.7738554	.0816006

Elem	Li6707
Units	ppm
Avg	.0880194
Stddev	.0040991
%RSD	4.657017
#1	.0882129
#2	.0920183
#3	.0838270

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2259.864	22856.19	2248.113	1692.245	1985.153
Stddev	3.342	71.55	1.224	6.764	1.557
%RSD	.1478951	.3130623	.0544457	.3997039	.0784225
#1	2262.753	22795.40	2247.545	1685.118	1986.565
#2	2260.636	22838.13	2247.277	1693.044	1983.484
#3	2256.204	22935.05	2249.518	1698.575	1985.409

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5352-04 Acquired: 01/03/2025 17:17:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME2926 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1049796	-.040517	.2284254	.1038064	.0548673	113.7168	1.093979
Stddev	.0044007	.004887	.0011218	.0015477	.0027425	.4024	.002750
%RSD	4.191986	12.06267	.4910981	1.490989	4.998402	.3538983	.2514011
#1	.1093630	-.037593	.2283230	.1055928	.0537146	113.2853	1.091622
#2	.1050141	-.046160	.2273583	.1029597	.0528894	114.0820	1.093315
#3	.1005617	-.037799	.2295949	.1028668	.0579981	113.7831	1.097001

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0099405	.0028858	454.1085	.2182331	.1877527	.1860150	262.0546
Stddev	.0000789	.0000761	1.2987	.0002183	.0007710	.0066893	.1699
%RSD	.7941568	2.636013	.2859827	.1000408	.4106534	3.596089	.0648451
#1	.0098494	.0028036	454.3593	.2183268	.1877505	.1906655	261.9630
#2	.0099900	.0029001	455.2635	.2183889	.1885249	.1890307	262.2507
#3	.0099820	.0029537	452.7027	.2179835	.1869828	.1783488	261.9502

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.267445	194.8857	.4069150	-.018920	1.465904	.2887592	.5567540
Stddev	.009715	.6914	.0012743	.000787	.011881	.0058695	.0039941
%RSD	.1844321	.3547914	.3131560	4.160391	.8104895	2.032644	.7173976
#1	5.259751	194.1280	.4066946	-.018943	1.452251	.2853836	.5521856
#2	5.278362	195.4825	.4057653	-.018121	1.473897	.2853573	.5584900
#3	5.264221	195.0464	.4082851	-.019695	1.471564	.2955366	.5595864

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.57733	5.197994	-.486740	.0189090	6.878853	7.287725	.0230590
Stddev	.11824	.010732	.004983	.0015498	.018766	.053762	.0022904
%RSD	.5746342	.2064717	1.023805	8.195958	.2728044	.7377080	9.932863
#1	20.45711	5.203581	-.484545	.0172372	6.876583	7.253878	.0252535
#2	20.69350	5.185621	-.492444	.0191920	6.861325	7.349717	.0232401
#3	20.58138	5.204781	-.483231	.0202977	6.898651	7.259581	.0206834

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5352-04 Acquired: 01/03/2025 17:17:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME2926 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.803053	.3393797	.2737322
Stddev	.004845	.0010412	.0015813
%RSD	.2687153	.3067832	.5776693
#1	1.799777	.3384514	.2723020
#2	1.808619	.3405055	.2734642
#3	1.800764	.3391822	.2754303

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1896.743	19303.84	1947.072	1416.603	1735.357
Stddev	4.713	61.33	9.235	8.617	4.721
%RSD	.2484783	.3177218	.4743023	.6083158	.2720460
#1	1899.533	19259.75	1955.119	1421.810	1737.976
#2	1899.393	19373.88	1936.989	1421.342	1738.188
#3	1891.301	19277.89	1949.108	1406.656	1729.907

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5352-05 Acquired: 01/03/2025 17:21:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME2926D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1185248	-.038151	.2252767	.1101182	.0514579	113.5114	1.079071
Stddev	.0020958	.004140	.0024870	.0088730	.0007902	.7540	.001353
%RSD	1.768222	10.85268	1.103976	8.057674	1.535644	.6642919	.1253560
#1	.1206236	-.039096	.2271442	.1085903	.0522801	112.6432	1.077903
#2	.1164320	-.033619	.2262322	.1021084	.0507041	113.8880	1.078756
#3	.1185187	-.041737	.2224536	.1196559	.0513894	114.0030	1.080553

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0099830	.0024170	449.1126	.2144697	.1874991	.1886440	260.3365
Stddev	.0001733	.0001310	1.5667	.0014117	.0005868	.0132697	1.6213
%RSD	1.736358	5.419211	.3488328	.6582077	.3129761	7.034268	.6227772
#1	.0101541	.0025139	447.9296	.2134664	.1881766	.1746679	259.1042
#2	.0098075	.0024691	448.5189	.2160840	.1871705	.2010715	259.7321
#3	.0099876	.0022680	450.8894	.2138588	.1871501	.1901924	262.1732

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.226277	194.9510	.4002402	-.019224	1.507321	.2973294	.5490313
Stddev	.028028	.9639	.0020050	.001236	.015381	.0038499	.0040798
%RSD	.5362858	.4944170	.5009393	6.426895	1.020405	1.294840	.7430856
#1	5.196679	193.9475	.4023945	-.020075	1.494996	.2931336	.5505405
#2	5.229740	195.0358	.3984289	-.019792	1.524558	.3006994	.5444119
#3	5.252413	195.8696	.3998972	-.017807	1.502410	.2981552	.5521414

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.18776	5.148758	-.472415	.0180069	6.730161	7.336611	.0221762
Stddev	.12274	.005786	.003540	.0015986	.024819	.019401	.0034818
%RSD	.6079693	.1123791	.7494414	8.877798	.3687707	.2644390	15.70057
#1	20.30115	5.155041	-.474742	.0197643	6.741714	7.335550	.0221105
#2	20.05744	5.143649	-.474162	.0176174	6.747097	7.356520	.0187278
#3	20.20471	5.147583	-.468340	.0166390	6.701671	7.317762	.0256904

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5352-05 Acquired: 01/03/2025 17:21:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME2926D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.799938	.3330946	.2686204
Stddev	.006193	.0018352	.0043725
%RSD	.3440649	.5509445	1.627755
#1	1.794240	.3311121	.2636926
#2	1.799045	.3347341	.2701324
#3	1.806529	.3334375	.2720363

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1893.571	19278.71	1918.579	1405.005	1736.680
Stddev	3.753	31.72	5.748	6.691	3.464
%RSD	.1982034	.1645456	.2996023	.4762171	.1994883
#1	1891.751	19256.37	1918.870	1402.872	1734.125
#2	1891.075	19264.74	1912.691	1412.502	1735.291
#3	1897.887	19315.02	1924.177	1399.641	1740.623

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5352-04LX5 Acquired: 01/03/2025 17:25:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME2926L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0229395	.0081570	.0500880	.0143330	.0109674	24.60624	.2337851
Stddev	.0043072	.0055004	.0046516	.0033167	.0009809	.07998	.0028725
%RSD	18.77631	67.43188	9.286950	23.14056	8.944057	.3250311	1.228685
#1	.0187266	.0023419	.0461393	.0126949	.0098514	24.54129	.2319538
#2	.0227567	.0132766	.0552157	.0181500	.0116930	24.69557	.2370957
#3	.0273351	.0088524	.0489088	.0121539	.0113579	24.58185	.2323058

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023279	.0004594	99.96582	.0482580	.0561069	.0343068	57.70256
Stddev	.0001598	.0000935	.48752	.0006167	.0003593	.0113496	.10126
%RSD	6.862838	20.35834	.4876879	1.278011	.6403914	33.08280	.1754815
#1	.0021541	.0005615	99.40288	.0478126	.0558866	.0350775	57.62427
#2	.0024684	.0003780	100.2480	.0479995	.0565215	.0225914	57.81691
#3	.0023612	.0004387	100.2466	.0489619	.0559125	.0452514	57.66651

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.166481	43.78782	.0778904	-.004942	.3089513	.0554838	.1197802
Stddev	.003961	.09450	.0009385	.000586	.0245474	.0019739	.0010134
%RSD	.3395769	.2158122	1.204841	11.85017	7.945410	3.557654	.8460274
#1	1.170860	43.83987	.0783664	-.005202	.3335116	.0536163	.1206486
#2	1.165435	43.67874	.0768093	-.005353	.2844168	.0552858	.1186668
#3	1.163148	43.84485	.0784954	-.004272	.3089255	.0575493	.1200251

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.959568	1.008460	-.108591	.0085868	1.306896	1.640670	-.003327
Stddev	.221636	.006225	.003811	.0006178	.005397	.009137	.002831
%RSD	5.597474	.6173059	3.509491	7.194755	.4129994	.5569175	85.08814
#1	3.864841	1.014308	-.104930	.0092761	1.305964	1.635360	-.001926
#2	3.801037	1.009155	-.108308	.0080830	1.302026	1.635429	-.001470
#3	4.212826	1.001916	-.112536	.0084012	1.312699	1.651220	-.006586

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5352-04LX5 Acquired: 01/03/2025 17:25:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME2926L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3842274	.0715953	.0530603
Stddev	.0049947	.0004222	.0014111
%RSD	1.299930	.5897348	2.659451
#1	.3840559	.0714335	.0537757
#2	.3893056	.0712779	.0514348
#3	.3793206	.0720745	.0539706

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1827.673	18814.72	1818.837	1376.555	1909.181
Stddev	5.583	133.21	3.170	7.108	4.604
%RSD	.3054734	.7079831	.1742830	.5163927	.2411368
#1	1823.447	18750.90	1816.569	1374.676	1903.938
#2	1834.002	18725.43	1817.483	1370.575	1911.040
#3	1825.570	18967.82	1822.459	1384.414	1912.564

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5352-06 Acquired: 01/03/2025 17:29:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME2926S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1876753	.0475614	.2717656	.2607693	.2170891	114.9167	4.731751
Stddev	.0041518	.0015034	.0070563	.0054288	.0043055	1.2279	.015158
%RSD	2.212245	3.161016	2.596457	2.081844	1.983293	1.068496	.3203541
#1	.1839962	.0492858	.2736684	.2641019	.2140018	115.2478	4.728397
#2	.1868528	.0468722	.2639531	.2545050	.2220075	113.5572	4.718551
#3	.1921768	.0465261	.2776754	.2637011	.2152580	115.9451	4.748306

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1036939	.1023742	444.8214	.5987192	1.189699	.6093512	257.4923
Stddev	.0006272	.0001574	1.9660	.0020023	.003023	.0195560	2.2110
%RSD	.6048841	.1537107	.4419859	.3344256	.2540823	3.209315	.8586636
#1	.1043920	.1024895	445.1388	.5978810	1.191501	.6224671	258.2795
#2	.1031779	.1021950	442.7160	.5972723	1.186209	.5868742	254.9954
#3	.1035117	.1024383	446.6095	.6010044	1.191386	.6187124	259.2020

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.050786	191.6667	1.414273	.0472630	1.483915	1.247169	1.372256
Stddev	.031086	1.4405	.003451	.0015452	.018471	.011046	.006280
%RSD	.5137467	.7515645	.2439969	3.269458	1.244721	.8857057	.4576305
#1	6.070877	191.6644	1.413233	.0481150	1.505238	1.234766	1.374468
#2	6.014980	190.2273	1.411462	.0454793	1.473653	1.250793	1.377131
#3	6.066501	193.1083	1.418124	.0481947	1.472854	1.255948	1.365170

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.15686	5.099332	-.471683	.0186982	6.701435	7.664247	.0234671
Stddev	.32249	.004126	.003663	.0004955	.010372	.075953	.0011242
%RSD	1.599881	.0809049	.7765283	2.650255	.1547668	.9910063	4.790553
#1	20.23150	5.099828	-.474779	.0190214	6.712933	7.743832	.0227400
#2	19.80360	5.094981	-.467640	.0181277	6.698588	7.592539	.0247620
#3	20.43548	5.103188	-.472631	.0189454	6.692785	7.656370	.0228994

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5352-06 Acquired: 01/03/2025 17:29:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME2926S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.762726	.3275378	.2697460
Stddev	.007147	.0015725	.0040048
%RSD	.4054685	.4800893	1.484651
#1	1.765102	.3284157	.2661875
#2	1.754693	.3257224	.2689678
#3	1.768383	.3284753	.2740828

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1895.720	19489.76	1933.499	1424.875	1743.849
Stddev	3.948	73.99	18.475	.482	3.288
%RSD	.2082799	.3796380	.9555255	.0338033	.1885500
#1	1898.275	19520.59	1916.263	1425.075	1744.465
#2	1897.712	19543.36	1953.004	1424.326	1746.786
#3	1891.172	19405.34	1931.230	1425.225	1740.297

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5201-19 Acquired: 01/03/2025 17:32:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1215165	-.064532	.3902523	.1612852	.0623705	114.1381	.7807668
Stddev	.0054757	.003183	.0014324	.0022210	.0047639	.4488	.0039063
%RSD	4.506113	4.932661	.3670540	1.377070	7.638019	.3932361	.5003167
#1	.1267587	-.067983	.3905247	.1591772	.0575637	113.6553	.7766510
#2	.1158339	-.063901	.3915289	.1636042	.0670902	114.2164	.7812265
#3	.1219569	-.061711	.3887032	.1610742	.0624574	114.5426	.7844229

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0097450	.0033955	30.92068	.1459693	.1601862	.1959893	289.8834
Stddev	.0001891	.0001354	.21744	.0010278	.0003282	.0040731	1.1970
%RSD	1.940637	3.986316	.7032336	.7041042	.2048765	2.078217	.4129406
#1	.0097722	.0035473	30.70252	.1452368	.1602210	.1956159	288.5023
#2	.0099191	.0033517	30.92213	.1455270	.1598420	.2002363	290.6220
#3	.0095438	.0032874	31.13740	.1471442	.1604956	.1921158	290.5260

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.49034	34.47786	.2179814	-.020647	.5404967	.2820685	.3041500
Stddev	.09496	.22882	.0011329	.000717	.0106971	.0104173	.0031330
%RSD	.5758528	.6636850	.5197343	3.473710	1.979115	3.693185	1.030083
#1	16.38100	34.22555	.2189977	-.021423	.5300301	.2897182	.3017381
#2	16.53783	34.53607	.2167599	-.020509	.5514102	.2702042	.3030209
#3	16.55218	34.67196	.2181868	-.020009	.5400500	.2862830	.3076911

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.651851	3.784781	-.634306	.0079886	.5692978	4.183095	.0188750
Stddev	.178183	.006122	.003805	.0007337	.0017249	.003298	.0009211
%RSD	2.328626	.1617635	.5999113	9.184503	.3029812	.0788508	4.879884
#1	7.464722	3.781724	-.633338	.0071436	.5673084	4.186895	.0197756
#2	7.671348	3.780789	-.631078	.0084635	.5702089	4.181423	.0179347
#3	7.819484	3.791830	-.638502	.0083588	.5703761	4.180967	.0189146

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5201-19 Acquired: 01/03/2025 17:32:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.296761	-.175873	.1124533
Stddev	.012476	.000507	.0025738
%RSD	.9621214	.2884261	2.288820
#1	1.290837	-.175396	.1100654
#2	1.288350	-.176406	.1151796
#3	1.311096	-.175818	.1121148

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2307.641	23259.80	2275.337	1713.373	1859.110
Stddev	6.715	79.36	5.403	11.660	5.612
%RSD	.2910114	.3411812	.2374750	.6805053	.3018541
#1	2300.880	23259.11	2272.048	1717.796	1853.934
#2	2314.309	23339.50	2281.573	1722.175	1865.074
#3	2307.733	23180.79	2272.389	1700.150	1858.320

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5201-20 Acquired: 01/03/2025 17:36:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE7D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1208771	-.062018	.3908096	.1657343	.0650118	114.3817	.7810871
Stddev	.0008349	.004327	.0013799	.0083190	.0034479	.3427	.0053496
%RSD	.6906844	6.976758	.3530872	5.019479	5.303547	.2996528	.6848963
#1	.1211368	-.062697	.3902498	.1635630	.0644996	114.5780	.7821811
#2	.1199433	-.057392	.3897977	.1749236	.0618486	113.9859	.7752751
#3	.1215513	-.065966	.3923815	.1587162	.0686872	114.5811	.7858053

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0099948	.0034761	31.09744	.1463425	.1605570	.1853026	290.8678
Stddev	.0001710	.0000814	.16397	.0001792	.0001585	.0076931	1.0494
%RSD	1.710610	2.342465	.5272848	.1224594	.0987266	4.151617	.3607968
#1	.0098117	.0035682	31.14604	.1461357	.1605339	.1789570	291.7849
#2	.0100225	.0034138	30.91466	.1464387	.1604113	.1938590	289.7233
#3	.0101503	.0034462	31.23162	.1464531	.1607258	.1830918	291.0953

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.52937	34.36290	.2206981	-.020808	.5316026	.2747463	.3094816
Stddev	.02892	.10741	.0012749	.000905	.0071706	.0159914	.0009101
%RSD	.1749528	.3125842	.5776524	4.350795	1.348856	5.820434	.2940822
#1	16.52614	34.33334	.2219407	-.020653	.5388999	.2875890	.3084313
#2	16.50220	34.27337	.2193932	-.021781	.5313419	.2798152	.3100385
#3	16.55977	34.48200	.2207605	-.019990	.5245659	.2568348	.3099749

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.589540	3.788160	-.633870	.0078204	.5729120	4.192512	.0200753
Stddev	.061733	.012838	.006873	.0003005	.0037041	.022787	.0018550
%RSD	.8134011	.3389036	1.084242	3.842878	.6465366	.5435262	9.240299
#1	7.635185	3.799933	-.635592	.0076170	.5724417	4.203589	.0215636
#2	7.614136	3.774472	-.626300	.0076787	.5768288	4.166304	.0206654
#3	7.519300	3.790074	-.639718	.0081656	.5694655	4.207643	.0179971

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5201-20 Acquired: 01/03/2025 17:36:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE7D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.306015	-.176882	.1115108
Stddev	.008463	.000597	.0006991
%RSD	.6479722	.3374153	.6269209
#1	1.315726	-.177192	.1115903
#2	1.300219	-.176194	.1121667
#3	1.302099	-.177260	.1107753

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2320.263	23455.19	2297.087	1730.857	1866.674
Stddev	6.900	96.13	18.450	9.880	4.515
%RSD	.2973840	.4098514	.8031829	.5707950	.2419002
#1	2324.827	23350.06	2279.236	1719.642	1864.622
#2	2323.637	23538.60	2316.082	1738.274	1871.851
#3	2312.325	23476.92	2295.942	1734.656	1863.549

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5201-19LX5 Acquired: 01/03/2025 17:40:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE7L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0276208	-.017129	.0756398	.0368179	.0180164	28.46327	.1903659
Stddev	.0054918	.002256	.0030476	.0041167	.0037118	.27328	.0025489
%RSD	19.88287	13.16762	4.029067	11.18125	20.60239	.9601212	1.338941
#1	.0326793	-.016779	.0768481	.0409984	.0218151	28.60845	.1932978
#2	.0284035	-.019539	.0778980	.0366871	.0178359	28.14803	.1891225
#3	.0217796	-.015069	.0721734	.0327682	.0143981	28.63332	.1886772

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023357	.0005002	7.664636	.0365784	.0337040	.0484677	71.77631
Stddev	.0001807	.0000345	.085438	.0010314	.0001757	.0026556	.22884
%RSD	7.734583	6.895267	1.114700	2.819732	.5213960	5.479012	.3188282
#1	.0025167	.0005265	7.681218	.0356866	.0335022	.0499152	71.93091
#2	.0023351	.0004612	7.572123	.0363407	.0338232	.0454029	71.51342
#3	.0021553	.0005130	7.740567	.0377079	.0337866	.0500850	71.88459

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.140622	8.579557	.0435355	-.006326	.1014505	.0538848	.0777686
Stddev	.022460	.110389	.0006449	.001311	.0175884	.0048683	.0008890
%RSD	.5424360	1.286655	1.481228	20.72746	17.33692	9.034619	1.143081
#1	4.150748	8.608491	.0438249	-.005984	.1217558	.0533530	.0778512
#2	4.114882	8.457582	.0439848	-.005219	.0909460	.0589971	.0786133
#3	4.156237	8.672598	.0427966	-.007774	.0916497	.0493042	.0768412

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.975687	.7523062	-.162663	.0013784	.0996046	1.165037	-.007884
Stddev	.227334	.0002607	.002131	.0008277	.0024032	.005615	.001047
%RSD	11.50657	.0346485	1.310175	60.04857	2.412748	.4819990	13.27664
#1	2.236218	.7520052	-.164559	.0008468	.0995330	1.168161	-.007218
#2	1.817615	.7524619	-.160356	.0023321	.1020427	1.168395	-.007343
#3	1.873227	.7524513	-.163073	.0009564	.0972379	1.158554	-.009090

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5201-19LX5 Acquired: 01/03/2025 17:40:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE7L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3160931	-.043257	.0217884
Stddev	.0012621	.000213	.0019937
%RSD	.3992699	.4926645	9.150475
#1	.3148543	-.043145	.0235096
#2	.3160477	-.043502	.0196037
#3	.3173772	-.043122	.0222518

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1927.246	19516.94	1897.446	1448.091	1963.482
Stddev	5.435	94.15	12.423	11.924	4.198
%RSD	.2819929	.4823801	.6547325	.8234501	.2137945
#1	1928.333	19415.39	1883.760	1440.412	1963.150
#2	1921.351	19534.11	1900.566	1442.032	1959.460
#3	1932.056	19601.32	1908.011	1461.828	1967.836

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5201-21 Acquired: 01/03/2025 17:44:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE7S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1969138	.0188452	.4224732	.2992461	.1996946	115.8158	3.998103
Stddev	.0058186	.0013014	.0045563	.0036156	.0027977	.4123	.013075
%RSD	2.954876	6.905690	1.078478	1.208232	1.400973	.3560035	.3270393
#1	.1926352	.0202960	.4268445	.3032903	.1966601	115.3695	3.986084
#2	.1945668	.0184589	.4228229	.2963264	.2002521	116.1825	3.996200
#3	.2035393	.0177806	.4177521	.2981216	.2021715	115.8955	4.012026

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0895171	.1044556	31.05000	.4804763	1.187754	.5767274	288.6292
Stddev	.0008273	.0003967	.16891	.0008634	.003223	.0085001	.3536
%RSD	.9241928	.3798122	.5439870	.1796880	.2713490	1.473844	.1224962
#1	.0896929	.1042543	30.93382	.4810863	1.186893	.5745499	288.2260
#2	.0886160	.1042000	30.97242	.4794884	1.185049	.5695280	288.7753
#3	.0902424	.1049127	31.24376	.4808541	1.191320	.5861045	288.8863

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.15099	34.01670	1.260434	.0386233	.5438225	1.080648	1.010942
Stddev	.04512	.19821	.004735	.0015127	.0097835	.005007	.007457
%RSD	.2630689	.5826949	.3756729	3.916451	1.799023	.4632904	.7376387
#1	17.10620	34.01572	1.259976	.0402387	.5507661	1.075837	1.002959
#2	17.15036	34.21540	1.255945	.0372404	.5326334	1.080276	1.012139
#3	17.19643	33.81898	1.265381	.0383907	.5480681	1.085830	1.017728

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.704983	3.754993	-.632836	.0080697	.5739057	4.206028	.0195837
Stddev	.333029	.013496	.010383	.0011826	.0074109	.032160	.0029829
%RSD	4.322261	.3594197	1.640726	14.65425	1.291304	.7646074	15.23155
#1	7.526063	3.753726	-.633803	.0086450	.5803133	4.199615	.0229285
#2	7.499657	3.742175	-.622003	.0067096	.5657899	4.177559	.0186234
#3	8.089230	3.769078	-.642701	.0088546	.5756139	4.240911	.0171993

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5201-21 Acquired: 01/03/2025 17:44:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE7S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.293123	-.175624	.1138949
Stddev	.000849	.000231	.0012596
%RSD	.0656759	.1316664	1.105902
#1	1.292190	-.175658	.1152637
#2	1.293851	-.175378	.1127846
#3	1.293329	-.175837	.1136364

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2311.120	23574.70	2302.330	1743.715	1866.886
Stddev	4.423	77.92	9.013	10.403	4.272
%RSD	.1913866	.3305026	.3914670	.5966156	.2288143
#1	2315.506	23558.67	2304.039	1753.262	1866.872
#2	2311.194	23506.06	2310.365	1732.627	1871.165
#3	2306.661	23659.39	2292.584	1745.255	1862.621

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5212-05 Acquired: 01/03/2025 17:48:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1247732	-.005326	1.853927	.0664241	.0319680	64.92132
Stddev	.0066588	.003448	.005158	.0027478	.0032692	.21883
%RSD	5.336728	64.74048	.2782046	4.136690	10.22649	.3370678
#1	.1323301	-.008260	1.859782	.0649325	.0284468	65.17290
#2	.1222235	-.006190	1.851945	.0647447	.0325501	64.81598
#3	.1197660	-.001528	1.850055	.0695951	.0349070	64.77509

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.868325	.0058107	.0056896	289.3910	.1628481	.1346455
Stddev	.006353	.0000914	.0000798	.6648	.0015802	.0006874
%RSD	.3400493	1.573266	1.403154	.2297118	.9703227	.5105379
#1	1.875586	.0058739	.0057596	290.1064	.1637151	.1353778
#2	1.865602	.0058522	.0056026	289.2742	.1610243	.1340141
#3	1.863788	.0057059	.0057065	288.7924	.1638050	.1345446

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4042896	164.5024	13.55404	41.23241	.1585661	-.007475
Stddev	.0039670	.6718	.02701	.17963	.0008111	.000808
%RSD	.9812225	.4084119	.1992449	.4356543	.5115216	10.80485
#1	.3998044	165.2408	13.58402	41.43913	.1576654	-.008285
#2	.4057261	163.9270	13.54649	41.11432	.1592388	-.006670
#3	.4073382	164.3395	13.53162	41.14377	.1587940	-.007470

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6959385	.1770379	1.100185	7.607690	F 14.65541	-.321687
Stddev	.0204865	.0108613	.001797	.149700	.01888	.002759
%RSD	2.943722	6.135024	.1633521	1.967746	.1288288	.8575687
#1	.7195280	.1725335	1.098374	7.445487	14.67256	-.324501
#2	.6826116	.1894267	1.100213	7.740539	14.65848	-.321574
#3	.6856758	.1691535	1.101968	7.637044	14.63518	-.318987

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5212-05 Acquired: 01/03/2025 17:48:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0131961	3.136351	10.88113	.0822546	.7415821	.2031343
Stddev	.0008335	.011455	.07622	.0015469	.0028801	.0011818
%RSD	6.316345	.3652333	.7004962	1.880612	.3883780	.5817742
#1	.0122587	3.133911	10.96870	.0821081	.7446968	.2035345
#2	.0134760	3.148830	10.82967	.0807862	.7410345	.2040641
#3	.0138536	3.126313	10.84503	.0838696	.7390151	.2018044

Elem	Li6707
Units	ppm
Avg	.0970067
Stddev	.0042689
%RSD	4.400631
#1	.1019338
#2	.0946689
#3	.0944173

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2210.815	22547.47	2229.836	1661.960	1859.645
Stddev	1.497	79.43	14.771	4.432	2.442
%RSD	.0677009	.3522898	.6624452	.2666793	.1313262
#1	2209.164	22526.21	2213.039	1662.752	1862.194
#2	2212.084	22635.37	2240.801	1665.942	1857.326
#3	2211.196	22480.83	2235.668	1657.185	1859.416

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5212-06 Acquired: 01/03/2025 17:51:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF3D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1298440	-.001457	1.843290	.0628317	.0364020	64.56243
Stddev	.0049436	.002793	.003403	.0054762	.0029869	.44861
%RSD	3.807326	191.7144	.1846090	8.715677	8.205425	.6948510
#1	.1253831	-.000602	1.842742	.0690457	.0330943	64.10778
#2	.1351590	.000809	1.846934	.0587106	.0372095	65.00475
#3	.1289898	-.004577	1.840195	.0607386	.0389022	64.57475

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.857570	.0058105	.0056219	287.8911	.1618723	.1338023
Stddev	.001834	.0001278	.0000385	.7335	.0003103	.0015984
%RSD	.0987180	2.199289	.6849550	.2547985	.1916785	1.194608
#1	1.856265	.0059390	.0055855	287.0863	.1619645	.1344136
#2	1.856778	.0056834	.0056178	288.5222	.1621259	.1319884
#3	1.859666	.0058090	.0056622	288.0647	.1615263	.1350048

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3934045	163.5655	13.50355	40.65194	.1565765	-.007660
Stddev	.0065264	.6219	.05582	.23356	.0013790	.000764
%RSD	1.658951	.3801942	.4133474	.5745419	.8807050	9.976055
#1	.3979907	162.8750	13.44021	40.74141	.1579244	-.007284
#2	.3962901	164.0815	13.54554	40.38686	.1551684	-.008539
#3	.3859327	163.7400	13.52490	40.82753	.1566367	-.007157

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6772811	.1699516	1.094857	7.341839	F 14.49295	-.323271
Stddev	.0115284	.0117945	.004085	.170886	.00830	.001689
%RSD	1.702158	6.939895	.3730751	2.327560	.0572409	.5225196
#1	.6668129	.1821367	1.098401	7.259140	14.50039	-.325211
#2	.6753936	.1585910	1.095779	7.538342	14.48401	-.322474
#3	.6896367	.1691271	1.090389	7.228035	14.49446	-.322128

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5212-06 Acquired: 01/03/2025 17:51:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF3D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0127238	3.098609	10.84627	.0824215	.7385454	.2038408
Stddev	.0004276	.004924	.02867	.0015285	.0072994	.0006205
%RSD	3.360301	.1589109	.2643172	1.854482	.9883472	.3043785
#1	.0122451	3.093560	10.86901	.0813559	.7301356	.2031255
#2	.0130677	3.103397	10.85574	.0841728	.7422630	.2042334
#3	.0128587	3.098869	10.81407	.0817358	.7432376	.2041635

Elem	Li6707
Units	ppm
Avg	.0955069
Stddev	.0026574
%RSD	2.782383
#1	.0927233
#2	.0980169
#3	.0957806

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2202.545	22586.37	2236.420	1662.960	1863.261
Stddev	5.110	76.07	5.027	5.587	3.923
%RSD	.2320261	.3367855	.2247873	.3359895	.2105234
#1	2207.003	22647.01	2235.988	1666.375	1863.992
#2	2196.968	22501.02	2231.623	1656.512	1859.025
#3	2203.663	22611.09	2241.649	1665.992	1866.767

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5212-05LX5 Acquired: 01/03/2025 17:55:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF3L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0199139	.0074201	.3734713	.0076933	.0071001	15.76017	.4367206
Stddev	.0009647	.0015885	.0031123	.0061015	.0019390	.03783	.0009311
%RSD	4.844264	21.40825	.8333337	79.30902	27.30975	.2400222	.2131990
#1	.0188008	.0082852	.3757452	.0138045	.0062928	15.72950	.4357949
#2	.0204333	.0083883	.3699244	.0076739	.0056952	15.74856	.4376570
#3	.0205075	.0055868	.3747445	.0016016	.0093123	15.80244	.4367098

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013808	.0009903	68.82187	.0383564	.0433377	.0855645	39.45007
Stddev	.0002184	.0000302	.26126	.0004333	.0002191	.0124807	.15940
%RSD	15.81831	3.050806	.3796184	1.129632	.5055980	14.58628	.4040488
#1	.0014676	.0010125	68.99965	.0383612	.0435872	.0990776	39.62863
#2	.0011323	.0009558	68.52190	.0387873	.0431766	.0831452	39.32212
#3	.0015425	.0010024	68.94405	.0379208	.0432493	.0744705	39.39947

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.286783	9.957810	.0269186	-.001276	.1462345	.0339806	.2655798
Stddev	.010239	.169449	.0005384	.001052	.0277103	.0093493	.0026343
%RSD	.3115195	1.701670	1.999999	82.46472	18.94922	27.51375	.9919081
#1	3.296756	10.13988	.0269712	-.000215	.1152900	.0379053	.2634954
#2	3.287295	9.92884	.0274288	-.002320	.1546579	.0407280	.2685406
#3	3.276298	9.80471	.0263559	-.001293	.1687558	.0233087	.2647034

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.947168	2.846730	-.082757	.0071901	.5985249	2.633463	.0057886
Stddev	.199506	.010465	.001306	.0004762	.0031889	.006422	.0015664
%RSD	10.24597	.3675986	1.578504	6.622863	.5327864	.2438658	27.05928
#1	2.176341	2.840601	-.083067	.0077386	.6022070	2.637232	.0065765
#2	1.812271	2.840775	-.083880	.0069500	.5967067	2.626048	.0039847
#3	1.852891	2.858813	-.081323	.0068818	.5966610	2.637109	.0068046

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5212-05LX5 Acquired: 01/03/2025 17:55:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF3L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1681173	.0475637	.0146530
Stddev	.0048807	.0001074	.0043948
%RSD	2.903173	.2257274	29.99280
#1	.1687917	.0475836	.0180641
#2	.1629344	.0476598	.0162012
#3	.1726257	.0474478	.0096935

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1888.895	19197.76	1865.590	1409.629	1948.747
Stddev	1.601	64.29	4.375	10.015	1.715
%RSD	.0847775	.3348668	.2344911	.7104399	.0879811
#1	1888.232	19197.72	1860.539	1411.971	1949.337
#2	1890.721	19133.49	1868.051	1398.651	1950.089
#3	1887.732	19262.06	1868.180	1418.265	1946.816

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCV103 Acquired: 01/03/2025 17:59:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV103 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.887965	4.870437	24.67143	4.877354	4.906258	402.2004
Stddev	.007008	.009030	.04506	.017560	.015427	3.3642
%RSD	.1433795	.1853950	.1826234	.3600269	.3144265	.8364363
#1	4.894452	4.880850	24.66080	4.857485	4.892926	404.2082
#2	4.880532	4.865702	24.63265	4.883790	4.902694	398.3166
#3	4.888910	4.864761	24.72085	4.890788	4.923155	404.0764

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.14044	.5148720	2.475023	405.2222	15.44588	2.512421
Stddev	.03466	.0026470	.002744	1.8625	.01286	.003001
%RSD	.3418484	.5141134	.1108478	.4596365	.0832269	.1194652
#1	10.17265	.5155599	2.473246	407.3470	15.45560	2.511824
#2	10.14492	.5171072	2.473640	403.8715	15.43130	2.509762
#3	10.10376	.5119489	2.478182	404.4482	15.45074	2.515675

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.25920	405.3560	15.15921	406.2900	2.507345	1.245691
Stddev	.05539	2.7756	.10949	2.4384	.002595	.002627
%RSD	.3629709	.6847198	.7222982	.6001533	.1035024	.2108912
#1	15.32281	406.9677	15.19183	408.3153	2.506760	1.248713
#2	15.22165	402.1510	15.03711	403.5835	2.505092	1.243948
#3	15.23314	406.9491	15.24869	406.9713	2.510183	1.244413

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	416.2829	2.530663	14.65352	154.3237	4.982117	F 4.464340
Stddev	1.3960	.035493	.04291	.8929	.010924	.021133
%RSD	.3353530	1.402516	.2928331	.5786000	.2192550	.4733834
#1	417.8107	2.551722	14.69546	155.2568	4.989697	4.473963
#2	415.9643	2.489684	14.65539	153.4773	4.969596	4.478950
#3	415.0738	2.550582	14.60970	154.2369	4.987058	4.440108

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCV103 Acquired: 01/03/2025 17:59:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV103 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.885210	4.916386	5.045221	4.984769	5.045768	4.799414
Stddev	.008810	.004949	.027485	.002637	.052343	.027841
%RSD	.1803370	.1006548	.5447777	.0528969	1.037361	.5800898
#1	4.876636	4.921778	5.053275	4.984937	5.089684	4.815373
#2	4.884756	4.915329	5.067779	4.982052	4.987847	4.767266
#3	4.894238	4.912052	5.014608	4.987318	5.059772	4.815603

Elem	Li6707
Units	ppm
Avg	5.003343
Stddev	.011527
%RSD	.2303909
#1	5.014514
#2	4.991490
#3	5.004024

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1502.785	16481.58	1668.904	1123.302	1619.151
Stddev	2.736	76.60	4.191	2.328	1.631
%RSD	.1820861	.4647513	.2510988	.2072624	.1007306
#1	1505.943	16456.86	1665.284	1120.881	1621.026
#2	1501.116	16567.48	1667.933	1125.524	1618.365
#3	1501.296	16420.39	1673.495	1123.502	1618.062

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCB103 Acquired: 01/03/2025 18:03:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB103 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001446	.0008454	-.000859	-.000454	.0003634	.0675623	-.001813
Stddev	.003607	.0009536	.002473	.000880	.0034178	.0121984	.000903
%RSD	249.4557	112.8046	287.8483	193.7253	940.6517	18.05509	49.81611
#1	-.002804	.0002848	-.000413	-.001424	-.002836	.0792494	-.001951
#2	.002643	.0003049	.001361	.000294	-.000038	.0549099	-.000848
#3	-.004177	.0019465	-.003525	-.000233	.003964	.0685276	-.002639

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001278	.0000637	-.062057	-.000103	-.000230	-.009377	.0166474
Stddev	.0000595	.0000631	.028278	.000724	.000152	.004040	.0123487
%RSD	46.58302	99.10036	45.56840	700.8308	66.12122	43.07809	74.17783
#1	.0001964	.0000454	-.073143	.000655	-.000302	-.012324	.0140170
#2	.0000978	.0001338	-.029915	-.000178	-.000055	-.004773	.0300994
#3	.0000893	.0000117	-.083113	-.000787	-.000332	-.011035	.0058259

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038553	-.049318	-.000790	.0016674	.1269946	-.003371	-.000049
Stddev	.0027600	.104220	.000500	.0003930	.0134583	.016288	.000230
%RSD	71.59079	211.3214	63.23398	23.57320	10.59757	483.1333	466.2245
#1	.0012869	-.118232	-.000385	.0016962	.1414427	.001515	.000206
#2	.0067736	-.100300	-.000637	.0020452	.1247270	.009914	-.000239
#3	.0035053	.070578	-.001348	.0012607	.1148142	-.021543	-.000114

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2315351	-.000483	.0081695	.0000915	-.014449	-.001291	.0009656
Stddev	.0351435	.001758	.0015957	.0005800	.000359	.000445	.0005381
%RSD	15.17848	364.2962	19.53204	633.9658	2.481560	34.42866	55.72660
#1	.1910956	.000948	.0078242	-.000570	-.014138	-.001774	.0007088
#2	.2488306	-.002445	.0067747	.000334	-.014369	-.000900	.0006040
#3	.2546791	.000049	.0099095	.000511	-.014841	-.001200	.0015840

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCB103 Acquired: 01/03/2025 18:03:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB103 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.004402	-.000220	.0098201
Stddev	.005031	.000132	.0031938
%RSD	114.2907	59.83869	32.52352
#1	-.003551	-.000353	.0068889
#2	-.009805	-.000217	.0132239
#3	.000149	-.000090	.0093474

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1823.571	18527.59	1799.227	1367.276	2020.906
Stddev	5.642	61.80	9.639	12.378	6.798
%RSD	.3093708	.3335774	.5357331	.9052921	.3363893
#1	1818.581	18457.78	1803.978	1359.057	2013.350
#2	1822.440	18549.70	1805.569	1381.512	2022.842
#3	1829.693	18575.31	1788.135	1361.258	2026.526

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5212-07 Acquired: 01/03/2025 18:07:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF3S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2063269	.0812376	1.865619	.2132975	.1838416	67.99960
Stddev	.0069181	.0036812	.006639	.0035038	.0028019	.44592
%RSD	3.352986	4.531416	.3558770	1.642690	1.524076	.6557744
#1	.2141657	.0775125	1.861624	.2173241	.1835257	67.59268
#2	.2010752	.0848733	1.861950	.2116259	.1867881	67.92981
#3	.2037398	.0813269	1.873283	.2109426	.1812111	68.47630

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.174954	.0910545	.1052172	285.3221	.5161133	1.148694
Stddev	.024523	.0011042	.0003832	1.2673	.0012934	.002720
%RSD	.4738751	1.212687	.3641635	.4441714	.2506061	.2367634
#1	5.164433	.0897887	.1054106	284.6169	.5151279	1.148749
#2	5.157447	.0915544	.1047759	284.5642	.5175779	1.145948
#3	5.202982	.0918202	.1054652	286.7851	.5156339	1.151386

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7951115	165.4979	14.33721	40.79579	1.184141	.0544659
Stddev	.0048383	1.2320	.09329	.15728	.002405	.0010450
%RSD	.6085033	.7444493	.6506945	.3855332	.2030637	1.918587
#1	.7899327	164.7719	14.28283	40.61959	1.181723	.0532723
#2	.7958859	164.8014	14.28387	40.84578	1.184168	.0552161
#3	.7995158	166.9205	14.44493	40.92200	1.186532	.0549092

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7559133	1.046595	1.864239	7.439420	F 14.35527	-.312293
Stddev	.0224179	.009950	.009017	.307988	.02836	.001586
%RSD	2.965675	.9507383	.4837084	4.139948	.1975599	.5077006
#1	.7300375	1.057237	1.872803	7.107415	14.34784	-.312910
#2	.7694795	1.045025	1.854828	7.495032	14.33137	-.310491
#3	.7682229	1.037523	1.865087	7.715813	14.38661	-.313477

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5212-07 Acquired: 01/03/2025 18:07:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF3S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0139439	3.055429	10.85094	.0796958	.7336099	.2001869
Stddev	.0003404	.014100	.08733	.0019668	.0048070	.0015273
%RSD	2.440905	.4614836	.8048559	2.467842	.6552590	.7629518
#1	.0135746	3.048008	10.76171	.0802889	.7280681	.1990714
#2	.0142450	3.046589	10.85488	.0775008	.7366535	.1995617
#3	.0140120	3.071690	10.93624	.0812978	.7361080	.2019276

Elem	Li6707
Units	ppm
Avg	.0954263
Stddev	.0013596
%RSD	1.424711
#1	.0955198
#2	.0940224
#3	.0967366

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2175.797	22212.45	2185.727	1624.886	1845.532
Stddev	4.545	49.54	15.666	8.552	6.438
%RSD	.2089001	.2230262	.7167280	.5263127	.3488347
#1	2180.882	22178.18	2201.407	1615.022	1852.022
#2	2174.384	22189.91	2185.699	1630.218	1845.427
#3	2172.127	22269.25	2170.075	1629.419	1839.148

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-05 Acquired: 01/03/2025 18:11:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA0S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2741325	.0647952	4.135668	.2396316	.2367651	55.30143
Stddev	.0013884	.0008954	.008249	.0072288	.0014001	.17704
%RSD	.5064821	1.381827	.1994554	3.016628	.5913555	.3201293
#1	.2742400	.0641245	4.136176	.2332721	.2351515	55.21184
#2	.2754641	.0658119	4.127176	.2381293	.2374838	55.50535
#3	.2726935	.0644491	4.143650	.2474935	.2376599	55.18709

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.159022	.1021612	.1079308	173.6868	.5701772	1.112070
Stddev	.042436	.0011560	.0001279	1.0577	.0006276	.001227
%RSD	.8225614	1.131574	.1184729	.6089923	.1100618	.1103467
#1	5.143800	.1017330	.1078376	173.6816	.5698826	1.111333
#2	5.206970	.1034703	.1078782	174.7472	.5697512	1.111391
#3	5.126297	.1012805	.1080766	172.6317	.5708979	1.113487

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.014883	186.4616	6.962534	42.79954	1.231598	.0580572
Stddev	.002711	.9301	.028065	.12305	.001322	.0011181
%RSD	.2670764	.4988114	.4030878	.2875047	.1073061	1.925807
#1	1.015529	185.6052	6.939194	42.66160	1.231080	.0589459
#2	1.017212	187.4511	6.993674	42.89804	1.230613	.0584239
#3	1.011908	186.3287	6.954736	42.83897	1.233100	.0568019

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9743547	1.158046	4.136587	6.110857	F 14.11286	-.354110
Stddev	.0042047	.019298	.012252	.275498	.03237	.007988
%RSD	.4315378	1.666469	.2961801	4.508344	.2293466	2.255873
#1	.9748299	1.142219	4.132382	5.835987	14.10548	-.355525
#2	.9783016	1.179545	4.150388	6.386980	14.08482	-.361296
#3	.9699326	1.152372	4.126992	6.109605	14.14828	-.345509

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-05 Acquired: 01/03/2025 18:11:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA0S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0146442	4.325863	4.933528	.3766295	1.029449	.2454840
Stddev	.0006345	.019653	.047236	.0019414	.010033	.0009792
%RSD	4.332853	.4543132	.9574451	.5154556	.9746429	.3988972
#1	.0152916	4.318979	4.935217	.3768263	1.026696	.2453231
#2	.0140235	4.310578	4.979897	.3745972	1.040571	.2465336
#3	.0146176	4.348032	4.885471	.3784650	1.021078	.2445951

Elem	Li6707
Units	ppm
Avg	.0737289
Stddev	.0012278
%RSD	1.665300
#1	.0724434
#2	.0738536
#3	.0748895

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2001.832	20272.86	2019.389	1495.243	1921.699
Stddev	3.736	36.28	17.504	1.952	2.655
%RSD	.1866370	.1789426	.8667852	.1305267	.1381820
#1	2000.547	20231.17	2014.189	1495.959	1919.570
#2	2006.041	20297.18	2005.075	1493.035	1924.675
#3	1998.908	20290.24	2038.904	1496.736	1920.852

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5054-03A Acquired: 01/03/2025 18:14:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR2A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2177228	.0299646	3.392294	.0595126	.0324916	100.3359	1.317195
Stddev	.0050855	.0033662	.007515	.0028134	.0017914	.2201	.005128
%RSD	2.335775	11.23393	.2215190	4.727419	5.513490	.2193481	.3892742
#1	.2154059	.0332437	3.383893	.0604121	.0311226	100.5615	1.319366
#2	.2142082	.0265176	3.394615	.0617662	.0345191	100.1217	1.311339
#3	.2235542	.0301326	3.398375	.0563594	.0318331	100.3245	1.320880

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0112895	.0073290	189.9613	.1536307	.1933819	1.094963	158.6513
Stddev	.0001330	.0001092	1.0191	.0021895	.0007283	.010659	.6441
%RSD	1.177945	1.489754	.5364703	1.425158	.3765948	.9734975	.4059870
#1	.0114431	.0073629	190.4522	.1533686	.1925665	1.083926	159.1058
#2	.0112149	.0072069	188.7896	.1559395	.1936114	1.095765	157.9142
#3	.0112106	.0074172	190.6420	.1515841	.1939677	1.105200	158.9339

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.898464	39.02711	.3121130	-.011513	1.705502	.2774670	4.298006
Stddev	.033955	.11361	.0004683	.001008	.027653	.0040814	.010459
%RSD	.5756548	.2910946	.1500508	8.752934	1.621375	1.470954	.2433415
#1	5.931928	38.97182	.3116423	-.011350	1.733403	.2798269	4.298398
#2	5.864039	39.15778	.3121179	-.012593	1.705000	.2727542	4.308263
#3	5.899423	38.95174	.3125789	-.010597	1.678104	.2798198	4.287356

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.52994	8.217419	-.275074	.0260986	3.991534	12.25693	.0565741
Stddev	.14847	.014025	.000913	.0003203	.011746	.07291	.0011227
%RSD	1.184932	.1706726	.3317502	1.227063	.2942852	.5948487	1.984538
#1	12.48280	8.206861	-.274514	.0257802	3.993311	12.33934	.0555550
#2	12.41077	8.212064	-.276127	.0264207	3.979000	12.23067	.0577776
#3	12.69627	8.233333	-.274581	.0260948	4.002291	12.20079	.0563897

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5054-03A Acquired: 01/03/2025 18:14:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR2A Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8703629	.3557669	.2409880
Stddev	.0091030	.0007112	.0035113
%RSD	1.045890	.1999088	1.457058
#1	.8785703	.3554292	.2385457
#2	.8719464	.3552875	.2394064
#3	.8605720	.3565841	.2450120

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2074.910	21016.47	2081.771	1548.572	1869.213
Stddev	5.890	81.02	9.264	3.141	6.651
%RSD	.2838842	.3855220	.4449878	.2028298	.3558011
#1	2081.683	20968.22	2071.139	1552.183	1874.968
#2	2072.064	20971.18	2086.070	1546.478	1870.738
#3	2070.983	21110.01	2088.104	1547.053	1861.932

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5055-10A Acquired: 01/03/2025 18:18:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKT3A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1347506	.0303735	1.006278	.1375116	.0332860	71.47112
Stddev	.0017374	.0033862	.001930	.0058449	.0013517	.50979
%RSD	1.289325	11.14859	.1918321	4.250497	4.060913	.7132759
#1	.1342152	.0342500	1.005944	.1390746	.0321009	71.34398
#2	.1366926	.0279928	1.004536	.1310441	.0329989	71.03693
#3	.1333439	.0288777	1.008353	.1424162	.0347582	72.03244

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.380791	.0067681	.0059307	124.1102	.1150776	.1087028
Stddev	.006372	.0001835	.0001855	.8456	.0005384	.0009001
%RSD	.4615097	2.711121	3.126935	.6812917	.4678522	.8280254
#1	1.386254	.0069548	.0061444	124.1903	.1144559	.1096922
#2	1.373790	.0067617	.0058363	123.2275	.1153867	.1079324
#3	1.382329	.0065880	.0058116	124.9129	.1153901	.1084840

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1968026	162.6816	9.988946	46.34640	.1500387	-.009810
Stddev	.0029033	1.0843	.059306	.50321	.0001465	.000563
%RSD	1.475257	.6665406	.5937166	1.085752	.0976313	5.742167
#1	.2000520	162.6144	10.00702	46.27458	.1501591	-.009810
#2	.1958923	161.6324	9.92271	45.88296	.1498756	-.010373
#3	.1944635	163.7979	10.03711	46.88166	.1500813	-.009246

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7366034	.1800392	2.243810	9.548111	F 12.32884	-.320270
Stddev	.0185376	.0093428	.008912	.032636	.01054	.000673
%RSD	2.516627	5.189318	.3971984	.3418009	.0854935	.2100852
#1	.7576589	.1885497	2.245655	9.582383	12.32413	-.320981
#2	.7294132	.1700423	2.251656	9.544546	12.32147	-.320188
#3	.7227380	.1815256	2.234120	9.517404	12.34091	-.319642

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5055-10A Acquired: 01/03/2025 18:18:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKT3A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0099867	2.739370	13.39699	.0463066	.9184622	.1374144
Stddev	.0005625	.008297	.11438	.0009102	.0089663	.0010046
%RSD	5.632573	.3028762	.8537398	1.965568	.9762345	.7310588
#1	.0105944	2.745320	13.46261	.0466109	.9106459	.1381061
#2	.0094843	2.729892	13.26492	.0452833	.9164904	.1362621
#3	.0098813	2.742897	13.46343	.0470257	.9282504	.1378749

Elem	Li6707
Units	ppm
Avg	.1070597
Stddev	.0037053
%RSD	3.460933
#1	.1028742
#2	.1083840
#3	.1099208

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2166.905	22067.41	2155.835	1619.721	1886.786
Stddev	6.269	91.46	24.496	2.551	8.630
%RSD	.2892861	.4144506	1.136263	.1574724	.4574092
#1	2159.668	22006.73	2140.803	1616.898	1877.207
#2	2170.384	22172.61	2184.102	1621.859	1889.194
#3	2170.662	22022.90	2142.602	1620.405	1893.956

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5057-07A Acquired: 01/03/2025 18:22:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL09A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2676900	.0086468	2.421584	.2210818	.0417537	93.74932
Stddev	.0009782	.0036743	.004446	.0021387	.0032489	.64422
%RSD	.3654073	42.49325	.1835982	.9673933	7.781086	.6871696
#1	.2669364	.0044165	2.425766	.2216949	.0381212	93.67936
#2	.2687954	.0110424	2.422073	.2228470	.0427583	93.14294
#3	.2673383	.0104816	2.416914	.2187035	.0443816	94.42566

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.488594	.0082974	.0084005	29.50822	.1761252	.1083480
Stddev	.005181	.0001869	.0000645	.02611	.0013929	.0006829
%RSD	.3480623	2.253049	.7673224	.0884923	.7908470	.6302508
#1	1.482643	.0081449	.0084477	29.53735	.1769409	.1091334
#2	1.491030	.0082413	.0083271	29.48692	.1745169	.1080148
#3	1.492108	.0085060	.0084268	29.50040	.1769177	.1078956

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4816541	191.2981	7.842377	19.11161	.1719383	-.010821
Stddev	.0038425	1.1166	.046176	.15879	.0004807	.001333
%RSD	.7977808	.5837169	.5887994	.8308332	.2795913	12.31593
#1	.4811442	190.7923	7.832593	18.94712	.1721095	-.010853
#2	.4857262	190.5239	7.801877	19.12372	.1723100	-.012138
#3	.4780920	192.5782	7.892661	19.26400	.1713954	-.009473

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5304474	.2206738	4.332801	8.212160	F 12.21451	-.407365
Stddev	.0232185	.0070866	.030561	.054322	.02972	.001182
%RSD	4.377156	3.211338	.7053501	.6614833	.2432809	.2902152
#1	.5557132	.2196536	4.329257	8.235828	12.22664	-.407034
#2	.5100474	.2282152	4.304167	8.250633	12.23624	-.406384
#3	.5255815	.2141526	4.364981	8.150020	12.18065	-.408678

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5057-07A Acquired: 01/03/2025 18:22:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL09A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0103485	1.475567	15.30265	.1468286	.8083392	-.061959
Stddev	.0006398	.006509	.07246	.0004506	.0093341	.000025
%RSD	6.182017	.4410880	.4734901	.3068747	1.154720	.0397406
#1	.0106267	1.482629	15.30035	.1472266	.8093729	-.061931
#2	.0108021	1.469810	15.23136	.1469198	.7985313	-.061970
#3	.0096168	1.474262	15.37622	.1463394	.8171134	-.061977

Elem	Li6707
Units	ppm
Avg	.0898059
Stddev	.0011327
%RSD	1.261283
#1	.0897678
#2	.0886926
#3	.0909571

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2163.162	21909.55	2131.840	1627.322	1999.753
Stddev	1.970	54.10	9.831	11.362	4.718
%RSD	.0910692	.2469079	.4611550	.6982228	.2359418
#1	2160.889	21929.91	2135.971	1634.460	1994.457
#2	2164.363	21950.50	2138.932	1633.287	2003.507
#3	2164.236	21848.22	2120.618	1614.219	2001.296

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5058-03A Acquired: 01/03/2025 18:26:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL82A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0558406	.0529357	.1941714	.0227640	.0203571	40.35612	.3526558
Stddev	.0025820	.0017622	.0051255	.0090991	.0003390	.05011	.0022058
%RSD	4.623953	3.328858	2.639680	39.97156	1.665356	.1241763	.6254745
#1	.0528667	.0510412	.1964368	.0331566	.0207091	40.34526	.3505741
#2	.0571433	.0545258	.1977739	.0162299	.0203295	40.41078	.3524258
#3	.0575117	.0532401	.1883036	.0189055	.0200328	40.31234	.3549676

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0036416	.0028948	758.7136	.0609540	.1101739	.2751299	126.8830
Stddev	.0000263	.0001082	2.1484	.0011967	.0009122	.0039790	.5151
%RSD	.7226723	3.738642	.2831671	1.963300	.8279791	1.446206	.4059386
#1	.0036647	.0029859	758.4969	.0617811	.1097424	.2727138	126.6222
#2	.0036129	.0027752	760.9622	.0595817	.1095574	.2797223	127.4763
#3	.0036470	.0029235	756.6818	.0614990	.1112218	.2729537	126.5505

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.457630	214.3894	.1162354	-.008440	1.215312	.0935076	.5287077
Stddev	.054765	1.2519	.0008195	.000648	.008917	.0121607	.0016440
%RSD	.5790526	.5839202	.7050254	7.675706	.7336975	13.00508	.3109470
#1	9.457801	213.8171	.1152914	-.008650	1.217141	.1075131	.5271130
#2	9.512309	215.8251	.1167641	-.008956	1.205622	.0856281	.5286132
#3	9.402780	213.5260	.1166507	-.007713	1.223172	.0873817	.5303969

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.094332	4.572697	-.237145	.0054699	.9561302	11.01352	.0150057
Stddev	.090500	.014576	.001357	.0010389	.0030413	.02868	.0027137
%RSD	1.776476	.3187539	.5722253	18.99258	.3180849	.2604264	18.08428
#1	5.015231	4.589060	-.235580	.0043333	.9526564	10.98432	.0152876
#2	5.193022	4.561103	-.237992	.0057059	.9574209	11.04165	.0121621
#3	5.074744	4.567928	-.237863	.0063704	.9583133	11.01459	.0175674

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5058-03A Acquired: 01/03/2025 18:26:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL82A Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8009106	.6879200	.0835866
Stddev	.0035008	.0007088	.0023520
%RSD	.4371016	.1030379	2.813831
#1	.7982746	.6879984	.0840086
#2	.8048827	.6885863	.0810522
#3	.7995745	.6871752	.0856990

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1948.562	19916.07	1996.868	1448.021	1691.031
Stddev	6.280	94.07	6.220	8.886	6.396
%RSD	.3223077	.4723559	.3114856	.6136350	.3782362
#1	1941.348	19828.52	1991.712	1438.148	1683.686
#2	1952.806	19904.15	1995.116	1450.540	1695.372
#3	1951.533	20015.53	2003.776	1455.375	1694.036

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5060-01A Acquired: 01/03/2025 18:30:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR8A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1365967	.0329315	2.005718	.1407345	.0344281	74.57120
Stddev	.0071820	.0037008	.002320	.0067601	.0015910	.13482
%RSD	5.257848	11.23783	.1156792	4.803446	4.621279	.1807966
#1	.1375120	.0350195	2.008002	.1400239	.0327983	74.67557
#2	.1432773	.0286585	2.003363	.1478218	.0359772	74.41898
#3	.1290010	.0351163	2.005787	.1343577	.0345087	74.61906

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.663682	.0079780	.0089288	148.6051	.1463015	.1129507
Stddev	.001214	.0001456	.0001361	.2240	.0006806	.0002429
%RSD	.0729565	1.825562	1.524369	.1507086	.4652162	.2150481
#1	1.662894	.0078266	.0090839	148.7862	.1470751	.1130307
#2	1.665080	.0081171	.0088293	148.6744	.1460345	.1126779
#3	1.663072	.0079904	.0088733	148.3547	.1457949	.1131435

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3731486	159.3898	8.116606	36.46874	.2357177	-.009459
Stddev	.0081397	.1588	.012184	.09370	.0003793	.001139
%RSD	2.181345	.0996086	.1501156	.2569287	.1609357	12.03782
#1	.3700525	159.5529	8.121463	36.36155	.2354055	-.010718
#2	.3670114	159.3807	8.102743	36.50961	.2361399	-.008502
#3	.3823820	159.2357	8.125614	36.53506	.2356077	-.009157

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7684125	.1965375	5.014765	8.867838	F 15.90228	-.302406
Stddev	.0057402	.0075744	.014263	.230857	.02919	.004434
%RSD	.7470238	3.853917	.2844245	2.603309	.1835626	1.466128
#1	.7656750	.1973076	5.006616	9.092376	15.92556	-.305060
#2	.7750090	.1886075	5.006444	8.879997	15.86953	-.304869
#3	.7645534	.2036974	5.031234	8.631142	15.91175	-.297287

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5060-01A Acquired: 01/03/2025 18:30:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR8A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0131389	4.340601	14.72138	.0920475	.8184801	.2018342
Stddev	.0008639	.005891	.06508	.0008472	.0080306	.0010498
%RSD	6.575326	.1357094	.4421091	.9203835	.9811557	.5201147
#1	.0141295	4.343282	14.78490	.0918105	.8218982	.2024055
#2	.0127451	4.333846	14.72441	.0913441	.8093060	.2006227
#3	.0125420	4.344674	14.65483	.0929880	.8242361	.2024744

Elem	Li6707
Units	ppm
Avg	.1242403
Stddev	.0006500
%RSD	.5231476
#1	.1234927
#2	.1245572
#3	.1246711

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2185.326	22323.37	2195.461	1644.984	1955.870
Stddev	5.412	31.17	7.275	6.681	6.799
%RSD	.2476518	.1396331	.3313794	.4061656	.3476174
#1	2191.575	22356.70	2191.568	1652.623	1963.352
#2	2182.203	22318.47	2190.960	1642.099	1954.187
#3	2182.199	22294.94	2203.854	1640.229	1950.070

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5062-06A Acquired: 01/03/2025 18:33:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL02A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1275949	.0132576	.5589661	.0874636	.0356921	72.20383	.6557968
Stddev	.0024034	.0019814	.0027995	.0027085	.0057972	.43728	.0034674
%RSD	1.883583	14.94529	.5008310	3.096762	16.24215	.6056198	.5287346
#1	.1288861	.0119420	.5621162	.0896057	.0317071	72.65484	.6596714
#2	.1248220	.0122943	.5580193	.0844191	.0423426	71.78171	.6529856
#3	.1290767	.0155364	.5567629	.0883660	.0330266	72.17495	.6547335

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071140	.0042588	30.06795	.1095216	.0898053	.1843297	159.4235
Stddev	.0001890	.0000516	.13963	.0011860	.0007668	.0060091	.8732
%RSD	2.656750	1.212335	.4643812	1.082891	.8538272	3.259979	.5477407
#1	.0073270	.0043179	30.20827	.1107712	.0890159	.1791385	160.2231
#2	.0069666	.0042225	29.92902	.1093821	.0898526	.1909125	158.4917
#3	.0070483	.0042360	30.06657	.1084116	.0905473	.1829381	159.5557

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.619963	18.48105	.1569024	-.009211	.3913002	.1959906	.5410235
Stddev	.039636	.09679	.0001192	.000930	.0044484	.0095952	.0005904
%RSD	.5987337	.5237158	.0759694	10.09611	1.136812	4.895758	.1091302
#1	6.652941	18.58525	.1567656	-.010161	.3941512	.2058945	.5417038
#2	6.575991	18.39395	.1569582	-.009168	.3861744	.1953401	.5407217
#3	6.630959	18.46395	.1569835	-.008303	.3935748	.1867371	.5406449

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.290717	4.090448	-.332955	.0071653	2.447784	12.87330	.0309828
Stddev	.220928	.009201	.002082	.0003799	.007862	.11645	.0013641
%RSD	4.175771	.2249364	.6254361	5.301898	.3211716	.9045529	4.402729
#1	5.076808	4.085527	-.334091	.0072140	2.446743	13.00137	.0319326
#2	5.277291	4.084754	-.330551	.0075185	2.440495	12.84475	.0315960
#3	5.518052	4.101063	-.334222	.0067634	2.456114	12.77378	.0294197

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5062-06A Acquired: 01/03/2025 18:33:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL02A Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.011778	-.069834	.0717410
Stddev	.004159	.001153	.0019869
%RSD	.4110564	1.651229	2.769528
#1	1.016540	-.070751	.0738162
#2	1.008856	-.068539	.0715508
#3	1.009939	-.070211	.0698561

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2141.349	21844.63	2122.701	1612.526	1953.002
Stddev	1.324	40.63	13.318	1.988	3.310
%RSD	.0618447	.1859766	.6273929	.1232786	.1694682
#1	2141.476	21879.77	2107.732	1614.627	1953.096
#2	2142.605	21853.98	2127.131	1610.675	1956.264
#3	2139.965	21800.15	2133.238	1612.275	1949.647

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5064-18A Acquired: 01/03/2025 18:37:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLB8A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1045663	.0116253	.2148865	.2248196	.0407899	71.48905	1.948837
Stddev	.0026732	.0042459	.0006546	.0070529	.0033528	.06710	.002427
%RSD	2.556425	36.52263	.3046168	3.137121	8.219720	.0938611	.1245452
#1	.1052209	.0096922	.2153828	.2219103	.0434420	71.55486	1.948860
#2	.1016266	.0086900	.2151321	.2196868	.0419064	71.49155	1.951253
#3	.1068513	.0164938	.2141446	.2328617	.0370213	71.42073	1.946399

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057756	.0048312	36.11597	.1118362	.1273105	.1018188	197.6928
Stddev	.0001088	.0000949	.08714	.0006704	.0004252	.0056679	.2781
%RSD	1.884409	1.963417	.2412809	.5994489	.3340051	5.566601	.1406893
#1	.0056575	.0047262	36.16581	.1121907	.1268348	.1068696	197.9952
#2	.0057974	.0049107	36.16676	.1122550	.1274433	.0956890	197.6353
#3	.0058719	.0048569	36.01535	.1110630	.1276535	.1028979	197.4479

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.63150	26.71567	.1773798	-.010189	.9820761	.1937796	.4657971
Stddev	.02827	.06020	.0010025	.000670	.0200295	.0100843	.0030136
%RSD	.1517157	.2253276	.5651437	6.578868	2.039506	5.204011	.6469691
#1	18.66412	26.74416	.1774040	-.010252	.9617501	.1840558	.4633777
#2	18.61629	26.64652	.1763655	-.010826	1.001795	.1930936	.4648408
#3	18.61410	26.75635	.1783700	-.009490	.982683	.2041894	.4691728

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.399720	6.165026	-.425299	.0075624	.5698250	14.18957	.0066564
Stddev	.063719	.018218	.004508	.0002789	.0039307	.09723	.0014931
%RSD	.9956578	.2955102	1.060034	3.687637	.6898148	.6851951	22.43099
#1	6.417387	6.145134	-.421105	.0073218	.5664087	14.13616	.0082564
#2	6.452742	6.180900	-.430067	.0074973	.5741211	14.13075	.0053001
#3	6.329032	6.169044	-.424726	.0078680	.5689452	14.30179	.0064128

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5064-18A Acquired: 01/03/2025 18:37:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLB8A Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.9460944	-.061694	.1279289
Stddev	.0071940	.000517	.0011871
%RSD	.7603899	.8379113	.9279315
#1	.9461434	-.062283	.1268555
#2	.9532637	-.061317	.1292038
#3	.9388760	-.061482	.1277273

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2141.147	21832.47	2131.366	1612.323	1980.940
Stddev	2.519	32.15	15.487	9.159	3.164
%RSD	.1176308	.1472725	.7266084	.5680886	.1597368
#1	2143.901	21868.65	2144.161	1621.126	1984.572
#2	2140.579	21807.17	2135.789	1612.998	1979.473
#3	2138.961	21821.58	2114.150	1602.844	1978.776

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5071-01A Acquired: 01/03/2025 18:41:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKX5A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0674158	.0431048	.3946338	.0893787	.0226643	56.34634
Stddev	.0062006	.0027675	.0029344	.0022513	.0029706	.22364
%RSD	9.197610	6.420450	.7435711	2.518785	13.10676	.3969031
#1	.0627676	.0418606	.3940063	.0914931	.0243231	56.46532
#2	.0650236	.0411777	.3920638	.0870119	.0192348	56.48535
#3	.0744562	.0462760	.3978311	.0896310	.0244349	56.08836

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7098668	.0051304	.0031991	237.9530	.0950761	.0798798
Stddev	.0014529	.0001656	.0001220	1.4307	.0007592	.0006013
%RSD	.2046770	3.228217	3.812169	.6012736	.7984922	.7527146
#1	.7109593	.0049763	.0030605	238.9877	.0959211	.0794091
#2	.7104232	.0053055	.0032471	238.5511	.0944515	.0796733
#3	.7082179	.0051093	.0032898	236.3203	.0948558	.0805571

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2252441	117.2304	2.800479	94.42742	.0961866	-.007495
Stddev	.0027511	.5627	.011781	.29342	.0013787	.001187
%RSD	1.221386	.4799526	.4206647	.3107390	1.433336	15.83849
#1	.2252376	117.4133	2.798218	94.64724	.0976343	-.008202
#2	.2279984	117.6788	2.813227	94.54080	.0948893	-.008158
#3	.2224962	116.5990	2.789993	94.09423	.0960360	-.006125

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7910462	.1375836	1.395450	5.780830	F 12.62099	-.232702
Stddev	.0110885	.0065768	.002694	.086398	.01684	.002797
%RSD	1.401753	4.780242	.1930829	1.494558	.1334112	1.201962
#1	.8006082	.1417093	1.396052	5.689123	12.60404	-.232773
#2	.7936396	.1299991	1.392506	5.860698	12.63772	-.235463
#3	.7788908	.1410424	1.397793	5.792668	12.62120	-.229871

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5071-01A Acquired: 01/03/2025 18:41:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKX5A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0069192	1.771929	11.32331	.0210057	.9324837	.1419732
Stddev	.0008954	.001527	.05690	.0014977	.0038391	.0003782
%RSD	12.94009	.0861976	.5024839	7.130053	.4117127	.2663570
#1	.0067222	1.772093	11.33825	.0222774	.9315866	.1423987
#2	.0061387	1.770326	11.37124	.0213849	.9291725	.1416756
#3	.0078966	1.773368	11.26043	.0193549	.9366919	.1418453

Elem	Li6707
Units	ppm
Avg	.1066760
Stddev	.0025920
%RSD	2.429807
#1	.1040820
#2	.1066800
#3	.1092660

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2167.315	22287.11	2184.775	1620.843	1868.950
Stddev	4.662	118.73	11.187	5.271	2.567
%RSD	.2150952	.5327136	.5120456	.3251950	.1373630
#1	2166.694	22168.65	2176.293	1617.505	1869.206
#2	2172.255	22286.60	2180.579	1626.920	1871.380
#3	2162.994	22406.10	2197.454	1618.105	1866.265

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5079-10A Acquired: 01/03/2025 18:45:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLF8A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0936532	.0244486	.2947225	.1282310	.0357691	70.68400
Stddev	.0060370	.0052727	.0037389	.0035007	.0034264	.07457
%RSD	6.446149	21.56668	1.268629	2.729963	9.579125	.1054933
#1	.0993189	.0195953	.2913348	.1260321	.0347472	70.75404
#2	.0873032	.0236915	.2987342	.1322679	.0395901	70.60561
#3	.0943373	.0300590	.2940984	.1263931	.0329699	70.69236

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.090600	.0058995	.0047341	67.42659	.1160083	.1012561
Stddev	.004067	.0001581	.0000841	.12147	.0010755	.0006111
%RSD	.3728703	2.679532	1.775692	.1801571	.9270537	.6035010
#1	1.093217	.0060009	.0046966	67.42292	.1172084	.1008779
#2	1.085915	.0059802	.0046753	67.30699	.1151319	.1019611
#3	1.092667	.0057173	.0048304	67.54985	.1156845	.1009293

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6158446	171.7084	11.90326	28.95253	.1671677	-.012088
Stddev	.0014282	.1986	.03254	.09606	.0010067	.000316
%RSD	.2319145	.1156853	.2734124	.3317738	.6022185	2.610558
#1	.6169208	171.9268	11.88942	29.04340	.1663357	-.011891
#2	.6163887	171.6597	11.87992	28.85201	.1668808	-.012452
#3	.6142243	171.5386	11.94043	28.96216	.1682868	-.011920

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5979054	.1614578	1.540732	7.910802	F 12.86687	-.331441
Stddev	.0087129	.0087684	.009033	.084583	.00480	.003305
%RSD	1.457240	5.430760	.5862874	1.069212	.0373303	.9973063
#1	.5934132	.1703853	1.531757	7.954729	12.86197	-.335146
#2	.5923552	.1611303	1.549822	7.964384	12.86706	-.330382
#3	.6079476	.1528577	1.540616	7.813293	12.87157	-.328795

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5079-10A Acquired: 01/03/2025 18:45:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLF8A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0080433	1.561578	10.80364	.0177687	.7725521	-.012378
Stddev	.0008844	.005249	.08678	.0013132	.0005420	.000319
%RSD	10.99493	.3361656	.8032761	7.390594	.0701517	2.574096
#1	.0090206	1.566453	10.90157	.0162573	.7731082	-.012078
#2	.0072983	1.562260	10.77308	.0186307	.7720255	-.012712
#3	.0078109	1.556021	10.73627	.0184180	.7725227	-.012344

Elem	Li6707
Units	ppm
Avg	.1054532
Stddev	.0049473
%RSD	4.691428
#1	.1007939
#2	.1049204
#3	.1106453

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2303.133	23653.20	2315.627	1732.998	1936.335
Stddev	3.411	29.62	18.031	9.451	1.835
%RSD	.1481050	.1252423	.7786743	.5453644	.0947613
#1	2301.921	23687.18	2295.396	1742.097	1934.367
#2	2306.984	23632.75	2321.482	1723.230	1937.999
#3	2300.493	23639.68	2330.003	1733.666	1936.639

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5080-10A Acquired: 01/03/2025 18:49:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLE8A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6055313	.0184892	4.572661	.2108755	.0441629	78.00541
Stddev	.0035671	.0007401	.007686	.0052022	.0040155	.38449
%RSD	.5890911	4.002747	.1680767	2.466955	9.092371	.4928999
#1	.6050349	.0192634	4.566575	.2060727	.0398956	77.72606
#2	.6022384	.0184155	4.570110	.2101524	.0447260	77.84624
#3	.6093206	.0177888	4.581298	.2164015	.0478671	78.44392

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.054784	.0072336	.0114716	89.02845	.3549410	.1109825
Stddev	.009995	.0001097	.0002366	.28422	.0003759	.0002764
%RSD	.3271913	1.516857	2.062818	.3192413	.1058956	.2490189
#1	3.046605	.0073519	.0116283	88.72406	.3548051	.1112491
#2	3.065925	.0071351	.0115870	89.07439	.3546520	.1106973
#3	3.051821	.0072139	.0111994	89.28690	.3553659	.1110010

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5937783	184.0767	9.999528	30.42500	.2087261	-.008826
Stddev	.0086887	.9723	.045909	.07252	.0015156	.000458
%RSD	1.463288	.5282175	.4591162	.2383410	.7261035	5.193517
#1	.5909932	183.1991	9.949977	30.35438	.2087843	-.009351
#2	.6035181	183.9091	10.00799	30.42137	.2071823	-.008507
#3	.5868237	185.1220	10.04062	30.49927	.2102118	-.008619

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7359248	.1939673	3.188015	11.24076	F 17.08480	-.343198
Stddev	.0062928	.0123424	.013430	.11896	.02754	.007762
%RSD	.8550886	6.363124	.4212728	1.058321	.1611969	2.261625
#1	.7427418	.2004185	3.200733	11.19907	17.10390	-.351127
#2	.7303379	.1797362	3.173971	11.14826	17.05323	-.342851
#3	.7346946	.2017471	3.189342	11.37496	17.09727	-.335615

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5080-10A Acquired: 01/03/2025 18:49:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLE8A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0116874	3.715372	8.686527	.2918974	1.185040	.1097657
Stddev	.0006735	.011647	.048653	.0012377	.007348	.0007841
%RSD	5.763031	.3134909	.5601017	.4240363	.6200921	.7143399
#1	.0109764	3.714588	8.709330	.2926165	1.178979	.1091376
#2	.0117697	3.704136	8.719591	.2926075	1.182927	.1095150
#3	.0123160	3.727391	8.630660	.2904681	1.193213	.1106445

Elem	Li6707
Units	ppm
Avg	.1342035
Stddev	.0021756
%RSD	1.621113
#1	.1319919
#2	.1342773
#3	.1363412

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2095.721	21425.93	2085.681	1571.634	1857.653
Stddev	6.130	48.65	8.556	9.793	2.973
%RSD	.2924893	.2270588	.4102327	.6231133	.1600519
#1	2088.671	21402.71	2078.388	1567.742	1854.248
#2	2099.794	21481.84	2083.555	1582.775	1859.738
#3	2098.698	21393.24	2095.099	1564.386	1858.972

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5081-05A Acquired: 01/03/2025 18:53:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLG4A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1356618	.0283169	1.685781	.1407651	.0356229	75.43017
Stddev	.0056486	.0019846	.007342	.0055774	.0022692	.08793
%RSD	4.163763	7.008501	.4354979	3.962168	6.370041	.1165655
#1	.1412522	.0278559	1.681979	.1362799	.0377216	75.39468
#2	.1357763	.0266034	1.694243	.1390053	.0332150	75.36553
#3	.1299567	.0304914	1.681119	.1470101	.0359322	75.53029

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.439254	.0177058	.0087278	324.8150	.3265548	.1254636
Stddev	.008795	.0002882	.0000300	1.2966	.0008211	.0008948
%RSD	.6111012	1.627704	.3431709	.3991840	.2514420	.7132174
#1	1.435932	.0174125	.0087041	324.2793	.3265316	.1255917
#2	1.432604	.0177164	.0087614	323.8721	.3257456	.1262875
#3	1.449227	.0179886	.0087177	326.2937	.3273873	.1245116

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7494402	173.9417	10.10977	114.7542	.2505964	-.012298
Stddev	.0119505	.1649	.01040	.4478	.0009534	.001064
%RSD	1.594589	.0947756	.1028984	.3901898	.3804672	8.651519
#1	.7525484	173.7956	10.09973	114.8278	.2508302	-.013069
#2	.7595295	173.9091	10.10909	114.2742	.2495479	-.011084
#3	.7362427	174.1205	10.12050	115.1606	.2514113	-.012740

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9366742	.5027780	2.506945	9.783585	F 19.48902	-.331170
Stddev	.0136654	.0075054	.010042	.195637	.03641	.003280
%RSD	1.458932	1.492785	.4005701	1.999649	.1868006	.9905017
#1	.9523297	.5107706	2.497154	9.622628	19.45515	-.327956
#2	.9305564	.4958800	2.517221	10.00134	19.48440	-.331041
#3	.9271366	.5016835	2.506459	9.72679	19.52752	-.334513

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5081-05A Acquired: 01/03/2025 18:53:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLG4A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0142002	3.851695	10.88725	.1084053	.8840628	.2644530
Stddev	.0009301	.010793	.09231	.0030614	.0046396	.0013117
%RSD	6.549604	.2802177	.8478947	2.824037	.5248038	.4960148
#1	.0151626	3.845793	10.81892	.1053507	.8823183	.2643250
#2	.0141318	3.864153	10.85058	.1083917	.8805484	.2632100
#3	.0133062	3.845141	10.99227	.1114735	.8893218	.2658241

Elem	Li6707
Units	ppm
Avg	.1452996
Stddev	.0026463
%RSD	1.821269
#1	.1469556
#2	.1466956
#3	.1422476

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2188.647	22432.20	2205.501	1637.155	1786.511
Stddev	2.115	92.32	7.989	11.386	1.583
%RSD	.0966443	.4115705	.3622248	.6954819	.0886147
#1	2190.872	22337.36	2204.309	1630.841	1787.826
#2	2186.661	22437.45	2214.019	1630.325	1784.754
#3	2188.409	22521.79	2198.176	1650.299	1786.953

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5082-06A Acquired: 01/03/2025 18:56:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLL6A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3875869	.0243280	1.607542	.0789943	.0342933	66.08076	1.356367
Stddev	.0030818	.0042226	.003939	.0008535	.0016474	.34783	.010152
%RSD	.7951323	17.35711	.2450231	1.080456	4.803926	.5263731	.7484540
#1	.3892392	.0194524	1.605748	.0782492	.0328802	65.68849	1.356978
#2	.3840313	.0267252	1.604820	.0799255	.0338969	66.35160	1.345925
#3	.3894903	.0268065	1.612059	.0788083	.0361027	66.20219	1.366200

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0060917	.0062775	72.71188	.1903615	.0923574	.3418033	159.0722
Stddev	.0000827	.0000754	.13622	.0013567	.0001140	.0092462	.4640
%RSD	1.357425	1.200499	.1873439	.7126763	.1233773	2.705112	.2916695
#1	.0060406	.0062405	72.76490	.1900714	.0923297	.3443465	158.7762
#2	.0061871	.0062277	72.55713	.1918397	.0922599	.3315517	158.8335
#3	.0060476	.0063642	72.81363	.1891733	.0924827	.3495117	159.6069

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.18920	22.15113	.1447546	-.009447	.6172035	.1687372	.9534425
Stddev	.01185	.14356	.0009720	.000842	.0190623	.0084586	.0030776
%RSD	.1058720	.6480784	.6714677	8.915004	3.088501	5.012857	.3227906
#1	11.18593	21.99959	.1455480	-.010385	.5955590	.1733211	.9509955
#2	11.17934	22.16874	.1436704	-.008754	.6314914	.1589762	.9568978
#3	11.20234	22.28507	.1450455	-.009204	.6245600	.1739145	.9524343

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.370864	9.729567	-.329669	.0126366	2.052871	11.86659	.0565984
Stddev	.107346	.015243	.004399	.0006427	.002412	.12025	.0007731
%RSD	1.998673	.1566699	1.334356	5.086421	.1174828	1.013335	1.365863
#1	5.269881	9.726269	-.326649	.0132670	2.050189	11.74236	.0559224
#2	5.483605	9.716242	-.327641	.0126606	2.053563	11.87499	.0574412
#3	5.359105	9.746189	-.334716	.0119822	2.054861	11.98242	.0564316

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5082-06A Acquired: 01/03/2025 18:56:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLL6A Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7535669	.1457745	.0869689
Stddev	.0061146	.0003822	.0036455
%RSD	.8114204	.2621891	4.191714
#1	.7476346	.1457538	.0873946
#2	.7532174	.1461667	.0831292
#3	.7598488	.1454031	.0903828

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2108.338	21503.34	2090.913	1586.174	2001.653
Stddev	5.673	65.65	15.477	8.324	5.721
%RSD	.2690587	.3053128	.7401824	.5247589	.2858383
#1	2105.992	21444.69	2107.437	1590.168	2003.738
#2	2114.807	21491.07	2088.546	1576.607	2006.039
#3	2104.214	21574.26	2076.757	1591.748	1995.181

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5087-07A Acquired: 01/03/2025 19:00:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLY4A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1044606	.0178398	.4709080	.2053807	.0371750	79.71665
Stddev	.0040754	.0079143	.0015288	.0039142	.0023033	.10296
%RSD	3.901393	44.36321	.3246450	1.905847	6.195845	.1291574
#1	.1074117	.0195862	.4726367	.2085154	.0378445	79.61112
#2	.0998105	.0091982	.4697340	.2066332	.0346111	79.72200
#3	.1061594	.0247351	.4703533	.2009935	.0390694	79.81683

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.588619	.0177253	.0042678	63.22223	.1294650	.1024073
Stddev	.008075	.0002553	.0001917	.26245	.0009267	.0010199
%RSD	.3119304	1.440104	4.492123	.4151293	.7158159	.9959277
#1	2.579782	.0178553	.0040465	63.06524	.1294351	.1012330
#2	2.595613	.0174312	.0043789	63.52522	.1304063	.1030711
#3	2.590462	.0178894	.0043781	63.07623	.1285535	.1029179

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.000192	171.7981	8.996143	27.38468	.1712979	-.009938
Stddev	.010188	.2678	.028543	.09424	.0021524	.000784
%RSD	1.018652	.1558694	.3172817	.3441177	1.256545	7.890606
#1	.996147	171.5569	8.964032	27.27675	.1688182	-.009256
#2	1.011781	171.7510	9.018632	27.45061	.1723924	-.009762
#3	.992646	172.0863	9.005763	27.42668	.1726832	-.010795

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4772944	.1728754	2.032048	6.302361	F 10.20162	-.340776
Stddev	.0020913	.0120757	.012617	.081462	.04209	.002793
%RSD	.4381660	6.985216	.6209172	1.292570	.4125722	.8194987
#1	.4793227	.1619692	2.032256	6.330413	10.15302	-.337992
#2	.4774152	.1708044	2.019328	6.210579	10.22621	-.343578
#3	.4751452	.1858527	2.044560	6.366090	10.22563	-.340757

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5087-07A Acquired: 01/03/2025 19:00:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLY4A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0121582	3.803854	11.66962	.0222719	.7382023	-.020803
Stddev	.0007031	.018352	.08672	.0017682	.0037756	.000507
%RSD	5.782944	.4824523	.7430945	7.938973	.5114569	2.438298
#1	.0114007	3.783287	11.62177	.0220717	.7348398	-.020297
#2	.0122839	3.818557	11.61738	.0206123	.7422867	-.020801
#3	.0127899	3.809718	11.76972	.0241316	.7374802	-.021311

Elem	Li6707
Units	ppm
Avg	.1338628
Stddev	.0007900
%RSD	.5901571
#1	.1338754
#2	.1330667
#3	.1346465

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2320.794	23679.33	2317.926	1735.808	1936.568
Stddev	3.969	76.97	6.156	2.938	6.396
%RSD	.1710404	.3250635	.2655774	.1692507	.3302562
#1	2325.138	23643.50	2320.908	1732.574	1943.486
#2	2317.356	23626.80	2322.022	1736.538	1930.871
#3	2319.888	23767.68	2310.847	1738.312	1935.347

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5092-04A Acquired: 01/03/2025 19:04:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLP3A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1102534	.0216678	1.434752	.1910398	.0346209	84.46723	.9316496
Stddev	.0047979	.0028436	.005588	.0060082	.0015576	.38553	.0063779
%RSD	4.351697	13.12358	.3894815	3.144991	4.499011	.4564224	.6845762
#1	.1157826	.0220791	1.436751	.1846791	.0348854	84.02978	.9244508
#2	.1077894	.0186409	1.428440	.1966189	.0329480	84.75742	.9365943
#3	.1071881	.0242833	1.439067	.1918214	.0360293	84.61449	.9339037

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071821	.0054332	125.2496	.1348671	.1089964	.1738050	174.2336
Stddev	.0000942	.0000739	.2196	.0009490	.0009982	.0114218	.7202
%RSD	1.311265	1.360981	.1753065	.7036442	.9157826	6.571598	.4133626
#1	.0072773	.0054051	125.0304	.1359436	.1089694	.1827559	173.4130
#2	.0071801	.0055170	125.2489	.1341516	.1100077	.1777182	174.5268
#3	.0070890	.0053773	125.4696	.1345062	.1080119	.1609410	174.7610

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.856279	33.69719	.1315693	-.011942	.6634010	.1989859	2.332385
Stddev	.024875	.21306	.0007075	.000893	.0154679	.0063359	.001533
%RSD	.3628037	.6322810	.5377307	7.480399	2.331606	3.184094	.0657208
#1	6.828632	33.55191	.1321189	-.011022	.6802391	.1932069	2.333374
#2	6.863359	33.59788	.1307710	-.012806	.6601408	.1979900	2.333161
#3	6.876846	33.94177	.1318179	-.011997	.6498230	.2057607	2.330619

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.034503	4.927864	-.364423	.0087555	1.408124	11.94028	.0346488
Stddev	.031641	.006341	.002632	.0004459	.002672	.08783	.0005868
%RSD	.6284742	.1286848	.7221639	5.092371	.1897413	.7355445	1.693531
#1	5.050763	4.933173	-.364900	.0091720	1.406034	11.84948	.0341173
#2	5.054707	4.920842	-.361586	.0082851	1.407202	11.94656	.0352785
#3	4.998038	4.929578	-.366784	.0088094	1.411134	12.02480	.0345507

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5092-04A Acquired: 01/03/2025 19:04:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLP3A Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.9592156	.0286845	.0794901
Stddev	.0030434	.0005388	.0034486
%RSD	.3172771	1.878495	4.338356
#1	.9562121	.0292555	.0770271
#2	.9622973	.0281850	.0834314
#3	.9591376	.0286130	.0780120

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2137.292	21698.07	2106.549	1596.084	1959.952
Stddev	5.165	100.42	8.802	5.835	3.536
%RSD	.2416446	.4628049	.4178369	.3655826	.1804173
#1	2135.246	21631.78	2116.196	1589.425	1955.905
#2	2133.463	21648.83	2104.494	1598.529	1961.510
#3	2143.166	21813.61	2098.956	1600.299	1962.442

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5125-05A Acquired: 01/03/2025 19:08:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM94A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3244857	.0139587	3.863316	.2588766	.0614950	56.79902
Stddev	.0009060	.0043659	.001963	.0062280	.0028474	.17475
%RSD	.2792228	31.27741	.0508044	2.405771	4.630329	.3076702
#1	.3241442	.0148271	3.863112	.2598470	.0589738	56.97234
#2	.3255129	.0092238	3.861464	.2522205	.0645833	56.62287
#3	.3238000	.0178251	3.865373	.2645625	.0609279	56.80186

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.716641	.0083981	.0087980	187.5360	.1866135	.1100826
Stddev	.012914	.0001695	.0002548	.8639	.0015512	.0005775
%RSD	.7523064	2.018623	2.896200	.4606456	.8312113	.5245666
#1	1.703275	.0082733	.0087719	186.6236	.1877869	.1097853
#2	1.729051	.0083298	.0090648	188.3414	.1848549	.1097144
#3	1.717598	.0085911	.0085572	187.6431	.1871987	.1107482

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.742197	222.5614	5.812003	41.11340	.2217296	-.014005
Stddev	.013461	.0689	.014626	.10943	.0013617	.001062
%RSD	.7726179	.0309541	.2516497	.2661756	.6141251	7.584895
#1	1.745868	222.4876	5.828642	41.02009	.2203233	-.014734
#2	1.753441	222.5725	5.806185	41.08624	.2218237	-.012786
#3	1.727281	222.6240	5.801181	41.23385	.2230418	-.014494

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.226045	.2167055	8.113691	6.420531	F 14.75952	-.414809
Stddev	.021012	.0130331	.057859	.127129	.01896	.007891
%RSD	1.713769	6.014208	.7131073	1.980040	.1284668	1.902341
#1	1.217942	.2146586	8.129888	6.423858	14.77420	-.418445
#2	1.249901	.2048169	8.049459	6.545964	14.73811	-.405755
#3	1.210291	.2306409	8.161726	6.291771	14.76623	-.420227

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5125-05A Acquired: 01/03/2025 19:08:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM94A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0140225	5.216396	9.030288	.5434328	1.292075	.2986175
Stddev	.0012515	.011309	.106855	.0027469	.003947	.0011129
%RSD	8.925023	.2167884	1.183297	.5054772	.3055102	.3726834
#1	.0154328	5.219808	9.068895	.5429798	1.287867	.2988064
#2	.0135902	5.203775	8.909495	.5409406	1.295696	.2974223
#3	.0130444	5.225606	9.112474	.5463781	1.292661	.2996239

Elem	Li6707
Units	ppm
Avg	.0673833
Stddev	.0034597
%RSD	5.134343
#1	.0666859
#2	.0643254
#3	.0711385

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2030.224	20723.04	2051.749	1526.051	1941.230
Stddev	2.631	56.02	7.154	.480	1.681
%RSD	.1295865	.2703116	.3486879	.0314410	.0866179
#1	2027.850	20659.13	2049.265	1525.703	1940.083
#2	2029.770	20763.61	2059.815	1526.598	1943.160
#3	2033.052	20746.39	2046.169	1525.852	1940.448

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5131-05A Acquired: 01/03/2025 19:12:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMM6A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6420652	.0230882	4.420671	.2473499	.0518236	65.84083
Stddev	.0069391	.0025862	.007684	.0057176	.0034451	.04115
%RSD	1.080752	11.20125	.1738135	2.311529	6.647825	.0624963
#1	.6492824	.0231664	4.419341	.2518208	.0490297	65.79841
#2	.6354424	.0256343	4.413740	.2493213	.0556730	65.84351
#3	.6414707	.0204638	4.428933	.2409074	.0507681	65.88058

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.529288	.0075383	.0256891	246.5040	.2353713	.1468463
Stddev	.008336	.0001570	.0000288	.9170	.0005339	.0003987
%RSD	.3295771	2.082460	.1120048	.3720104	.2268244	.2715345
#1	2.536723	.0077141	.0256629	247.1467	.2351648	.1471407
#2	2.520276	.0074887	.0256844	245.4539	.2359776	.1470056
#3	2.530866	.0074121	.0257199	246.9115	.2349716	.1463925

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.584577	229.2962	15.39986	49.79190	.3952672	-.008157
Stddev	.008521	.2412	.01027	.20386	.0010692	.000508
%RSD	.5377327	.1051727	.0667126	.4094162	.2705048	6.232507
#1	1.584151	229.5600	15.40391	49.56063	.3957703	-.007734
#2	1.576277	229.2415	15.40749	49.86952	.3940393	-.008721
#3	1.593303	229.0871	15.38818	49.94554	.3959921	-.008017

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.304035	.1934484	10.39483	8.145675	F 18.47318	-.466521
Stddev	.020922	.0104460	.04251	.091712	.02916	.005361
%RSD	1.604426	5.399903	.4089124	1.125901	.1578636	1.149095
#1	1.315803	.1960313	10.37950	8.224111	18.48122	-.465740
#2	1.279879	.2023606	10.44288	8.168076	18.44084	-.461593
#3	1.316423	.1819532	10.36213	8.044837	18.49748	-.472229

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5131-05A Acquired: 01/03/2025 19:12:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMM6A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0237140	3.827072	10.22172	.2610109	.9408134	.3918585
Stddev	.0005165	.009134	.07198	.0019211	.0048680	.0008171
%RSD	2.177834	.2386751	.7041838	.7360274	.5174222	.2085249
#1	.0232824	3.832840	10.26855	.2624147	.9410537	.3927849
#2	.0242862	3.816540	10.13884	.2617965	.9358298	.3912402
#3	.0235735	3.831835	10.25777	.2588215	.9455569	.3915503

Elem	Li6707
Units	ppm
Avg	.0862916
Stddev	.0009035
%RSD	1.047081
#1	.0871383
#2	.0853403
#3	.0863963

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2116.325	21530.90	2140.337	1572.659	1904.685
Stddev	1.890	91.80	11.079	8.095	5.451
%RSD	.0892832	.4263595	.5176513	.5147450	.2861860
#1	2117.577	21620.86	2137.188	1577.900	1900.357
#2	2117.246	21437.36	2152.651	1563.335	1910.807
#3	2114.151	21534.47	2131.174	1576.741	1902.891

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-06 Acquired: 01/03/2025 19:15:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1831944	-.019296	5.014699	.0788453	.0544126	57.55990
Stddev	.0118273	.004744	.059075	.0029555	.0066479	.14754
%RSD	6.456125	24.58736	1.178037	3.748543	12.21762	.2563172
#1	.1750792	-.022941	4.968147	.0815623	.0588746	57.42989
#2	.1777393	-.013932	5.081155	.0756983	.0467721	57.52957
#3	.1967647	-.021016	4.994795	.0792752	.0575910	57.72025

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.000001	.0068067	.0087229	199.3923	.1860544	.1165736
Stddev	.003050	.0000193	.0002706	.3811	.0003698	.0014167
%RSD	.1525220	.2828978	3.101959	.1911222	.1987395	1.215282
#1	1.998533	.0068155	.0085337	199.0042	.1862181	.1150398
#2	2.003508	.0067847	.0090328	199.4067	.1863141	.1178332
#3	1.997962	.0068201	.0086020	199.7660	.1856311	.1168477

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6410103	190.4951	9.577617	45.23075	.2462158	-.008730
Stddev	.0072897	.1400	.014748	.31000	.0011672	.000624
%RSD	1.137216	.0734679	.1539838	.6853634	.4740561	7.143122
#1	.6447011	190.4611	9.577578	44.89791	.2448803	-.008629
#2	.6457165	190.3753	9.562889	45.51124	.2470410	-.009397
#3	.6326133	190.6489	9.592385	45.28310	.2467260	-.008163

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8660608	.1855651	3.018341	5.870831	F 15.17805	-.371802
Stddev	.0276087	.0064151	.018302	.245064	.17737	.005095
%RSD	3.187849	3.457049	.6063434	4.174262	1.168568	1.370360
#1	.8797344	.1784971	2.997268	6.121256	15.07333	-.371372
#2	.8841643	.1910190	3.030252	5.631505	15.38284	-.377098
#3	.8342838	.1871791	3.027503	5.859733	15.07799	-.366935

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-06 Acquired: 01/03/2025 19:15:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0143382	4.034086	5.330897	.6801707	1.005541	.3266179
Stddev	.0004017	.044586	.033329	.0090160	.000947	.0003655
%RSD	2.801940	1.105243	.6252083	1.325555	.0941898	.1119036
#1	.0146093	3.999655	5.328181	.6744064	1.005105	.3263707
#2	.0145286	4.084450	5.365501	.6905608	1.006627	.3270377
#3	.0138767	4.018154	5.299009	.6755450	1.004890	.3264452

Elem	Li6707
Units	ppm
Avg	.0885291
Stddev	.0018768
%RSD	2.119953
#1	.0891335
#2	.0864246
#3	.0900292

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2019.048	20811.33	2058.600	1538.080	1872.555
Stddev	16.214	153.24	8.977	5.240	19.081
%RSD	.8030518	.7363529	.4360541	.3407090	1.019008
#1	2032.219	20659.43	2051.728	1540.162	1886.697
#2	2000.939	20965.88	2055.315	1541.958	1850.851
#3	2023.985	20808.69	2068.756	1532.118	1880.116

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-07 Acquired: 01/03/2025 19:19:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2721438	-.076652	2.392462	.1965354	.0933521	49.09069
Stddev	.0038225	.003150	.008725	.0033170	.0039578	.11322
%RSD	1.404593	4.109760	.3646683	1.687720	4.239648	.2306425
#1	.2740373	-.074179	2.383386	.2001040	.0969584	48.97071
#2	.2746499	-.075579	2.393213	.1935466	.0939802	49.10570
#3	.2677441	-.080199	2.400786	.1959555	.0891179	49.19566

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.319266	.0080986	.0116621	280.5206	.1309546	.1224283
Stddev	.006150	.0002550	.0000104	.7108	.0013719	.0004159
%RSD	.2651626	3.149272	.0895424	.2533843	1.047646	.3397167
#1	2.326366	.0083028	.0116718	280.7211	.1303406	.1228329
#2	2.315587	.0078127	.0116510	279.7311	.1325263	.1224500
#3	2.315846	.0081803	.0116636	281.1096	.1299968	.1220019

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4624545	400.5209	14.62030	58.64919	.2330154	-.024112
Stddev	.0132124	.7021	.04025	.35859	.0002085	.000621
%RSD	2.857023	.1753007	.2752741	.6114225	.0894657	2.575152
#1	.4777070	400.3641	14.60668	58.44812	.2331256	-.024207
#2	.4545296	399.9104	14.58863	58.43625	.2331457	-.023449
#3	.4551269	401.2881	14.66559	59.06320	.2327750	-.024680

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.051816	.2023125	2.718805	5.069343	F 15.90156	-.876533
Stddev	.034574	.0013848	.010395	.066279	.03513	.008061
%RSD	3.287091	.6844760	.3823533	1.307452	.2209162	.9196423
#1	1.014439	.2029558	2.707126	5.072116	15.86133	-.867485
#2	1.058356	.2007231	2.727045	5.001721	15.91720	-.879161
#3	1.082653	.2032586	2.722245	5.134192	15.92616	-.882951

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-07 Acquired: 01/03/2025 19:19:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0224147	2.976785	3.916225	.2329141	.6963759	.0673483
Stddev	.0002794	.008615	.018256	.0017744	.0075461	.0010519
%RSD	1.246705	.2894205	.4661598	.7618466	1.083620	1.561892
#1	.0221193	2.986198	3.896423	.2341919	.7030495	.0685629
#2	.0224502	2.969291	3.919866	.2336623	.6881873	.0667486
#3	.0226748	2.974866	3.932385	.2308881	.6978911	.0667333

Elem	Li6707
Units	ppm
Avg	.0810184
Stddev	.0017222
%RSD	2.125736
#1	.0797417
#2	.0829772
#3	.0803362

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2061.336	21131.49	2085.146	1549.132	1884.632
Stddev	8.555	171.88	2.185	6.360	4.868
%RSD	.4150413	.8133878	.1047852	.4105740	.2582896
#1	2068.737	20983.47	2085.036	1544.874	1885.854
#2	2063.301	21091.01	2083.019	1546.079	1888.773
#3	2051.968	21320.01	2087.385	1556.444	1879.270

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCV104 Acquired: 01/03/2025 19:23:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV104 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.087542	4.956179	25.28618	4.999079	4.982099	408.4619	10.41676
Stddev	.007306	.014924	.02660	.005344	.022119	2.1276	.04267
%RSD	.1435985	.3011105	.1051834	.1069032	.4439636	.5208859	.4095904
#1	5.081868	4.944181	25.25625	4.994983	4.968743	406.0609	10.38131
#2	5.084973	4.951466	25.30711	4.997130	4.969924	409.2115	10.40485
#3	5.095785	4.972890	25.29519	5.005124	5.007630	410.1133	10.46411

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5260932	2.543808	416.2621	15.81694	2.553795	15.54632	413.4644
Stddev	.0008966	.000449	2.1847	.08538	.001069	.08582	1.6437
%RSD	.1704195	.0176538	.5248324	.5397920	.0418560	.5520259	.3975385
#1	.5254925	2.543602	414.5438	15.77859	2.552792	15.45516	411.7820
#2	.5256633	2.543500	415.5217	15.91477	2.553673	15.55824	413.5448
#3	.5271238	2.544324	418.7207	15.75747	2.554920	15.62555	415.0664

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.44618	411.0968	2.564317	1.280926	419.7942	2.580052	14.94727
Stddev	.06020	2.0392	.002506	.005680	2.8521	.024939	.12960
%RSD	.3897378	.4960349	.0977389	.4434144	.6793928	.9665980	.8670415
#1	15.37667	408.8732	2.561471	1.279524	417.1627	2.595021	14.83893
#2	15.48114	411.5378	2.565284	1.287175	419.3952	2.551263	15.09084
#3	15.48072	412.8794	2.566195	1.276078	422.8248	2.593873	14.91204

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	156.6631	5.041529	4.566706	4.972645	5.081372	5.174862	5.117885
Stddev	.8308	.015373	.004144	.013802	.008358	.010889	.012115
%RSD	.5303254	.3049187	.0907349	.2775489	.1644867	.2104202	.2367181
#1	156.0343	5.024745	4.565520	4.972183	5.075958	5.168593	5.109178
#2	156.3500	5.054925	4.563286	4.959080	5.077161	5.168558	5.112757
#3	157.6050	5.044916	4.571314	4.986671	5.090999	5.187436	5.131721

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCV104 Acquired: 01/03/2025 19:23:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV104 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	5.170353	4.917512	5.013810
Stddev	.019760	.029357	.028371
%RSD	.3821821	.5969818	.5658645
#1	5.161518	4.884732	4.988536
#2	5.156552	4.926425	5.008396
#3	5.192989	4.941379	5.044498

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1524.035	16551.81	1678.550	1136.547	1634.004
Stddev	.091	80.93	8.731	10.852	2.772
%RSD	.0059805	.4889404	.5201501	.9547833	.1696387
#1	1524.086	16632.29	1684.183	1148.118	1633.372
#2	1523.930	16470.44	1682.975	1126.597	1631.602
#3	1524.089	16552.68	1668.493	1134.928	1637.037

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCB104 Acquired: 01/03/2025 19:27:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB104 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020100	-.002652	.0024077	.0049582	-.000040	.0735298	-.004944
Stddev	.0026339	.002157	.0027236	.0083054	.002361	.0556264	.001925
%RSD	131.0378	81.33095	113.1205	167.5091	5873.772	75.65154	38.94411
#1	-.000480	-.004610	.0036063	-.000997	.002476	.1320313	-.005582
#2	.004768	-.000339	.0043263	.001425	-.002205	.0213121	-.006469
#3	.001742	-.003008	-.000710	.014446	-.000391	.0672460	-.002780

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000493	.0000108	-.052579	.0003286	-.000333	-.011125	.0242653
Stddev	.0000398	.0000790	.012193	.0006030	.000268	.007113	.0129248
%RSD	80.73092	729.3408	23.19010	183.5118	80.39799	63.93557	53.26441
#1	.0000847	-.000022	-.038723	-.000055	-.000071	-.016993	.0380508
#2	.0000062	.000101	-.061669	.001024	-.000322	-.013168	.0124209
#3	.0000571	-.000047	-.057346	.000017	-.000607	-.003214	.0223241

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043761	-.117474	-.000140	.0007001	.1050003	-.009107	.0008442
Stddev	.0009139	.067046	.001117	.0005937	.0192550	.010788	.0005052
%RSD	20.88295	57.07333	798.6326	84.80366	18.33800	118.4540	59.84241
#1	.0033236	-.103689	.000017	.0000235	.1247261	-.009508	.0014273
#2	.0048364	-.190342	.000890	.0009428	.1040211	-.019689	.0005376
#3	.0049683	-.058392	-.001327	.0011340	.0862536	.001875	.0005678

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3911145	-.001692	.0099518	.0001074	-.010772	-.002770	-.000508
Stddev	.2171316	.002981	.0013110	.0006924	.004590	.000695	.001747
%RSD	55.51613	176.1447	13.17339	644.4448	42.61025	25.09443	343.7487
#1	.6066822	.001039	.0113355	.0006778	-.012687	-.003557	-.001129
#2	.3942092	-.001244	.0097917	.0003074	-.014094	-.002242	-.001861
#3	.1724520	-.004872	.0087282	-.000663	-.005535	-.002509	.001465

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCB104 Acquired: 01/03/2025 19:27:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB104 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.008857	-.000337	.0042710
Stddev	.003929	.000077	.0024919
%RSD	44.35420	22.72321	58.34489
#1	-.012640	-.000392	.0069712
#2	-.009134	-.000249	.0037818
#3	-.004798	-.000369	.0020600

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1854.419	18978.95	1846.279	1407.942	2049.421
Stddev	3.827	30.76	15.956	2.830	3.364
%RSD	.2063853	.1620832	.8642432	.2009866	.1641230
#1	1850.757	19001.32	1861.277	1411.178	2045.638
#2	1854.109	18991.65	1829.512	1405.931	2050.549
#3	1858.392	18943.87	1848.050	1406.718	2052.075

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-08 Acquired: 01/03/2025 19:31:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3148031	-.010936	11.46569	.0912461	.0457756	65.88404
Stddev	.0098325	.002369	.01732	.0034966	.0002714	.31288
%RSD	3.123368	21.66543	.1510359	3.832094	.5929534	.4748938
#1	.3251497	-.008971	11.47871	.0950862	.0459804	65.64287
#2	.3136779	-.010269	11.47232	.0904063	.0454677	66.23759
#3	.3055816	-.013567	11.44604	.0882459	.0458786	65.77168

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.959841	.0074221	.0132880	395.9940	.1906727	.1589280
Stddev	.017382	.0002126	.0000311	1.0881	.0016124	.0001226
%RSD	.3504498	2.864710	.2343456	.2747709	.8456605	.0771453
#1	4.975290	.0074201	.0133162	396.2650	.1891983	.1590526
#2	4.963212	.0072106	.0132931	396.9209	.1923946	.1589239
#3	4.941021	.0076358	.0132546	394.7960	.1904251	.1588075

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8616319	206.9375	17.47669	45.21871	.2645322	-.007405
Stddev	.0110234	.7432	.07463	.21407	.0014697	.001188
%RSD	1.279368	.3591395	.4270475	.4734102	.5556046	16.03907
#1	.8726055	206.3511	17.46962	44.97707	.2650556	-.007973
#2	.8617311	207.7733	17.55461	45.38461	.2656687	-.008202
#3	.8505593	206.6882	17.40585	45.29446	.2628724	-.006040

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8716744	.2266496	5.277286	12.22598	F 17.47592	-.411085
Stddev	.0073601	.0146150	.007891	.25305	.04008	.004646
%RSD	.8443583	6.448268	.1495249	2.069755	.2293589	1.130186
#1	.8792829	.2370841	5.268467	12.45802	17.46783	-.416284
#2	.8645909	.2099459	5.283681	11.95617	17.51942	-.407341
#3	.8711493	.2329187	5.279709	12.26376	17.44049	-.409628

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-08 Acquired: 01/03/2025 19:31:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0141671	5.466608	4.699641	.3548262	.9326194	.3419938
Stddev	.0002854	.010739	.024777	.0013590	.0060512	.0017708
%RSD	2.014432	.1964496	.5272121	.3830148	.6488355	.5177791
#1	.0141481	5.474458	4.724772	.3550169	.9266379	.3407846
#2	.0144615	5.470996	4.698915	.3560798	.9387379	.3440263
#3	.0138917	5.454369	4.675234	.3533819	.9324824	.3411705

Elem	Li6707
Units	ppm
Avg	.0853967
Stddev	.0008676
%RSD	1.015923
#1	.0859107
#2	.0858845
#3	.0843951

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2139.519	21867.80	2166.878	1606.959	1846.842
Stddev	1.813	61.14	4.434	6.590	.220
%RSD	.0847372	.2795794	.2046080	.4100815	.0119282
#1	2141.590	21918.54	2161.877	1614.413	1847.049
#2	2138.753	21799.92	2168.428	1604.553	1846.611
#3	2138.215	21884.92	2170.327	1601.909	1846.867

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-09 Acquired: 01/03/2025 19:35:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3532392	-.020362	8.231576	.0929794	.0465412	67.22282
Stddev	.0043891	.004285	.011326	.0039131	.0026631	.07595
%RSD	1.242533	21.04223	.1375918	4.208595	5.721951	.1129833
#1	.3509657	-.017563	8.234853	.0937650	.0493417	67.14057
#2	.3582987	-.018230	8.218973	.0887330	.0462409	67.23759
#3	.3504533	-.025295	8.240902	.0964400	.0440410	67.29030

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.757878	.0074608	.0138810	436.5313	.1869201	.1634158
Stddev	.011813	.0002852	.0000245	1.3426	.0008850	.0006558
%RSD	.2482869	3.822846	.1762122	.3075535	.4734794	.4013287
#1	4.749931	.0077724	.0139022	435.3199	.1876271	.1626601
#2	4.752249	.0072127	.0138542	436.2992	.1872058	.1637500
#3	4.771453	.0073972	.0138866	437.9748	.1859276	.1638371

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.203949	215.7226	17.18202	45.64861	.2699707	-.009285
Stddev	.001959	.6388	.04162	.22627	.0027387	.001441
%RSD	.1627315	.2961347	.2422368	.4956676	1.014452	15.51509
#1	1.205741	215.1601	17.14410	45.42667	.2704233	-.008089
#2	1.204248	215.5906	17.17541	45.64022	.2670339	-.010884
#3	1.201857	216.4171	17.22655	45.87896	.2724550	-.008882

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9499926	.2233738	5.035504	10.95891	F 14.33752	-.433531
Stddev	.0191356	.0131338	.016709	.07261	.02865	.003244
%RSD	2.014291	5.879727	.3318306	.6625376	.1998405	.7482487
#1	.9719148	.2289616	5.018453	10.99245	14.36774	-.432154
#2	.9414264	.2083701	5.036209	11.00869	14.31075	-.431203
#3	.9366366	.2327896	5.051849	10.87560	14.33407	-.437236

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-09 Acquired: 01/03/2025 19:35:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0137338	4.112936	5.322613	.2188520	.8991224	.3850480
Stddev	.0007908	.009748	.020849	.0021423	.0019670	.0007755
%RSD	5.758123	.2370190	.3917077	.9788837	.2187723	.2013934
#1	.0131565	4.123777	5.345339	.2190524	.8973115	.3848239
#2	.0146352	4.104890	5.304370	.2208871	.8988404	.3844093
#3	.0134098	4.110142	5.318132	.2166166	.9012151	.3859109

Elem	Li6707
Units	ppm
Avg	.0906878
Stddev	.0046119
%RSD	5.085481
#1	.0952078
#2	.0859891
#3	.0908666

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2114.768	21735.21	2166.303	1598.459	1840.246
Stddev	.771	21.34	7.843	3.548	2.588
%RSD	.0364725	.0981795	.3620264	.2219855	.1406229
#1	2115.590	21739.37	2158.162	1600.964	1842.192
#2	2114.652	21712.10	2173.809	1600.015	1841.237
#3	2114.061	21754.17	2166.937	1594.398	1837.309

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-10 Acquired: 01/03/2025 19:38:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0676373	.0064586	1.965114	.0196543	.0279439	34.73714	.5889294
Stddev	.0076102	.0029790	.001450	.0038979	.0056140	.32495	.0059252
%RSD	11.25154	46.12481	.0737908	19.83246	20.09027	.9354528	1.006103
#1	.0720961	.0092755	1.964617	.0238270	.0239054	34.82560	.5922966
#2	.0588501	.0033404	1.963978	.0161066	.0343546	35.00870	.5924038
#3	.0719658	.0067601	1.966747	.0190294	.0255716	34.37712	.5820878

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039279	.0163357	676.9417	.2266446	.0849947	.2745682	117.0210
Stddev	.0001252	.0001788	6.5835	.0018460	.0001120	.0095818	1.2361
%RSD	3.188086	1.094697	.9725344	.8144955	.1317100	3.489777	1.056286
#1	.0039936	.0162290	678.8471	.2279287	.0850506	.2812374	117.3151
#2	.0040066	.0165422	682.3623	.2245291	.0850677	.2635882	118.0835
#3	.0037835	.0162360	669.6156	.2274761	.0848658	.2788789	115.6644

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.322934	346.4269	.1606434	-.005381	1.453789	.1351311	2.845066
Stddev	.049990	3.0719	.0013088	.001015	.011899	.0162315	.019392
%RSD	.9391493	.8867303	.8147382	18.86236	.8184560	12.01167	.6815931
#1	5.346972	347.4979	.1605547	-.005395	1.441902	.1483651	2.854878
#2	5.356364	348.8199	.1619944	-.004359	1.465700	.1170203	2.822729
#3	5.265465	342.9629	.1593812	-.006389	1.453766	.1400079	2.857591

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.905257	9.294927	-.207650	.0102698	9.264105	3.670527	.0578213
Stddev	.267081	.016535	.003032	.0003102	.018748	.018855	.0024801
%RSD	6.839011	.1778914	1.460222	3.020468	.2023747	.5136798	4.289299
#1	3.830206	9.313600	-.210842	.0106227	9.269038	3.689458	.0597019
#2	4.201835	9.282143	-.204807	.0101468	9.279893	3.670375	.0550106
#3	3.683731	9.289038	-.207302	.0100400	9.243383	3.651749	.0587514

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-10 Acquired: 01/03/2025 19:38:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5612697	.2319926	.0468865
Stddev	.0122513	.0021238	.0034383
%RSD	2.182791	.9154385	7.333264
#1	.5625328	.2314816	.0432832
#2	.5728406	.2343253	.0501319
#3	.5484357	.2301710	.0472444

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1813.510	18778.62	1887.192	1362.160	1693.705
Stddev	2.026	52.00	17.187	4.321	3.731
%RSD	.1117220	.2769171	.9107029	.3172189	.2202723
#1	1815.327	18727.76	1876.824	1357.603	1694.602
#2	1811.325	18776.41	1877.721	1366.198	1689.607
#3	1813.879	18831.69	1907.031	1362.680	1696.905

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-11 Acquired: 01/03/2025 19:42:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0988285	-.006948	2.488129	.0497294	.0452866	50.36180
Stddev	.0068187	.004807	.006801	.0101836	.0031997	.11807
%RSD	6.899557	69.18829	.2733522	20.47794	7.065506	.2344533
#1	.0992198	-.001405	2.495119	.0436748	.0434197	50.49024
#2	.1054432	-.009981	2.487733	.0440269	.0489813	50.33719
#3	.0918226	-.009457	2.481534	.0614866	.0434589	50.25798

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9636194	.0054526	.0195412	553.6206	.3864508	.1043953
Stddev	.0043568	.0001457	.0000861	3.3374	.0005665	.0008711
%RSD	.4521262	2.672129	.4407709	.6028260	.1465914	.8344607
#1	.9658170	.0054726	.0194612	555.7021	.3862369	.1035607
#2	.9664397	.0052979	.0196324	555.3885	.3860225	.1043264
#3	.9586015	.0055872	.0195300	549.7712	.3870932	.1052988

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3697956	159.3140	6.862706	286.7733	.2326522	-.009343
Stddev	.0101560	.5459	.039399	1.2653	.0014978	.002307
%RSD	2.746371	.3426642	.5741027	.4412119	.6438018	24.69403
#1	.3792727	159.5687	6.884360	287.2070	.2321098	-.009981
#2	.3590752	159.6861	6.886528	287.7647	.2343456	-.006784
#3	.3710389	158.6873	6.817229	285.3482	.2315011	-.011264

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.120864	.1555352	3.671621	5.024721	F 12.06635	-.308807
Stddev	.011100	.0149262	.022976	.239843	.02147	.009555
%RSD	.9902994	9.596655	.6257854	4.773259	.1779136	3.094108
#1	1.130000	.1634488	3.683415	4.748499	12.08965	-.316779
#2	1.108511	.1383186	3.686307	5.180176	12.06201	-.311426
#3	1.124081	.1648382	3.645143	5.145487	12.04738	-.298215

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-11 Acquired: 01/03/2025 19:42:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0149970	10.28478	4.809450	.0911160	.7798744	.1861376
Stddev	.0008155	.03847	.052663	.0024661	.0088579	.0013019
%RSD	5.437553	.3740640	1.094982	2.706587	1.135804	.6994012
#1	.0147366	10.30888	4.847404	.0889195	.7871839	.1871844
#2	.0159108	10.30504	4.831619	.0937837	.7824156	.1865486
#3	.0143435	10.24041	4.749327	.0906449	.7700237	.1846799

Elem	Li6707
Units	ppm
Avg	.0692538
Stddev	.0038819
%RSD	5.605268
#1	.0649718
#2	.0702470
#3	.0725426

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1848.564	19264.95	1918.847	1401.869	1697.541
Stddev	.940	13.27	24.587	7.223	2.207
%RSD	.0508583	.0688818	1.281363	.5152597	.1300109
#1	1849.257	19251.05	1904.018	1398.288	1695.223
#2	1847.494	19277.48	1905.294	1397.137	1699.617
#3	1848.941	19266.31	1947.228	1410.183	1697.782

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-12 Acquired: 01/03/2025 19:46:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1145384	-.012466	2.994337	.0598399	.0435281	47.72729
Stddev	.0049045	.001891	.004091	.0087330	.0051041	.25786
%RSD	4.281923	15.16499	.1366333	14.59394	11.72598	.5402738
#1	.1095009	-.010489	2.998901	.0647798	.0488397	47.61671
#2	.1192980	-.014256	2.993111	.0497566	.0386606	47.54316
#3	.1148164	-.012654	2.990998	.0649834	.0430840	48.02199

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8842836	.0063763	.0180925	478.5755	.1985855	.0998964
Stddev	.0032161	.0000767	.0000320	1.5116	.0004793	.0003726
%RSD	.3636984	1.202653	.1770290	.3158617	.2413699	.3729782
#1	.8877686	.0063846	.0181253	477.6546	.1982075	.0995878
#2	.8814300	.0062958	.0180911	477.7519	.1991246	.1003103
#3	.8836522	.0064485	.0180613	480.3201	.1984244	.0997910

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4346327	174.2389	6.579385	229.6043	.2490490	-.009720
Stddev	.0056670	.6327	.041888	1.3999	.0005533	.000632
%RSD	1.303867	.3631078	.6366563	.6097072	.2221867	6.506424
#1	.4290255	173.8319	6.555145	228.6171	.2496874	-.009013
#2	.4403577	173.9170	6.555257	228.9894	.2487531	-.010231
#3	.4345148	174.9678	6.627753	231.2064	.2487065	-.009916

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.119385	.1606493	4.227176	5.442648	F 10.38159	-.330694
Stddev	.021332	.0073861	.023962	.139710	.00760	.004119
%RSD	1.905651	4.597629	.5668589	2.566941	.0732375	1.245431
#1	1.101232	.1690569	4.223898	5.371237	10.38788	-.326366
#2	1.114043	.1552052	4.205022	5.603630	10.38376	-.331152
#3	1.142880	.1576859	4.252608	5.353078	10.37314	-.334565

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-12 Acquired: 01/03/2025 19:46:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0147780	8.750338	4.454114	.0996955	.7449775	.2117785
Stddev	.0009887	.026596	.032729	.0021954	.0048585	.0006100
%RSD	6.690348	.3039449	.7347988	2.202074	.6521652	.2880524
#1	.0158805	8.777459	4.420402	.1019244	.7403185	.2117933
#2	.0139699	8.749257	4.456176	.0975353	.7446005	.2111611
#3	.0144838	8.724299	4.485762	.0996267	.7500135	.2123809

Elem	Li6707
Units	ppm
Avg	.0681535
Stddev	.0013379
%RSD	1.962999
#1	.0696496
#2	.0677391
#3	.0670719

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1894.009	19575.24	1955.409	1426.112	1758.272
Stddev	3.909	9.92	12.820	5.377	3.737
%RSD	.2063624	.0506846	.6555990	.3770109	.2125263
#1	1898.485	19568.42	1967.411	1425.120	1762.576
#2	1891.270	19586.62	1956.911	1431.916	1755.857
#3	1892.271	19570.69	1941.904	1421.301	1756.382

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-13 Acquired: 01/03/2025 19:50:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMF2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2045530	-.014430	2.184633	.1111083	.0436852	71.75269
Stddev	.0075017	.003386	.009160	.0003506	.0003168	.15360
%RSD	3.667362	23.46642	.4192856	.3155511	.7252464	.2140756
#1	.2102399	-.014492	2.174066	.1114684	.0440489	71.85860
#2	.1960509	-.011014	2.189527	.1110885	.0434691	71.82294
#3	.2073682	-.017785	2.190307	.1107680	.0435376	71.57652

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.642913	.0072991	.0076661	220.4744	.1533445	.1478147
Stddev	.000585	.0001436	.0002305	.5430	.0015115	.0007083
%RSD	.0356172	1.966956	3.006541	.2463030	.9857026	.4791504
#1	1.642898	.0073295	.0077080	220.4705	.1525561	.1485518
#2	1.643506	.0074250	.0074176	221.0194	.1523902	.1471393
#3	1.642336	.0071428	.0078728	219.9333	.1550872	.1477529

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5048733	217.3634	23.51210	31.01841	.1909560	-.009195
Stddev	.0016797	.4272	.07765	.17569	.0007103	.001551
%RSD	.3326897	.1965472	.3302406	.5663928	.3719766	16.86605
#1	.5039535	217.0424	23.50253	31.12281	.1904948	-.009345
#2	.5068119	217.8483	23.59409	31.11685	.1905991	-.007575
#3	.5038544	217.1995	23.43968	30.81558	.1917739	-.010666

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6758330	.1959952	1.483779	9.248624	F 12.24292	-.464855
Stddev	.0106549	.0124036	.009822	.012418	.03443	.000453
%RSD	1.576562	6.328513	.6619698	.1342685	.2812614	.0973649
#1	.6812417	.1908014	1.481305	9.260341	12.20435	-.464340
#2	.6635585	.2101514	1.475431	9.235607	12.27055	-.465035
#3	.6826987	.1870328	1.494602	9.249924	12.25387	-.465190

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-13 Acquired: 01/03/2025 19:50:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMF2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0131673	3.238813	4.344290	.1930161	.8096846	.1453083
Stddev	.0004682	.012715	.010640	.0020646	.0055951	.0004381
%RSD	3.555706	.3925740	.2449215	1.069649	.6910245	.3014796
#1	.0135178	3.246493	4.350963	.1909773	.8034507	.1456668
#2	.0126356	3.224137	4.349888	.1951056	.8142710	.1448200
#3	.0133485	3.245809	4.332020	.1929653	.8113321	.1454381

Elem	Li6707
Units	ppm
Avg	.0779771
Stddev	.0018761
%RSD	2.405924
#1	.0763750
#2	.0775153
#3	.0800409

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2235.913	23115.31	2247.331	1697.559	1898.503
Stddev	9.340	121.67	12.765	7.041	6.424
%RSD	.4177280	.5263419	.5680040	.4147788	.3383754
#1	2234.396	23223.19	2251.598	1705.418	1900.198
#2	2245.918	22983.43	2232.978	1695.435	1903.910
#3	2227.424	23139.31	2257.415	1691.825	1891.402

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-14 Acquired: 01/03/2025 19:53:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMF3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2232329	-.019156	2.766645	.1123153	.0501820	75.65609
Stddev	.0070098	.002013	.006701	.0054527	.0004357	.51240
%RSD	3.140138	10.50819	.2422001	4.854816	.8681954	.6772727
#1	.2278575	-.016968	2.760077	.1111580	.0501990	75.07514
#2	.2266737	-.019571	2.766385	.1182537	.0506089	75.84950
#3	.2151676	-.020929	2.773471	.1075341	.0497381	76.04363

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.119817	.0078801	.0093637	357.6657	.1934110	.1582029
Stddev	.012088	.0002820	.0000751	1.7671	.0010737	.0009834
%RSD	.5702184	3.578418	.8023618	.4940697	.5551459	.6215744
#1	2.110012	.0077949	.0092771	355.8733	.1933464	.1575802
#2	2.116118	.0076506	.0094025	357.7172	.1945155	.1593365
#3	2.133322	.0081949	.0094115	359.4064	.1923710	.1576919

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6414039	235.2366	23.00920	42.09372	.2316838	-.013449
Stddev	.0085159	1.6681	.15687	.39143	.0012205	.000853
%RSD	1.327698	.7091176	.6817578	.9298966	.5268035	6.344815
#1	.6322996	233.5744	22.85185	41.85609	.2303001	-.014407
#2	.6427382	235.2249	23.01018	41.87958	.2326075	-.013169
#3	.6491738	236.9106	23.16558	42.54550	.2321438	-.012771

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8431898	.1923102	2.020334	10.14348	F 12.98600	-.466177
Stddev	.0131320	.0036763	.000416	.04251	.02733	.005438
%RSD	1.557416	1.911664	.0205923	.4191297	.2104261	1.166600
#1	.8418970	.1950338	2.020463	10.11871	12.96127	-.459916
#2	.8307521	.1937684	2.020671	10.11915	12.98138	-.468886
#3	.8569204	.1881285	2.019869	10.19257	13.01534	-.469729

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-14 Acquired: 01/03/2025 19:53:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMF3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0136745	4.172048	5.296646	.1794179	.8571466	.3206353
Stddev	.0003500	.012213	.058676	.0009757	.0028464	.0022877
%RSD	2.559156	.2927374	1.107790	.5438057	.3320737	.7134808
#1	.0138884	4.157951	5.229165	.1783858	.8541406	.3180413
#2	.0132707	4.179430	5.325128	.1795429	.8598005	.3215000
#3	.0138645	4.178764	5.335643	.1803252	.8574988	.3223646

Elem	Li6707
Units	ppm
Avg	.0928467
Stddev	.0017024
%RSD	1.833579
#1	.0925280
#2	.0946859
#3	.0913261

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2209.945	22818.58	2234.893	1669.169	1821.020
Stddev	1.296	29.35	17.601	4.889	2.839
%RSD	.0586428	.1286446	.7875466	.2928731	.1558961
#1	2210.610	22800.52	2255.216	1663.536	1824.299
#2	2208.452	22802.77	2224.836	1671.672	1819.373
#3	2210.774	22852.45	2224.626	1672.300	1819.389

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-15 Acquired: 01/03/2025 19:57:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMM8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1491596	-.018991	3.712530	.0669501	.0454061	48.06619
Stddev	.0033504	.002870	.012658	.0048197	.0009911	.17203
%RSD	2.246166	15.11068	.3409431	7.198919	2.182747	.3579097
#1	.1527740	-.017226	3.705233	.0625670	.0443902	47.87729
#2	.1485470	-.017446	3.705212	.0721116	.0454576	48.21386
#3	.1461578	-.022303	3.727146	.0661716	.0463704	48.10742

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.559148	.0070181	.0061983	194.7696	.1377218	.1058434
Stddev	.002936	.0001413	.0000900	.2582	.0014216	.0004050
%RSD	.1883228	2.013027	1.451494	.1325468	1.032250	.3826651
#1	1.557057	.0071309	.0062207	194.5586	.1374381	.1054710
#2	1.562505	.0068596	.0060993	195.0575	.1392640	.1057845
#3	1.557883	.0070636	.0062750	194.6927	.1364635	.1062746

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5639375	170.0310	5.035024	48.05549	.1808642	-.011352
Stddev	.0022057	.7598	.010159	.23875	.0012130	.001516
%RSD	.3911165	.4468783	.2017701	.4968276	.6706589	13.35206
#1	.5627500	169.2194	5.025850	47.88543	.1794823	-.013031
#2	.5625799	170.7254	5.045943	48.32844	.1813574	-.010939
#3	.5664824	170.1482	5.033278	47.95260	.1817529	-.010085

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.064107	.1838784	2.533912	7.041226	F 10.46448	-.322876
Stddev	.005573	.0164000	.005861	.222303	.03493	.002274
%RSD	.5236993	8.918908	.2313045	3.157162	.3338159	.7042972
#1	1.065814	.1994926	2.527972	6.842580	10.46180	-.325239
#2	1.068626	.1667920	2.534073	7.281344	10.43096	-.322686
#3	1.057880	.1853506	2.539691	6.999753	10.50067	-.320703

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-15 Acquired: 01/03/2025 19:57:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMM8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0134899	3.746153	4.857478	.2281885	1.103772	.2611628
Stddev	.0006319	.012136	.030567	.0011121	.005986	.0014568
%RSD	4.684540	.3239642	.6292716	.4873751	.5422941	.5578173
#1	.0130360	3.738838	4.891269	.2273503	1.101559	.2598450
#2	.0142116	3.739459	4.849410	.2277652	1.099207	.2627272
#3	.0132220	3.760162	4.831754	.2294502	1.110549	.2609162

Elem	Li6707
Units	ppm
Avg	.0813808
Stddev	.0018427
%RSD	2.264297
#1	.0792566
#2	.0825507
#3	.0823350

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2004.617	20538.44	2018.049	1506.399	1900.498
Stddev	4.250	102.23	8.860	8.902	4.640
%RSD	.2120062	.4977457	.4390253	.5909496	.2441717
#1	2008.212	20637.51	2013.362	1516.579	1903.662
#2	2005.712	20433.33	2012.517	1502.542	1902.661
#3	1999.927	20544.49	2028.267	1500.075	1895.171

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-01 Acquired: 01/03/2025 20:01:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1453575	-.021147	2.448606	.0677787	.0474326	50.49703
Stddev	.0056890	.005864	.008386	.0081622	.0019330	.13632
%RSD	3.913805	27.72856	.3424743	12.04243	4.075324	.2699579
#1	.1486846	-.025525	2.442900	.0681155	.0459112	50.65033
#2	.1485993	-.023430	2.458234	.0594533	.0496078	50.38944
#3	.1387886	-.014485	2.444684	.0757673	.0467788	50.45131

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.111538	.0081745	.0193665	352.3535	.1376277	.1058349
Stddev	.007335	.0000555	.0001531	1.0949	.0005913	.0006224
%RSD	.6599382	.6793347	.7906315	.3107298	.4296064	.5880603
#1	1.117184	.0081544	.0193173	353.6013	.1371164	.1065489
#2	1.114183	.0082373	.0195382	351.9053	.1382752	.1054075
#3	1.103247	.0081318	.0192440	351.5537	.1374915	.1055482

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5236672	191.5158	4.950985	173.5044	.2148850	-.013227
Stddev	.0054734	.5109	.029644	.8577	.0005296	.000897
%RSD	1.045197	.2667592	.5987486	.4943537	.2464570	6.784193
#1	.5288693	191.9091	4.983342	174.4288	.2146319	-.014244
#2	.5179579	190.9384	4.925135	172.7343	.2145294	-.012893
#3	.5241743	191.7000	4.944479	173.3501	.2154936	-.012545

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.092816	.1737302	4.674969	4.892376	F 11.05218	-.328655
Stddev	.013250	.0142594	.007758	.199833	.00727	.002542
%RSD	.3237317	8.207777	.1659469	4.084573	.0657550	.7735802
#1	4.108050	.1823829	4.682632	4.683437	11.04782	-.330784
#2	4.083979	.1815356	4.667119	5.081648	11.06057	-.325840
#3	4.086418	.1572722	4.675157	4.912043	11.04815	-.329340

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-01 Acquired: 01/03/2025 20:01:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0174076	8.512161	4.124570	.0773357	.7841326	.1514034
Stddev	.0005284	.015614	.010859	.0045704	.0021449	.0007472
%RSD	3.035247	.1834297	.2632641	5.909774	.2735328	.4935467
#1	.0175181	8.509456	4.133674	.0734401	.7856254	.1521944
#2	.0168327	8.528951	4.127486	.0762003	.7816748	.1507093
#3	.0178719	8.498077	4.112552	.0823668	.7850978	.1513064

Elem	Li6707
Units	ppm
Avg	.0533632
Stddev	.0038497
%RSD	7.214245
#1	.0501834
#2	.0522629
#3	.0576434

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1879.721	19225.16	1915.630	1398.487	1790.892
Stddev	3.019	47.01	2.929	4.652	1.549
%RSD	.1606126	.2445203	.1528889	.3326175	.0864846
#1	1879.880	19250.58	1912.750	1396.583	1789.560
#2	1882.657	19253.99	1915.536	1403.789	1792.592
#3	1876.625	19170.91	1918.605	1395.090	1790.525

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-02 Acquired: 01/03/2025 20:05:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0899428	-.022200	1.395677	.0780298	.0439424	45.21155	.6240197
Stddev	.0017551	.004669	.001442	.0050470	.0030223	.06798	.0008934
%RSD	1.951338	21.03382	.1033236	6.468055	6.877897	.1503667	.1431685
#1	.0883347	-.019566	1.397118	.0812579	.0466410	45.28408	.6250395
#2	.0896787	-.027591	1.395679	.0806179	.0406767	45.14928	.6233748
#3	.0918150	-.019442	1.394233	.0722138	.0445093	45.20130	.6236448

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0056178	.0107502	277.0941	.0973464	.0986150	.3287599	197.9113
Stddev	.0000905	.0002216	.4383	.0003444	.0004271	.0120079	.2951
%RSD	1.610941	2.060996	.1581798	.3537825	.4331233	3.652481	.1490910
#1	.0056751	.0107467	277.3652	.0977149	.0982382	.3373613	197.9473
#2	.0055134	.0109735	276.5884	.0972915	.0985280	.3150410	197.5999
#3	.0056648	.0105304	277.3286	.0970327	.0990790	.3338773	198.1867

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.337436	63.09909	.1622192	-.012488	.7818217	.1716150	5.013087
Stddev	.019163	.22003	.0019715	.001637	.0087505	.0092118	.059874
%RSD	.3023777	.3487009	1.215305	13.10723	1.119247	5.367705	1.194361
#1	6.349072	63.25466	.1612137	-.014310	.7735981	.1694178	5.035080
#2	6.315318	62.84735	.1609533	-.012012	.7808490	.1817267	5.058856
#3	6.347917	63.19525	.1644907	-.011142	.7910179	.1637004	4.945327

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.109121	6.335932	-.401950	.0110163	2.550279	3.459925	.0567541
Stddev	.096992	.011791	.002989	.0003119	.010631	.028553	.0024295
%RSD	2.360413	.1861001	.7435665	2.830858	.4168648	.8252544	4.280777
#1	4.195339	6.347670	-.405147	.0110267	2.557280	3.490754	.0595001
#2	4.127920	6.324089	-.401478	.0113229	2.555512	3.434388	.0548838
#3	4.004106	6.336038	-.399226	.0106994	2.538046	3.454634	.0558785

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-02 Acquired: 01/03/2025 20:05:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	2.084193	.2136316	.0717500
Stddev	.004739	.0001910	.0037834
%RSD	.2273930	.0893824	5.272976
#1	2.085338	.2134154	.0674405
#2	2.078987	.2137773	.0745253
#3	2.088256	.2137019	.0732841

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1985.064	20308.52	1984.136	1485.959	1869.232
Stddev	8.215	165.12	8.709	16.280	6.770
%RSD	.4138554	.8130604	.4389280	1.095603	.3621562
#1	1979.066	20295.10	1977.065	1485.690	1865.012
#2	1981.697	20150.52	1993.864	1469.816	1865.645
#3	1994.427	20479.95	1981.478	1502.373	1877.041

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-03 Acquired: 01/03/2025 20:09:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0909709	-.001110	1.078544	.0498071	.0306662	54.32070
Stddev	.0028340	.004988	.004200	.0066472	.0020922	.16112
%RSD	3.115231	449.3306	.3894498	13.34578	6.822678	.2966133
#1	.0889492	-.002119	1.077896	.0502742	.0311493	54.43811
#2	.0942102	.004305	1.074704	.0429388	.0324746	54.13701
#3	.0897533	-.005516	1.083030	.0562084	.0283746	54.38697

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9573859	.0056944	.0038990	F 847.5452	.0876081	.1310858
Stddev	.0032275	.0001709	.0000540	2.5073	.0010642	.0007137
%RSD	.3371181	3.001580	1.384990	.2958337	1.214686	.5444605
#1	.9540410	.0058177	.0039556	845.4613	.0888277	.1305512
#2	.9576351	.0057663	.0038935	846.8465	.0871282	.1318963
#3	.9604816	.0054993	.0038480	850.3277	.0868685	.1308100

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1508537	172.7848	16.16147	129.8063	.1664583	-.011468
Stddev	.0059131	.2730	.02850	.6728	.0010195	.000275
%RSD	3.919789	.1580060	.1763482	.5182833	.6124603	2.396038
#1	.1499011	173.0050	16.17647	130.4458	.1663283	-.011784
#2	.1571853	172.4793	16.12860	129.1046	.1655100	-.011323
#3	.1454747	172.8700	16.17933	129.8685	.1675366	-.011296

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.136554	.1160273	.8092444	10.15544	5.565157	-.297572
Stddev	.013617	.0176017	.0021293	.02900	.025550	.003248
%RSD	1.198070	15.17031	.2631264	.2855488	.4591079	1.091399
#1	1.146727	.1078461	.8104700	10.16296	5.540942	-.300771
#2	1.121085	.1362306	.8104776	10.12342	5.562669	-.297668
#3	1.141850	.1040051	.8067857	10.17993	5.591860	-.294278

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-03 Acquired: 01/03/2025 20:09:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0081975	2.650534	4.976087	.0457571	.3673716	.6124838
Stddev	.0013645	.016170	.027588	.0009701	.0043124	.0007070
%RSD	16.64548	.6100777	.5544091	2.120178	1.173851	.1154276
#1	.0076103	2.635273	5.005721	.0460383	.3717182	.6127410
#2	.0097573	2.648848	4.951149	.0465556	.3630943	.6116843
#3	.0072249	2.667482	4.971391	.0446775	.3673022	.6130262

Elem	Li6707
Units	ppm
Avg	.1200709
Stddev	.0017394
%RSD	1.448667
#1	.1192419
#2	.1220697
#3	.1189010

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1960.886	20044.79	2017.429	1458.214	1712.231
Stddev	4.695	86.96	10.854	6.595	5.355
%RSD	.2394332	.4338036	.5380155	.4522481	.3127400
#1	1959.452	19986.38	2004.932	1457.001	1714.416
#2	1966.131	20003.27	2022.852	1452.311	1716.148
#3	1957.076	20144.72	2024.503	1465.332	1706.129

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-07 Acquired: 01/03/2025 20:12:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1004622	-.012281	1.677497	.0537959	.0329050	60.10910
Stddev	.0013419	.001928	.003592	.0077002	.0005270	.25557
%RSD	1.335695	15.69767	.2141462	14.31370	1.601662	.4251777
#1	.1007172	-.014448	1.678591	.0499803	.0334756	59.86701
#2	.1016582	-.010756	1.673485	.0487485	.0328030	60.37630
#3	.0990111	-.011639	1.680416	.0626588	.0324365	60.08400

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.014490	.0050944	.0089353	120.9768	.1271283	.0859712
Stddev	.000508	.0000417	.0000901	.2503	.0003834	.0006996
%RSD	.0500444	.8182374	1.008463	.2068999	.3015936	.8137794
#1	1.014633	.0051282	.0089558	120.7662	.1269221	.0866575
#2	1.014911	.0050479	.0088368	121.2535	.1275707	.0852590
#3	1.013926	.0051072	.0090134	120.9106	.1268921	.0859970

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2695950	132.4205	5.516784	39.86683	.1592231	-.008049
Stddev	.0035979	.5200	.016673	.25100	.0009392	.001033
%RSD	1.334539	.3927238	.3022274	.6295947	.5898517	12.83824
#1	.2677047	131.9774	5.507184	39.77935	.1601148	-.009042
#2	.2737439	132.9930	5.536036	40.14987	.1582427	-.008126
#3	.2673362	132.2910	5.507131	39.67128	.1593117	-.006979

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5562518	.1568508	2.310884	7.967561	F 14.93960	-.257184
Stddev	.0250188	.0046525	.004782	.266563	.03029	.001664
%RSD	4.497740	2.966193	.2069345	3.345605	.2027784	.6471841
#1	.5281801	.1550885	2.306454	8.171094	14.92032	-.258372
#2	.5643781	.1533368	2.315954	8.065760	14.92397	-.257899
#3	.5761972	.1621270	2.310245	7.665828	14.97452	-.255282

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-07 Acquired: 01/03/2025 20:12:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0130620	5.344675	6.651943	.0677840	1.036681	.0936606
Stddev	.0009860	.017438	.028044	.0012050	.007983	.0008519
%RSD	7.548864	.3262754	.4215862	1.777707	.7700053	.9095755
#1	.0139791	5.325601	6.668778	.0680721	1.034942	.0941469
#2	.0131879	5.348624	6.667481	.0664610	1.045390	.0941579
#3	.0120191	5.359801	6.619570	.0688187	1.029712	.0926769

Elem	Li6707
Units	ppm
Avg	.0639375
Stddev	.0007808
%RSD	1.221230
#1	.0640643
#2	.0646472
#3	.0631010

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1982.406	20296.77	1982.767	1490.864	1928.026
Stddev	7.716	13.04	12.673	2.576	6.550
%RSD	.3892007	.0642376	.6391414	.1728192	.3397445
#1	1984.797	20311.45	1975.156	1493.131	1931.621
#2	1988.644	20286.54	1975.749	1488.062	1931.991
#3	1973.779	20292.32	1997.396	1491.401	1920.465

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-08 Acquired: 01/03/2025 20:16:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1227935	-.016134	1.801565	.0689179	.0355012	70.47747
Stddev	.0020919	.003976	.007554	.0013080	.0041393	.24303
%RSD	1.703607	24.64637	.4193190	1.897922	11.65970	.3448393
#1	.1233648	-.012406	1.801125	.0674589	.0307351	70.38042
#2	.1204753	-.015675	1.809330	.0693093	.0375719	70.29796
#3	.1245404	-.020319	1.794241	.0699855	.0381966	70.75404

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.011326	.0059480	.0075283	145.8892	.1336227	.0987541
Stddev	.000968	.0000382	.0000600	.3280	.0005108	.0007337
%RSD	.0957029	.6424244	.7970082	.2248603	.3822899	.7429959
#1	1.011235	.0059552	.0074799	145.5944	.1337994	.0988828
#2	1.012336	.0059821	.0075096	145.8307	.1330470	.0994149
#3	1.010406	.0059067	.0075955	146.2426	.1340217	.0979645

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2962463	160.2550	6.503558	57.88528	.1850484	-.010169
Stddev	.0134276	.2599	.016372	.17357	.0008099	.001901
%RSD	4.532568	.1621652	.2517423	.2998474	.4376811	18.69499
#1	.2898926	160.0714	6.501625	58.04023	.1851454	-.009691
#2	.3116715	160.1413	6.488238	57.69772	.1858055	-.012263
#3	.2871748	160.5524	6.520811	57.91790	.1841944	-.008552

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6404925	.1809491	2.517992	7.510693	F 12.67654	-.311536
Stddev	.0200726	.0136984	.019232	.153080	.01246	.001135
%RSD	3.133924	7.570309	.7637674	2.038159	.0982643	.3643473
#1	.6612474	.1724162	2.519945	7.637100	12.67957	-.310427
#2	.6390499	.1736814	2.497858	7.554492	12.68721	-.312695
#3	.6211802	.1967498	2.536173	7.340487	12.66285	-.311486

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-08 Acquired: 01/03/2025 20:16:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0138978	5.388671	6.192243	.0803265	1.056785	.0837370
Stddev	.0005854	.009379	.030629	.0036065	.001230	.0002430
%RSD	4.212029	.1740487	.4946346	4.489793	.1163785	.2902144
#1	.0134468	5.378696	6.213833	.0763089	1.055499	.0839018
#2	.0145594	5.397311	6.205708	.0813862	1.057950	.0834579
#3	.0136873	5.390005	6.157189	.0832844	1.056907	.0838513

Elem	Li6707
Units	ppm
Avg	.0789929
Stddev	.0038050
%RSD	4.816925
#1	.0833858
#2	.0767266
#3	.0768662

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1983.613	20197.84	1992.811	1488.186	1885.693
Stddev	2.903	114.13	10.375	15.489	3.007
%RSD	.1463594	.5650559	.5206107	1.040828	.1594579
#1	1980.551	20131.65	1980.849	1483.238	1882.399
#2	1986.326	20329.62	1998.230	1505.545	1886.389
#3	1983.963	20132.24	1999.354	1475.774	1888.291

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-09 Acquired: 01/03/2025 20:20:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1277139	-.019313	2.394250	.0663229	.0406770	58.52067
Stddev	.0025106	.002630	.005646	.0042929	.0043934	.31235
%RSD	1.965812	13.61667	.2358052	6.472668	10.80064	.5337428
#1	.1297750	-.021854	2.399743	.0670174	.0388036	58.27940
#2	.1284490	-.019484	2.388463	.0617252	.0375309	58.40913
#3	.1249178	-.016602	2.394543	.0702262	.0456965	58.87348

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.084792	.0060787	.0082528	145.9059	.1361171	.0978472
Stddev	.005012	.0001427	.0001623	.6366	.0003773	.0007225
%RSD	.4620643	2.347882	1.966400	.4362927	.2771606	.7384110
#1	1.085510	.0059276	.0080833	145.5615	.1365525	.0986809
#2	1.079460	.0060973	.0084068	145.5157	.1358871	.0974571
#3	1.089408	.0062112	.0082683	146.6405	.1359117	.0974036

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3316953	157.9384	5.616984	52.33281	.2138159	-.010981
Stddev	.0126618	1.0169	.031431	.52768	.0015828	.001553
%RSD	3.817309	.6438430	.5595764	1.008316	.7402696	14.14636
#1	.3224664	157.1142	5.589107	52.06676	.2156427	-.012450
#2	.3264892	157.6262	5.610798	51.99111	.2129514	-.011138
#3	.3461302	159.0747	5.651049	52.94055	.2128536	-.009355

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6735194	.1660622	2.881208	6.862647	F 10.03637	-.307863
Stddev	.0151401	.0095397	.008305	.054865	.02219	.001598
%RSD	2.247915	5.744686	.2882566	.7994695	.2210880	.5189725
#1	.6804966	.1619112	2.881803	6.813936	10.04271	-.306370
#2	.6561487	.1593012	2.872621	6.851923	10.01170	-.307671
#3	.6839129	.1769742	2.889199	6.922082	10.05469	-.309548

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-09 Acquired: 01/03/2025 20:20:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0141179	3.446015	5.678784	.1182280	.9383534	.0981104
Stddev	.0002644	.012207	.023748	.0013847	.0157163	.0007281
%RSD	1.872887	.3542317	.4181941	1.171244	1.674878	.7421479
#1	.0140148	3.431951	5.677462	.1198259	.9280430	.0972696
#2	.0139206	3.452236	5.703165	.1173772	.9305753	.0985246
#3	.0144183	3.453858	5.655724	.1174811	.9564420	.0985369

Elem	Li6707
Units	ppm
Avg	.0743386
Stddev	.0030522
%RSD	4.105859
#1	.0709420
#2	.0752222
#3	.0768516

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2034.356	20685.46	2031.377	1519.336	1940.064
Stddev	4.776	140.54	9.245	7.305	1.013
%RSD	.2347461	.6794355	.4551282	.4807706	.0522060
#1	2039.839	20537.89	2023.963	1514.360	1940.262
#2	2031.104	20817.73	2028.433	1527.722	1940.963
#3	2032.125	20700.75	2041.736	1515.927	1938.967

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-10 Acquired: 01/03/2025 20:24:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2743848	-.089747	8.751085	.2065834	.0693165	52.56561
Stddev	.0025549	.001525	.007968	.0113298	.0042125	.32624
%RSD	.9311277	1.699639	.0910566	5.484390	6.077217	.6206427
#1	.2742966	-.088857	8.744046	.1938048	.0736692	52.21608
#2	.2718752	-.091509	8.759736	.2105446	.0690206	52.61869
#3	.2769827	-.088876	8.749472	.2154009	.0652598	52.86206

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.566792	.0104011	.0108103	187.0888	.1892472	.1221265
Stddev	.004062	.0001053	.0002930	.6139	.0010259	.0004411
%RSD	.2592847	1.012736	2.710644	.3281269	.5421151	.3611539
#1	1.562190	.0104122	.0106967	186.3840	.1890793	.1218778
#2	1.569880	.0105004	.0105911	187.3760	.1883155	.1226358
#3	1.568307	.0102906	.0111431	187.5064	.1903467	.1218659

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6643186	419.9767	6.742079	54.57176	.8271822	-.028516
Stddev	.0120064	2.3528	.030812	.28184	.0009870	.001179
%RSD	1.807321	.5602103	.4570072	.5164605	.1193189	4.132928
#1	.6580659	417.3204	6.711296	54.30463	.8271460	-.028718
#2	.6781609	420.8113	6.742022	54.54436	.8281868	-.027250
#3	.6567291	421.7984	6.772919	54.86631	.8262138	-.029581

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.193278	.2356829	3.105485	7.380408	F 10.75834	-.902878
Stddev	.016460	.0034720	.014153	.054602	.00918	.011413
%RSD	1.379365	1.473178	.4557426	.7398199	.0853305	1.264103
#1	1.186935	.2323597	3.098804	7.317709	10.75184	-.897193
#2	1.211966	.2392867	3.095909	7.417496	10.76884	-.916018
#3	1.180934	.2354025	3.121742	7.406020	10.75433	-.895424

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-10 Acquired: 01/03/2025 20:24:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0202126	4.576988	5.383664	7.512731	1.037169	-.039316
Stddev	.0007136	.011864	.058500	.009899	.008694	.000566
%RSD	3.530464	.2592005	1.086628	.1317693	.8382855	1.440860
#1	.0194715	4.565554	5.357312	7.502412	1.027868	-.038953
#2	.0208950	4.576172	5.450706	7.513633	1.038547	-.039027
#3	.0202712	4.589239	5.342975	7.522149	1.045092	-.039969

Elem	Li6707
Units	ppm
Avg	.0812182
Stddev	.0012422
%RSD	1.529441
#1	.0799016
#2	.0823694
#3	.0813836

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2029.452	20741.34	2043.882	1515.803	1941.557
Stddev	5.461	115.34	11.056	10.024	1.880
%RSD	.2691019	.5560926	.5409142	.6613300	.0968278
#1	2032.798	20685.21	2044.045	1511.832	1940.976
#2	2032.407	20874.00	2032.745	1527.204	1943.659
#3	2023.149	20664.81	2054.854	1508.372	1940.037

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-11 Acquired: 01/03/2025 20:28:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1431709	-.015001	3.559267	.0614248	.0425757	47.09639	1.428710
Stddev	.0042156	.002759	.004791	.0063184	.0023208	.07938	.004438
%RSD	2.944450	18.39329	.1346058	10.28631	5.450977	.1685530	.3106051
#1	.1477494	-.017481	3.557050	.0683079	.0435178	47.18802	1.427609
#2	.1394501	-.012029	3.555986	.0558883	.0442772	47.04848	1.433594
#3	.1423132	-.015494	3.564765	.0600783	.0399320	47.05266	1.424926

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0066672	.0061945	197.0637	.1353287	.1002543	.4594715	161.3848
Stddev	.0003380	.0002035	.3209	.0006014	.0006750	.0177756	.5572
%RSD	5.070020	3.285454	.1628506	.4444068	.6732886	3.868710	.3452376
#1	.0069170	.0063660	197.4319	.1358665	.1003438	.4583441	162.0099
#2	.0068021	.0059696	196.9152	.1346793	.1008801	.4777839	161.2041
#3	.0062826	.0062478	196.8439	.1354403	.0995390	.4422864	160.9405

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.099150	48.01799	.1738832	-.009363	.9921423	.1869210	2.516482
Stddev	.005107	.29681	.0008494	.001450	.0129016	.0026305	.014084
%RSD	.1001614	.6181238	.4885175	15.48460	1.300382	1.407300	.5596758
#1	5.104605	48.33286	.1748427	-.008685	.9774066	.1865016	2.511755
#2	5.094482	47.97775	.1732272	-.011028	1.001407	.1845253	2.532322
#3	5.098363	47.74335	.1735797	-.008376	.997614	.1897360	2.505370

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.539754	9.775888	-.318428	.0119894	4.728121	4.921257	.2021471
Stddev	.145496	.013806	.004098	.0005140	.021086	.021375	.0016545
%RSD	2.224793	.1412224	1.286834	4.287273	.4459667	.4343467	.8184379
#1	6.458080	9.777125	-.323100	.0115798	4.707953	4.939040	.2029733
#2	6.707737	9.761505	-.316739	.0118222	4.726392	4.927187	.2002423
#3	6.453444	9.789033	-.315445	.0125662	4.750018	4.897542	.2032258

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-11 Acquired: 01/03/2025 20:28:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.032801	.2617592	.0791502
Stddev	.005279	.0004559	.0012103
%RSD	.5110963	.1741836	1.529120
#1	1.037852	.2622831	.0778918
#2	1.027321	.2615425	.0792528
#3	1.033230	.2614519	.0803059

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2010.573	20673.62	2034.027	1515.756	1909.368
Stddev	3.072	105.84	10.081	4.544	2.092
%RSD	.1528027	.5119573	.4955980	.2998066	.1095566
#1	2013.102	20629.44	2022.722	1520.518	1908.702
#2	2011.463	20794.39	2042.081	1511.466	1911.712
#3	2007.154	20597.03	2037.278	1515.285	1907.691

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-12 Acquired: 01/03/2025 20:31:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1186874	-.021434	4.553332	.0722037	.0469750	52.86803
Stddev	.0015404	.004558	.008179	.0064482	.0022101	.08760
%RSD	1.297869	21.26657	.1796202	8.930623	4.704791	.1656920
#1	.1197844	-.023173	4.558646	.0680883	.0455266	52.76727
#2	.1169263	-.024868	4.557436	.0796351	.0495188	52.92611
#3	.1193514	-.016262	4.543914	.0688875	.0458795	52.91071

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.735416	.0059666	.0057160	170.4292	.1374792	.1091767
Stddev	.010346	.0002532	.0000499	.3672	.0018940	.0004410
%RSD	.5961593	4.242832	.8733278	.2154647	1.377687	.4039619
#1	1.735736	.0057169	.0057723	170.5109	.1371066	.1096177
#2	1.724914	.0062231	.0056986	170.0281	.1395318	.1087356
#3	1.745598	.0059599	.0056771	170.7488	.1357991	.1091767

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7223804	170.5148	7.561617	48.41653	.1534410	-.009312
Stddev	.0077056	.1294	.008568	.11293	.0009781	.000771
%RSD	1.066689	.0758797	.1133079	.2332502	.6374740	8.281987
#1	.7159669	170.5294	7.556355	48.54057	.1524298	-.008483
#2	.7202461	170.6363	7.571503	48.31967	.1543823	-.010009
#3	.7309281	170.3788	7.556992	48.38936	.1535109	-.009444

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9379305	.1483354	3.325602	7.024951	F 11.38833	-.342842
Stddev	.0097669	.0005627	.003664	.139939	.00946	.005950
%RSD	1.041324	.3793436	.1101615	1.992023	.0830460	1.735415
#1	.9395752	.1483613	3.321481	7.122964	11.39616	-.337832
#2	.9467707	.1488847	3.328488	6.864688	11.39101	-.349418
#3	.9274457	.1477602	3.326838	7.087199	11.37783	-.341276

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-12 Acquired: 01/03/2025 20:31:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0116232	2.395699	4.942519	.3185383	.9171754	.1912618
Stddev	.0005995	.005737	.024558	.0009204	.0036897	.0006557
%RSD	5.157706	.2394898	.4968749	.2889290	.4022909	.3428060
#1	.0109925	2.395642	4.957150	.3184432	.9204699	.1905389
#2	.0121857	2.389991	4.956241	.3195026	.9178678	.1914284
#3	.0116913	2.401465	4.914167	.3176693	.9131886	.1918180

Elem	Li6707
Units	ppm
Avg	.0874610
Stddev	.0037333
%RSD	4.268516
#1	.0916952
#2	.0860449
#3	.0846429

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2083.569	21261.37	2102.122	1559.814	1920.735
Stddev	4.132	36.64	10.353	2.862	1.836
%RSD	.1983110	.1723448	.4925220	.1834620	.0955987
#1	2082.671	21268.45	2092.023	1558.337	1918.709
#2	2088.077	21293.96	2101.631	1563.112	1922.291
#3	2079.961	21221.70	2112.712	1557.992	1921.204

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-13 Acquired: 01/03/2025 20:35:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0978125	-.013353	2.172817	.0603169	.0340813	59.45723
Stddev	.0034163	.003761	.004493	.0009449	.0037486	.37830
%RSD	3.492728	28.16797	.2067866	1.566542	10.99893	.6362584
#1	.0999019	-.010991	2.168782	.0596286	.0308531	59.48517
#2	.0996656	-.011377	2.177659	.0613942	.0331982	59.06573
#3	.0938701	-.017690	2.172011	.0599278	.0381925	59.82079

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.237337	.0051191	.0041541	135.7998	.1197795	.1116727
Stddev	.009997	.0000695	.0000544	.8770	.0009986	.0005213
%RSD	.8079775	1.358516	1.308866	.6457809	.8336623	.4667657
#1	1.231218	.0050388	.0041459	135.1262	.1189403	.1114154
#2	1.231919	.0051583	.0041043	135.4818	.1208839	.1122725
#3	1.248874	.0051602	.0042121	136.7914	.1195143	.1113301

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3183483	144.1719	5.934495	40.17078	.1413683	-.008722
Stddev	.0057733	1.0633	.039820	.26035	.0012233	.000964
%RSD	1.813503	.7374959	.6709863	.6481200	.8653459	11.05281
#1	.3180407	144.1082	5.921142	40.30145	.1420413	-.007657
#2	.3242693	143.1419	5.903068	39.87097	.1399563	-.008975
#3	.3127351	145.2656	5.979275	40.33992	.1421074	-.009534

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7890314	.1355200	1.498833	6.527953	F 15.14807	-.292813
Stddev	.0199347	.0095884	.010521	.086402	.01830	.003665
%RSD	2.526482	7.075264	.7019411	1.323564	.1208033	1.251737
#1	.7681492	.1245557	1.488277	6.460601	15.13046	-.288964
#2	.7910854	.1396698	1.498905	6.497886	15.14677	-.293214
#3	.8078596	.1423346	1.509319	6.625370	15.16698	-.296261

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-13 Acquired: 01/03/2025 20:35:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0104593	1.944065	4.378610	.0951475	.8557742	.1766098
Stddev	.0012169	.000852	.023913	.0005577	.0145271	.0006564
%RSD	11.63484	.0438154	.5461298	.5860886	1.697542	.3716528
#1	.0096354	1.943299	4.368226	.0948568	.8704372	.1759711
#2	.0098855	1.943913	4.361644	.0947952	.8413869	.1765757
#3	.0118571	1.944982	4.405959	.0957904	.8554983	.1772825

Elem	Li6707
Units	ppm
Avg	.1064699
Stddev	.0034718
%RSD	3.260860
#1	.1029699
#2	.1065269
#3	.1099128

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2261.570	23224.34	2305.841	1708.439	1893.131
Stddev	3.929	170.51	11.122	8.747	4.794
%RSD	.1737231	.7341713	.4823403	.5119855	.2532127
#1	2265.873	23421.12	2302.107	1718.214	1897.379
#2	2260.663	23120.38	2318.349	1705.753	1894.080
#3	2258.174	23131.53	2297.066	1701.350	1887.934

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-14 Acquired: 01/03/2025 20:39:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMD7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3010916	-.008830	5.563541	.0742059	.0368156	57.32904
Stddev	.0065882	.003509	.018941	.0017740	.0032706	.38875
%RSD	2.188113	39.73986	.3404553	2.390657	8.883776	.6780964
#1	.3006999	-.010912	5.572646	.0733267	.0359447	57.62089
#2	.2947080	-.004778	5.541767	.0730433	.0340686	56.88775
#3	.3078670	-.010798	5.576211	.0762478	.0404335	57.47848

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.146706	.0061738	.0095635	589.9518	.1370227	.1474859
Stddev	.006905	.0001943	.0001727	2.0319	.0014850	.0004911
%RSD	.2194233	3.147331	1.805472	.3444137	1.083772	.3330081
#1	3.150376	.0063822	.0095549	590.2118	.1356563	.1480289
#2	3.138741	.0061416	.0097403	587.8024	.1386031	.1470727
#3	3.151001	.0059976	.0093953	591.8411	.1368089	.1473561

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9317655	182.9458	15.35274	55.66597	.2039479	-.009005
Stddev	.0060603	1.1605	.06212	.16736	.0015058	.000510
%RSD	.6504057	.6343435	.4046167	.3006430	.7383216	5.664882
#1	.9345531	183.8358	15.38076	55.76568	.2050275	-.009391
#2	.9248130	181.6332	15.28154	55.47276	.2022277	-.008427
#3	.9359303	183.3683	15.39590	55.75948	.2045884	-.009198

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8804419	.1706260	3.248455	8.784218	F 12.27259	-.363177
Stddev	.0108147	.0081733	.012230	.163644	.04145	.004768
%RSD	1.228323	4.790165	.3764952	1.862931	.3377625	1.312842
#1	.8688410	.1778182	3.262240	8.781537	12.27193	-.368683
#2	.8902450	.1617378	3.238904	8.621932	12.23147	-.360423
#3	.8822398	.1723221	3.244221	8.949187	12.31436	-.360426

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-14 Acquired: 01/03/2025 20:39:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMD7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0101538	2.947788	5.380880	.1194359	.7686428	.3831718
Stddev	.0008646	.005382	.046952	.0029339	.0083471	.0018183
%RSD	8.515286	.1825716	.8725699	2.456445	1.085959	.4745384
#1	.0104941	2.943600	5.431890	.1186936	.7701391	.3845201
#2	.0091709	2.953858	5.339470	.1169445	.7596488	.3811038
#3	.0107966	2.945906	5.371279	.1226696	.7761407	.3838916

Elem	Li6707
Units	ppm
Avg	.0753495
Stddev	.0038265
%RSD	5.078347
#1	.0718378
#2	.0747831
#3	.0794277

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2086.370	21398.17	2132.734	1565.022	1800.518
Stddev	7.005	89.09	16.339	4.303	2.622
%RSD	.3357343	.4163309	.7661069	.2749621	.1456104
#1	2081.618	21486.86	2115.749	1560.776	1799.725
#2	2083.077	21398.95	2148.340	1569.381	1798.384
#3	2094.414	21308.69	2134.112	1564.910	1803.444

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-15 Acquired: 01/03/2025 20:43:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMD8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1925552	-.004863	4.402847	.0698842	.0355476	62.18741
Stddev	.0041696	.002770	.002934	.0035529	.0024915	.07809
%RSD	2.165396	56.95980	.0666481	5.083957	7.009056	.1255724
#1	.1972892	-.008018	4.400329	.0718953	.0362162	62.11331
#2	.1894283	-.002834	4.406069	.0657819	.0376366	62.17996
#3	.1909481	-.003736	4.402142	.0719752	.0327900	62.26896

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.946569	.0061720	.0069524	397.0765	.1207663	.1355624
Stddev	.006892	.0000833	.0001050	.4560	.0007343	.0014367
%RSD	.3540484	1.349862	1.510542	.1148327	.6080662	1.059829
#1	1.953532	.0062438	.0069184	397.1789	.1202363	.1371703
#2	1.946424	.0061915	.0068687	396.5781	.1216045	.1351123
#3	1.939751	.0060806	.0070703	397.4726	.1204581	.1344046

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5826325	177.0549	15.71305	55.84403	.1765829	-.008941
Stddev	.0074096	.2155	.01622	.01366	.0011023	.001839
%RSD	1.271752	.1216857	.1032316	.0244603	.6242614	20.56629
#1	.5749913	176.9616	15.73166	55.82856	.1778193	-.007874
#2	.5831198	177.3013	15.70188	55.85440	.1757026	-.011064
#3	.5897865	176.9019	15.70562	55.84914	.1762270	-.007884

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6931650	.1659617	2.160077	7.516835	F 11.10467	-.360835
Stddev	.0159472	.0042903	.007903	.217398	.00693	.004531
%RSD	2.300642	2.585118	.3658761	2.892154	.0624195	1.255691
#1	.6984473	.1610431	2.167849	7.428632	11.10630	-.365250
#2	.7058008	.1689335	2.160333	7.357399	11.09707	-.356197
#3	.6752468	.1679083	2.152049	7.764473	11.11065	-.361058

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-15 Acquired: 01/03/2025 20:43:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMD8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0094439	2.187866	5.155952	.1248266	.7176488	.2734987
Stddev	.0004778	.004311	.019891	.0005624	.0017948	.0007095
%RSD	5.058993	.1970220	.3857892	.4505721	.2500939	.2594307
#1	.0088973	2.192594	5.170481	.1242416	.7157385	.2740004
#2	.0097817	2.186848	5.164095	.1248747	.7192998	.2726869
#3	.0096527	2.184155	5.133282	.1253634	.7179081	.2738088

Elem	Li6707
Units	ppm
Avg	.0844664
Stddev	.0008860
%RSD	1.048998
#1	.0836023
#2	.0853729
#3	.0844240

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2107.945	21766.43	2152.870	1593.147	1844.270
Stddev	8.195	122.49	.949	3.810	5.868
%RSD	.3887877	.5627296	.0440780	.2391210	.3181549
#1	2116.871	21816.36	2153.668	1597.178	1850.870
#2	2100.760	21856.07	2153.122	1592.657	1842.294
#3	2106.206	21626.87	2151.821	1589.606	1839.645

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCV105 Acquired: 01/03/2025 20:47:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV105 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.018794	4.885438	24.90570	4.914834	4.917710	402.2096
Stddev	.015961	.019617	.04083	.006486	.013162	.0913
%RSD	.3180228	.4015345	.1639512	.1319596	.2676473	.0227037
#1	5.000385	4.906296	24.94763	4.922064	4.925348	402.3081
#2	5.028755	4.882658	24.90340	4.909530	4.902512	402.1929
#3	5.027242	4.867359	24.86606	4.912906	4.925271	402.1278

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.27461	.5188284	2.506519	409.8528	15.53286	2.520104
Stddev	.03152	.0016182	.004035	1.0336	.01198	.005577
%RSD	.3067836	.3119036	.1609969	.2521841	.0771553	.2212866
#1	10.29227	.5200231	2.511152	411.0351	15.53570	2.526539
#2	10.23821	.5194753	2.504641	409.1206	15.54316	2.516688
#3	10.29334	.5169867	2.503766	409.4026	15.51970	2.517085

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.41470	408.7359	15.30672	405.8021	2.528403	1.258168
Stddev	.05975	.2773	.01498	.6645	.002646	.003105
%RSD	.3876488	.0678482	.0978857	.1637617	.1046446	.2467843
#1	15.47853	409.0557	15.32005	406.5443	2.530722	1.255806
#2	15.36010	408.5888	15.30960	405.2621	2.528966	1.261685
#3	15.40547	408.5630	15.29050	405.5999	2.525521	1.257014

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	409.3776	2.544431	14.77207	153.7985	4.967433	F 4.492403
Stddev	1.7475	.031524	.07664	.7879	.005835	.010539
%RSD	.4268720	1.238934	.5187887	.5122919	.1174671	.2346027
#1	411.0254	2.580584	14.69035	154.6820	4.971986	4.480432
#2	409.5625	2.522684	14.78354	153.1687	4.960855	4.500283
#3	407.5450	2.530025	14.84233	153.5448	4.969458	4.496495

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCV105 Acquired: 01/03/2025 20:47:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV105 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.910838	5.004274	5.086252	5.042880	5.112843	4.857784
Stddev	.011170	.012073	.012407	.012016	.006361	.010031
%RSD	.2274552	.2412501	.2439289	.2382773	.1244077	.2064883
#1	4.906856	5.006255	5.086763	5.056650	5.120150	4.869309
#2	4.902204	5.015234	5.098395	5.037465	5.108546	4.851025
#3	4.923453	4.991334	5.073598	5.034524	5.109832	4.853018

Elem	Li6707
Units	ppm
Avg	4.900919
Stddev	.015787
%RSD	.3221239
#1	4.909938
#2	4.882690
#3	4.910130

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1527.477	16728.52	1694.354	1142.373	1639.502
Stddev	4.080	41.94	5.872	3.225	2.594
%RSD	.2671021	.2506888	.3465699	.2823133	.1582361
#1	1528.075	16680.62	1689.086	1144.922	1636.556
#2	1531.225	16746.28	1693.292	1143.449	1641.445
#3	1523.132	16758.65	1700.685	1138.747	1640.506

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCB105 Acquired: 01/03/2025 20:50:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB105 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001183	.0015317	.0008377	.0067524	-.000771	.0053553	-.002127
Stddev	.0003515	.0039148	.0033798	.0036842	.002294	.0081034	.001354
%RSD	297.1693	255.5811	403.4748	54.56070	297.5631	151.3162	63.67278
#1	.0000420	.0013004	.0026333	.0109700	-.003136	.0144580	-.001442
#2	.0005016	-.002262	-.003061	.0051248	.001444	-.001072	-.001253
#3	-.000189	.005557	.002941	.0041623	-.000620	.002680	-.003687

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000077	-.000012	-.017258	.0004277	-.000033	.0001149	.0451028
Stddev	.0002158	.000049	.028339	.0001246	.000837	.0133402	.0406315
%RSD	2801.624	400.6734	164.2065	29.14199	2561.709	11613.24	90.08641
#1	-.000162	-.000069	.009377	.0004906	.000770	-.009280	.0831092
#2	.000251	.000018	-.014113	.0005083	.000032	.015384	.0499229
#3	-.000065	.000014	-.047038	.0002841	-.000900	-.005760	.0022762

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046527	-.100055	-.000940	.0016232	.1113632	-.007749	-.000037
Stddev	.0010360	.105589	.000321	.0020920	.0127087	.007913	.000335
%RSD	22.26587	105.5314	34.08203	128.8817	11.41197	102.1096	897.4407
#1	.0041238	-.144012	-.001104	.0040205	.1110799	-.011602	.000014
#2	.0039880	-.176564	-.001146	.0006815	.1242112	-.012998	.000269
#3	.0058464	.020412	-.000571	.0001676	.0987984	.001352	-.000396

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2919990	-.002382	.0075868	-.000161	-.010551	-.001838	.0013262
Stddev	.2856004	.003812	.0032785	.000793	.001689	.000113	.0008300
%RSD	97.80868	160.0229	43.21290	493.5046	16.00447	6.167930	62.58521
#1	.3814525	.000734	.0087008	.000737	-.011347	-.001960	.0022801
#2	-.027621	-.001248	.0038965	-.000764	-.008611	-.001819	.0007694
#3	.522165	-.006632	.0101632	-.000455	-.011695	-.001735	.0009290

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCB105 Acquired: 01/03/2025 20:50:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB105 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.008766	-.000325	.0063660
Stddev	.003780	.000184	.0017057
%RSD	43.12136	56.55360	26.79346
#1	-.011605	-.000536	.0048301
#2	-.010216	-.000196	.0060662
#3	-.004475	-.000244	.0082017

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1819.565	18600.15	1807.413	1374.624	2015.568
Stddev	7.007	5.17	14.903	3.140	9.898
%RSD	.3851113	.0278040	.8245437	.2284482	.4910649
#1	1827.416	18597.19	1791.172	1374.102	2025.995
#2	1813.945	18606.12	1810.608	1377.992	2006.302
#3	1817.334	18597.14	1820.459	1371.777	2014.407

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165506BL Acquired: 01/03/2025 20:54:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS506 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001257	.0000253	-.001353	.0056704	.0022075	.0075638
Stddev	.004222	.0007790	.001115	.0015674	.0046275	.0192968
%RSD	335.7914	3080.110	82.42485	27.64220	209.6247	255.1212
#1	.001525	.0003797	-.001141	.0042144	-.000845	-.012269
#2	.000818	-.000868	-.000359	.0054674	-.000065	.026276
#3	-.006115	.000564	-.002559	.0073295	.007532	.008683

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006320	.0000498	-.000057	-.120854	.0005429	-.000457
Stddev	.001030	.0001099	.000052	.033888	.0011027	.000206
%RSD	16.29961	220.8020	90.62083	28.04060	203.1176	45.00767
#1	-.006900	.0001455	-.000104	-.090956	.0013446	-.000624
#2	-.005131	-.000070	-.000001	-.157666	-.000715	-.000521
#3	-.006930	.000074	-.000067	-.113938	.000999	-.000227

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006127	.0075753	.0044627	-.088845	-.001035	.0004484
Stddev	.016157	.0527633	.0010615	.136726	.000955	.0004758
%RSD	263.7282	696.5158	23.78529	153.8929	92.21539	106.1033
#1	-.024672	-.052486	.0051717	.034863	-.000673	-.000065
#2	.004911	.046462	.0049741	-.065751	-.000315	.000536
#3	.001381	.028751	.0032423	-.235647	-.002118	.000874

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0438766	-.004754	-.000215	.0636459	-.001530	-.000023
Stddev	.0353988	.008668	.000536	.1714117	.002243	.000491
%RSD	80.67812	182.3540	248.8869	269.3207	146.6027	2168.848
#1	.0810158	.005066	-.000438	-.047845	-.000752	.000241
#2	.0400917	-.007982	.000396	.261022	-.004058	-.000590
#3	.0105223	-.011345	-.000603	-.022240	.000221	.000280

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165506BL Acquired: 01/03/2025 20:54:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS506 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000515	-.009672	-.003770	F -.017318	-.005330	-.000267
Stddev	.000426	.004237	.000592	.000784	.003429	.000093
%RSD	82.72236	43.80378	15.69905	4.527527	64.33679	34.75905
#1	-.000740	-.004846	-.003091	-.017255	-.003027	-.000342
#2	-.000024	-.012780	-.004045	-.018132	-.003692	-.000296
#3	-.000783	-.011390	-.004174	-.016568	-.009271	-.000163

Elem	Li6707
Units	ppm
Avg	-.001649
Stddev	.001840
%RSD	111.5955
#1	.000023
#2	-.001349
#3	-.003621

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1835.259	18808.27	1833.136	1390.319	2032.410
Stddev	3.116	46.98	20.175	6.640	6.211
%RSD	.1697623	.2497986	1.100584	.4776243	.3056109
#1	1832.482	18754.36	1821.991	1382.655	2025.461
#2	1834.665	18829.97	1856.425	1393.926	2034.345
#3	1838.628	18840.49	1820.992	1394.375	2037.423

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165506BS Acquired: 01/03/2025 20:58:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS506 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0223933	.0518760	.0179377	.0618199	.1109769	.3971356
Stddev	.0037312	.0055233	.0040901	.0062118	.0022252	.0267045
%RSD	16.66212	10.64709	22.80157	10.04823	2.005108	6.724285
#1	.0236425	.0554755	.0211534	.0563536	.1127876	.4205322
#2	.0253397	.0546357	.0133343	.0685750	.1084928	.4028323
#3	.0181978	.0455167	.0193253	.0605311	.1116503	.3680424

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4110614	.0105437	.0098696	10.32410	.0211043	.1010327
Stddev	.0028767	.0000564	.0000442	.07240	.0009366	.0009224
%RSD	.6998233	.5352849	.4483604	.7012976	4.437896	.9130072
#1	.4141943	.0104796	.0098299	10.33488	.0213383	.1015846
#2	.4085388	.0105653	.0098616	10.39051	.0219017	.0999678
#3	.4104512	.0105861	.0099174	10.24691	.0200729	.1015458

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0439101	.1958712	.0373480	10.44782	.0795464	.0203352
Stddev	.0079275	.0204797	.0028115	.06105	.0020722	.0008908
%RSD	18.05385	10.45568	7.527897	.5842955	2.604989	4.380373
#1	.0479927	.2054459	.0352369	10.43187	.0816357	.0194043
#2	.0347735	.2098098	.0405394	10.51526	.0774917	.0211795
#3	.0489642	.1723579	.0362676	10.39634	.0795117	.0204217

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.576662	.0979204	.1179765	9.510684	.0184639	F -.001208
Stddev	.059396	.0072920	.0011912	.164296	.0010986	.001704
%RSD	.7839298	7.446810	1.009660	1.727489	5.950055	141.0494
#1	7.598478	.1002708	.1182840	9.690923	.0182480	-.002929
#2	7.622065	.1037473	.1166617	9.369295	.0174893	.000479
#3	7.509444	.0897431	.1189837	9.471834	.0196544	-.001175

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165506BS Acquired: 01/03/2025 20:58:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS506 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0209317	.1648274	F .4929516	F -.003427	.1860156	.2123127
Stddev	.0006027	.0078038	.0033762	.001918	.0060144	.0013391
%RSD	2.879243	4.734522	.6848864	55.97961	3.233256	.6306955
#1	.0206535	.1558534	.4941202	-.004136	.1836760	.2128335
#2	.0216232	.1700215	.4955882	-.004889	.1815225	.2133132
#3	.0205183	.1686071	.4891464	-.001255	.1928482	.2107915

Elem	Li6707
Units	ppm
Avg	.0268758
Stddev	.0046069
%RSD	17.14133
#1	.0317673
#2	.0262408
#3	.0226194

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1808.088	18558.65	1801.006	1362.804	2000.466
Stddev	4.082	112.62	7.987	8.302	2.378
%RSD	.2257841	.6068432	.4434471	.6092022	.1188622
#1	1810.642	18454.98	1795.562	1353.239	1998.246
#2	1810.242	18542.49	1797.282	1367.026	2002.975
#3	1803.380	18678.48	1810.174	1368.147	2000.178

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165632BL Acquired: 01/03/2025 21:02:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS632 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003553	.0016824	-.002483	.0000076	.0046906	.0046793
Stddev	.003488	.0033177	.001564	.0032956	.0019562	.0071889
%RSD	98.16842	197.1979	62.99782	43172.02	41.70505	153.6325
#1	-.005883	.0001376	-.002150	-.003664	.0046931	-.003553
#2	.000457	.0054909	-.004188	.002709	.0066456	.009720
#3	-.005234	-.000581	-.001112	.000978	.0027332	.007870

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004487	-.000115	.0000050	-.047972	-.000641	-.000006
Stddev	.004254	.000275	.0000944	.010043	.000671	.000466
%RSD	94.80787	238.8177	1887.228	20.93608	104.6552	7618.927
#1	-.009101	.000196	-.000034	-.037846	.000026	.000245
#2	-.003636	-.000215	-.000063	-.057931	-.001317	.000281
#3	-.000722	-.000326	.000113	-.048139	-.000634	-.000544

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.017020	-.004967	.0050480	-.132243	-.000623	.0010331
Stddev	.013731	.007490	.0013422	.031920	.001078	.0005766
%RSD	80.67381	150.8093	26.58905	24.13720	173.1350	55.81831
#1	-.002754	-.007001	.0044875	-.096662	-.001513	.0003674
#2	-.018162	.003331	.0040768	-.158361	.000577	.0013523
#3	-.030144	-.011229	.0065796	-.141706	-.000933	.0013795

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000154	-.003663	-.000563	.1199239	.0006298	-.003307
Stddev	.0148456	.008077	.000356	.0900399	.0017857	.001437
%RSD	96178.67	220.5224	63.21790	75.08088	283.5381	43.43538
#1	.0078960	.001912	-.000971	.0423865	.0022055	-.003711
#2	-.017109	-.012926	-.000399	.2186772	-.001310	-.001712
#3	.009259	.000026	-.000318	.0987080	.000994	-.004499

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165632BL Acquired: 01/03/2025 21:02:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS632 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000755	-.009615	-.002711	F -.017298	-.005226	-.000149
Stddev	.000249	.003076	.001175	.002613	.000554	.000299
%RSD	32.96535	31.99554	43.36436	15.10372	10.60187	200.4294
#1	-.001024	-.009293	-.003248	-.017442	-.005155	-.000145
#2	-.000707	-.012840	-.003521	-.014616	-.005813	-.000450
#3	-.000533	-.006712	-.001363	-.019835	-.004711	.000148

Elem	Li6707
Units	ppm
Avg	-.006881
Stddev	.004694
%RSD	68.22441
#1	-.001740
#2	-.007963
#3	-.010940

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1827.175	18563.14	1805.761	1373.960	2021.910
Stddev	.609	38.13	4.496	1.213	3.362
%RSD	.0333042	.2054203	.2489866	.0882728	.1662801
#1	1826.956	18607.11	1810.368	1375.325	2019.046
#2	1827.863	18543.27	1801.384	1373.551	2021.072
#3	1826.706	18539.05	1805.530	1373.005	2025.612

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165632BS Acquired: 01/03/2025 21:06:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS632 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0214069	.0511189	.0157986	.0633734	.1084030	.4058031
Stddev	.0018893	.0032620	.0031385	.0050725	.0016740	.0323583
%RSD	8.825751	6.381292	19.86542	8.004210	1.544275	7.973890
#1	.0235688	.0485166	.0173065	.0692172	.1077685	.4310168
#2	.0200725	.0547784	.0178985	.0607952	.1071389	.3693161
#3	.0205794	.0500616	.0121908	.0601077	.1103015	.4170762

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4025858	.0105134	.0097262	10.08805	.0208094	.0993491
Stddev	.0032061	.0001448	.0000456	.07423	.0003482	.0006206
%RSD	.7963712	1.377370	.4693850	.7358675	1.673104	.6246297
#1	.4005723	.0106789	.0096766	10.00541	.0207305	.0999244
#2	.4062829	.0104517	.0097666	10.14908	.0211902	.0986915
#3	.4009021	.0104097	.0097354	10.10967	.0205074	.0994314

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0523066	.2339239	.0365997	10.24635	.0777299	.0201950
Stddev	.0113897	.0594419	.0008126	.16577	.0009319	.0006401
%RSD	21.77483	25.41080	2.220145	1.617799	1.198913	3.169688
#1	.0471430	.1912443	.0370988	10.19671	.0772267	.0194582
#2	.0653635	.2087108	.0370383	10.11108	.0771578	.0206148
#3	.0444133	.3018167	.0356621	10.43126	.0788053	.0205119

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.410801	.0968587	.1155406	9.408834	.0193141	F -.004330
Stddev	.029920	.0162871	.0009013	.251603	.0023245	.001324
%RSD	.4037388	16.81530	.7800451	2.674114	12.03534	30.58038
#1	7.444855	.0825964	.1159724	9.138370	.0219211	-.004515
#2	7.388727	.1146063	.1161448	9.635941	.0185639	-.005552
#3	7.398822	.0933734	.1145047	9.452191	.0174573	-.002923

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165632BS Acquired: 01/03/2025 21:06:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS632 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0205381	.1655846	F .4851462	F -.004621	.1888134	.2091140
Stddev	.0002079	.0076412	.0020850	.000288	.0066629	.0006565
%RSD	1.012082	4.614660	.4297668	6.242162	3.528839	.3139429
#1	.0205944	.1722319	.4874883	-.004563	.1811999	.2085837
#2	.0203078	.1672856	.4834922	-.004934	.1935793	.2098483
#3	.0207119	.1572363	.4844581	-.004366	.1916611	.2089101

Elem	Li6707
Units	ppm
Avg	.0218840
Stddev	.0027026
%RSD	12.34957
#1	.0188137
#2	.0229355
#3	.0239028

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1820.406	18604.18	1809.971	1369.627	2015.432
Stddev	.963	109.68	4.285	3.264	1.341
%RSD	.0529113	.5895633	.2367504	.2383047	.0665572
#1	1820.977	18669.57	1805.048	1365.966	2015.840
#2	1819.294	18477.55	1812.862	1370.680	2013.935
#3	1820.947	18665.42	1812.004	1372.234	2016.523

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165726BL Acquired: 01/03/2025 21:10:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS726 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003697	-.000347	-.001355	.0018664	.0004198	-.025270
Stddev	.002104	.004840	.001684	.0043117	.0014821	.049967
%RSD	56.91687	1395.610	124.3345	231.0210	352.9984	197.7338
#1	-.005265	-.004218	-.002903	.0050461	.0016522	.011059
#2	-.004522	-.001902	.000439	.0035943	-.001225	-.004616
#3	-.001305	.005079	-.001601	-.003041	.000832	-.082252

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005767	-.000015	-.000040	-.054383	-.000712	.0000371
Stddev	.003123	.000121	.000090	.041261	.000648	.0006048
%RSD	54.15870	811.4022	224.3355	75.87145	91.04060	1629.632
#1	-.003679	.000121	.000019	-.046175	-.001038	-.000644
#2	-.009357	-.000054	.000004	-.017843	.000034	.000510
#3	-.004265	-.000111	-.000144	-.099131	-.001133	.000246

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007335	.0021320	.0060729	-.142581	-.000954	.0004807
Stddev	.010689	.0471675	.0023470	.026313	.000609	.0018279
%RSD	145.7344	2212.407	38.64769	18.45447	63.85884	380.2218
#1	-.002369	.0420090	.0034253	-.160249	-.000474	-.000407
#2	-.000031	-.049934	.0068958	-.155153	-.000748	.002583
#3	-.019604	.014320	.0078978	-.112341	-.001639	-.000734

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.018596	-.002512	-.001384	.0852797	-.002878	-.004916
Stddev	.029339	.005378	.001026	.1794741	.000997	.000723
%RSD	157.7659	214.0814	74.13143	210.4536	34.65508	14.69804
#1	-.022583	-.004614	-.002350	.0026907	-.001758	-.004791
#2	-.045738	-.006521	-.001497	.2911805	-.003670	-.004264
#3	.012532	.003599	-.000306	-.038032	-.003205	-.005693

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165726BL Acquired: 01/03/2025 21:10:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS726 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000350	-.013565	-.003523	F -.018205	-.004076	.0000109
Stddev	.000740	.001043	.000354	.002480	.002679	.0000723
%RSD	211.5852	7.686954	10.03570	13.62162	65.71467	664.5559
#1	-.001144	-.013743	-.003275	-.020831	-.005243	.0000700
#2	-.000225	-.012445	-.003928	-.017879	-.001012	-.000070
#3	.000320	-.014508	-.003367	-.015904	-.005973	.000032

Elem	Li6707
Units	ppm
Avg	-.011445
Stddev	.004145
%RSD	36.21468
#1	-.014687
#2	-.012874
#3	-.006775

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1870.577	19171.22	1862.510	1413.518	2071.534
Stddev	2.925	109.86	4.423	7.413	3.562
%RSD	.1563741	.5730559	.2374633	.5244594	.1719376
#1	1867.224	19297.38	1866.752	1422.031	2067.421
#2	1872.607	19096.62	1862.851	1408.488	2073.547
#3	1871.900	19119.66	1857.927	1410.034	2073.633

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165726BS Acquired: 01/03/2025 21:14:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS726 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0201319	.0511919	.0166744	.0591416	.1070009	.3969919
Stddev	.0036683	.0032512	.0022113	.0015472	.0009282	.0566595
%RSD	18.22127	6.351019	13.26186	2.616019	.8674373	14.27221
#1	.0232231	.0521652	.0141368	.0573621	.1064678	.3348383
#2	.0210941	.0475653	.0176976	.0598949	.1064622	.4103770
#3	.0160784	.0538454	.0181889	.0601678	.1080726	.4457604

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4092805	.0104986	.0097026	10.05507	.0208103	.0992810
Stddev	.0004044	.0000479	.0002135	.07247	.0007031	.0009030
%RSD	.0988145	.4558325	2.200784	.7207401	3.378452	.9095181
#1	.4094074	.0105157	.0097525	10.00277	.0216220	.1002007
#2	.4088278	.0105355	.0094685	10.13779	.0204150	.0983957
#3	.4096063	.0104445	.0098868	10.02464	.0203939	.0992466

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0464451	.2203678	.0376027	10.19974	.0779905	.0196362
Stddev	.0048056	.0753433	.0012366	.04542	.0006425	.0013925
%RSD	10.34684	34.18979	3.288527	.4453248	.8237976	7.091331
#1	.0411742	.1337410	.0361852	10.24318	.0786704	.0194047
#2	.0505830	.2706425	.0384605	10.15256	.0773934	.0211299
#3	.0475779	.2567199	.0381623	10.20347	.0779076	.0183740

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.388636	.0967706	.1141049	9.363015	.0194080	F -.004261
Stddev	.021457	.0104000	.0016504	.107990	.0007191	.000857
%RSD	.2904061	10.74701	1.446420	1.153368	3.705066	20.12095
#1	7.410687	.1020420	.1155004	9.287337	.0185804	-.003523
#2	7.387394	.0847905	.1145310	9.486682	.0198809	-.005202
#3	7.367827	.1034793	.1122831	9.315025	.0197625	-.004059

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165726BS Acquired: 01/03/2025 21:14:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS726 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0195964	.1635591	F .4851040	F -.004972	.1971110	.2082546
Stddev	.0007956	.0057810	.0036169	.001007	.0065066	.0005582
%RSD	4.059909	3.534486	.7455945	20.25306	3.300962	.2680555
#1	.0193989	.1598898	.4886558	-.004473	.1931485	.2088988
#2	.0204721	.1702230	.4814253	-.006131	.2046203	.2079123
#3	.0189181	.1605645	.4852310	-.004312	.1935642	.2079528

Elem	Li6707
Units	ppm
Avg	F .0201192
Stddev	.0033442
%RSD	16.62212
#1	.0162576
#2	.0220394
#3	.0220607

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1829.210	18935.45	1825.782	1393.709	2024.040
Stddev	14.361	235.99	8.082	12.818	12.103
%RSD	.7851115	1.246296	.4426473	.9197100	.5979476
#1	1812.725	18814.76	1817.798	1384.308	2010.101
#2	1835.899	18784.21	1833.958	1388.509	2031.879
#3	1839.008	19207.38	1825.589	1408.310	2030.141

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165741BL Acquired: 01/03/2025 21:18:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS741 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028066	-.001534	-.000279	.0078581	-.001148	-.011688
Stddev	.0027792	.003935	.000735	.0013628	.002137	.038452
%RSD	99.02246	256.5339	263.6892	17.34275	186.1053	329.0020
#1	.0044045	.001592	.000316	.0068360	.001305	.012257
#2	.0044179	-.000241	-.001101	.0094053	-.002149	-.056042
#3	-.000403	-.005952	-.000051	.0073328	-.002601	.008722

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006544	-.000036	.0000167	-.043454	-.000676	-.000254
Stddev	.001348	.000105	.0000478	.033954	.000465	.000129
%RSD	20.59609	291.8183	285.9200	78.13789	68.77573	50.87765
#1	-.006351	-.000039	.0000448	-.081760	-.000802	-.000402
#2	-.007978	-.000140	-.000039	-.017063	-.001065	-.000163
#3	-.005304	.000071	.000044	-.031539	-.000161	-.000197

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002873	.0195204	.0050555	-.043438	-.001068	.0009810
Stddev	.010357	.0354275	.0015175	.077127	.001058	.0009717
%RSD	360.4446	181.4895	30.01700	177.5552	99.09129	99.04729
#1	.008919	.0491276	.0036090	-.132268	-.002261	.0013595
#2	-.010491	.0291642	.0049223	-.004535	-.000701	-.000123
#3	-.007048	-.019730	.0066352	.006489	-.000242	.001706

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.016803	-.010219	-.000731	-.142460	-.000363	-.004251
Stddev	.012126	.007504	.000378	.088907	.001519	.001011
%RSD	72.16890	73.43067	51.71401	62.40848	418.4705	23.77731
#1	-.029094	-.018030	-.001123	-.135118	-.001180	-.003469
#2	-.016464	-.009562	-.000369	-.234810	.001390	-.005392
#3	-.004849	-.003065	-.000699	-.057451	-.001299	-.003891

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165741BL Acquired: 01/03/2025 21:18:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS741 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000466	-.013487	-.002103	F -.018243	-.006107	-.000238
Stddev	.000181	.000862	.000437	.001868	.004181	.000390
%RSD	38.95781	6.394876	20.78784	10.23976	68.47200	164.0958
#1	-.000274	-.014063	-.001642	-.016171	-.010614	-.000598
#2	-.000489	-.012495	-.002157	-.018761	-.005352	-.000292
#3	-.000635	-.013902	-.002511	-.019798	-.002354	.000177

Elem	Li6707
Units	ppm
Avg	-.008137
Stddev	.005471
%RSD	67.23521
#1	-.005449
#2	-.014432
#3	-.004530

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1845.947	18819.27	1820.826	1386.754	2038.714
Stddev	4.542	74.42	5.392	4.016	4.268
%RSD	.2460514	.3954398	.2961311	.2895967	.2093690
#1	1851.103	18806.82	1824.458	1385.319	2042.684
#2	1844.201	18751.87	1814.631	1383.652	2039.259
#3	1842.538	18899.14	1823.390	1391.290	2034.199

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165741BS Acquired: 01/03/2025 21:22:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS741 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0231362	.0465857	.0156790	.0597945	.1068443	.3678857
Stddev	.0031001	.0052898	.0023458	.0048781	.0006639	.0412261
%RSD	13.39953	11.35501	14.96148	8.158020	.6213239	11.20622
#1	.0251430	.0456244	.0139500	.0642386	.1068533	.4048620
#2	.0195656	.0418424	.0183492	.0545754	.1075036	.3753620
#3	.0247000	.0522902	.0147377	.0605695	.1061760	.3234330

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4010575	.0104981	.0097263	10.09915	.0210063	.0998132
Stddev	.0037121	.0000604	.0000153	.05437	.0003633	.0000941
%RSD	.9255742	.5750202	.1573812	.5383648	1.729569	.0942599
#1	.4052068	.0105674	.0097089	10.04641	.0213783	.0999144
#2	.3999144	.0104696	.0097327	10.09603	.0209883	.0997283
#3	.3980515	.0104572	.0097374	10.15502	.0206523	.0997970

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0494668	.1862434	.0359720	10.28477	.0769999	.0202399
Stddev	.0058574	.0218105	.0035782	.07925	.0000622	.0009968
%RSD	11.84100	11.71075	9.947154	.7705484	.0807212	4.924932
#1	.0428902	.1911317	.0370158	10.34773	.0769811	.0191691
#2	.0513877	.2051949	.0319880	10.19578	.0769493	.0204097
#3	.0541225	.1624035	.0389123	10.31079	.0770693	.0211408

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.422465	.0938242	.1157250	9.334832	.0188295	F -.007557
Stddev	.023932	.0064712	.0013875	.125041	.0017954	.002007
%RSD	.3224230	6.897152	1.198926	1.339509	9.534840	26.55466
#1	7.406393	.0991584	.1157707	9.283753	.0173018	-.005242
#2	7.449969	.0956889	.1143153	9.243416	.0208070	-.008806
#3	7.411033	.0866254	.1170891	9.477326	.0183798	-.008623

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165741BS Acquired: 01/03/2025 21:22:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS741 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0192335	.1693809	F .4864442	F -.003757	.1910595	.2085618
Stddev	.0002389	.0021803	.0020168	.000621	.0031300	.0008881
%RSD	1.241961	1.287207	.4146097	16.52918	1.638213	.4258380
#1	.0190363	.1697837	.4878773	-.003926	.1899100	.2082207
#2	.0194991	.1713317	.4873174	-.003069	.1946017	.2095700
#3	.0191650	.1670273	.4841379	-.004276	.1886668	.2078948

Elem	Li6707
Units	ppm
Avg	F .0171404
Stddev	.0030450
%RSD	17.76506
#1	.0205522
#2	.0161707
#3	.0146983

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1830.350	18729.67	1820.916	1376.112	2027.432
Stddev	6.089	35.02	4.188	3.926	5.565
%RSD	.3326800	.1869886	.2299889	.2853048	.2744819
#1	1830.896	18739.44	1819.934	1379.234	2023.823
#2	1824.007	18758.76	1817.306	1377.397	2024.633
#3	1836.149	18690.80	1825.508	1371.704	2033.841

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5058-03DLX2 Acquired: 01/03/2025 21:26:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL82 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0235040	.0190437	.1159366	.0019592	.0088242	27.13311	.1766855
Stddev	.0019599	.0046577	.0002769	.0065209	.0046760	.22586	.0013049
%RSD	8.338693	24.45801	.2388241	332.8305	52.99041	.8324014	.7385551
#1	.0255828	.0168985	.1159996	.0085165	.0142227	27.30629	.1781316
#2	.0232394	.0243875	.1156337	-.004525	.0062076	27.21538	.1763292
#3	.0216899	.0158452	.1161766	.001886	.0060423	26.87765	.1755957

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024074	.0014614	536.4161	.0411421	.0743134	.1483414	74.97188
Stddev	.0001073	.0000857	2.0489	.0015405	.0002724	.0125589	.16077
%RSD	4.456465	5.862271	.3819627	3.744312	.3665461	8.466226	.2144452
#1	.0024852	.0013862	537.5660	.0393641	.0739995	.1623939	75.10943
#2	.0024520	.0014434	537.6318	.0419836	.0744887	.1382133	75.01110
#3	.0022850	.0015546	534.0506	.0420785	.0744518	.1444171	74.79513

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.969102	135.9789	.0672690	-.004736	.9942176	.0791702	.3183849
Stddev	.025500	.7652	.0001919	.001025	.0182890	.0085324	.0020538
%RSD	.5131635	.5627224	.2852840	21.63357	1.839535	10.77732	.6450811
#1	4.986039	136.4580	.0670764	-.004803	1.011355	.0863417	.3201460
#2	4.981492	136.3822	.0674602	-.005725	.974962	.0697339	.3161288
#3	4.939775	135.0964	.0672702	-.003680	.996336	.0814350	.3188800

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.138769	5.255769	-.147256	.0040878	.6632090	7.010219	.0139784
Stddev	.160043	.025434	.004610	.0012057	.0041015	.038785	.0017967
%RSD	3.866925	.4839268	3.130703	29.49455	.6184333	.5532583	12.85340
#1	4.322899	5.251868	-.141934	.0050706	.6589458	6.982549	.0122212
#2	4.060336	5.232510	-.150002	.0044503	.6635543	7.054551	.0139019
#3	4.033071	5.282927	-.149833	.0027424	.6671270	6.993559	.0158122

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5058-03DLX2 Acquired: 01/03/2025 21:26:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL82 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5448318	.4213848	.0570086
Stddev	.0065876	.0025823	.0016931
%RSD	1.209117	.6128191	2.969918
#1	.5523162	.4238235	.0589621
#2	.5422662	.4216513	.0560998
#3	.5399129	.4186795	.0559640

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1903.424	19689.92	1953.347	1434.002	1751.183
Stddev	6.530	103.64	17.273	6.216	6.592
%RSD	.3430653	.5263503	.8842661	.4334732	.3764336
#1	1910.592	19686.90	1956.934	1426.880	1756.388
#2	1901.866	19587.83	1934.562	1436.788	1753.391
#3	1897.814	19795.04	1968.544	1438.336	1743.771

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5058-04DLX2 Acquired: 01/03/2025 21:30:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL82D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0208657	.0199406	.1135552	.0003559	.0119603	26.33030	.1720297
Stddev	.0006790	.0040906	.0029808	.0048149	.0058102	.14198	.0015972
%RSD	3.254207	20.51382	2.625002	1352.890	48.57898	.5392399	.9284349
#1	.0206519	.0206986	.1126982	-.002827	.0165561	26.49425	.1733088
#2	.0216258	.0235991	.1110967	.005895	.0054295	26.24818	.1702395
#3	.0203193	.0155240	.1168706	-.002000	.0138954	26.24846	.1725406

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024092	.0015780	524.0458	.0397867	.0732159	.1477705	73.28918
Stddev	.0001185	.0000641	1.9385	.0006189	.0006544	.0016875	.23495
%RSD	4.918355	4.063884	.3699072	1.555485	.8937679	1.141987	.3205839
#1	.0025415	.0015329	522.1083	.0395317	.0724619	.1490377	73.28961
#2	.0023128	.0015496	525.9853	.0404923	.0736352	.1484188	73.52392
#3	.0023735	.0016514	524.0437	.0393360	.0735506	.1458549	73.05401

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.849601	132.6677	.0642991	-.004468	.9572028	.0533082	.3144629
Stddev	.007423	.1385	.0007087	.000719	.0196629	.0146410	.0028605
%RSD	.1530595	.1043588	1.102137	16.09391	2.054201	27.46476	.9096474
#1	4.845527	132.5755	.0637992	-.005233	.9704863	.0619588	.3152912
#2	4.858169	132.6006	.0639881	-.004366	.9346145	.0364038	.3112796
#3	4.845108	132.8269	.0651101	-.003806	.9665074	.0615620	.3168178

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.272571	5.123865	-.140897	.0048860	.6466849	6.727525	.0114116
Stddev	.114596	.012202	.001350	.0004360	.0037959	.061865	.0018712
%RSD	2.682132	.2381326	.9579290	8.923552	.5869738	.9195788	16.39735
#1	4.262005	5.111820	-.139930	.0043882	.6462534	6.794177	.0127122
#2	4.392084	5.136217	-.140323	.0052002	.6431233	6.671941	.0122555
#3	4.163624	5.123558	-.142439	.0050696	.6506781	6.716456	.0092671

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5058-04DLX2 Acquired: 01/03/2025 21:30:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL82D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5208268	.4120516	.0525132
Stddev	.0038289	.0010323	.0026436
%RSD	.7351684	.2505174	5.034078
#1	.5252119	.4109610	.0501737
#2	.5181452	.4121804	.0519850
#3	.5191233	.4130134	.0553810

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1886.447	19561.10	1960.350	1423.242	1745.832
Stddev	6.169	58.03	13.714	5.111	6.088
%RSD	.3270182	.2966690	.6995461	.3591404	.3487016
#1	1887.042	19588.73	1945.528	1420.464	1748.496
#2	1892.298	19494.42	1972.587	1429.141	1750.133
#3	1880.003	19600.16	1962.936	1420.122	1738.866

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5058-03DLX10 Acquired: 01/03/2025 21:34:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL82L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0062556	.0204715	.0279496	-.020525	.0015833	5.892354	.0348348
Stddev	.0052034	.0044459	.0031681	.004391	.0037514	.014705	.0015597
%RSD	83.18100	21.71751	11.33493	21.39489	236.9284	.2495591	4.477570
#1	.0030290	.0166050	.0301097	-.021265	-.002472	5.897221	.0364160
#2	.0034793	.0253294	.0243127	-.024499	.004929	5.904008	.0347909
#3	.0122583	.0194800	.0294263	-.015811	.002293	5.875833	.0332974

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005154	.0002652	118.7278	.0094141	.0350656	.0267587	16.82775
Stddev	.0000471	.0001369	.6657	.0003570	.0003341	.0108798	.11322
%RSD	9.139396	51.64232	.5607344	3.791961	.9528966	40.65884	.6728365
#1	.0005200	.0002221	119.4461	.0094681	.0353729	.0212980	16.94354
#2	.0005601	.0004185	118.6060	.0097410	.0347099	.0196908	16.82243
#3	.0004662	.0001550	118.1314	.0090332	.0351141	.0392872	16.71728

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.121189	30.92831	.0102596	.0001137	.1890117	.0202640	.0764523
Stddev	.007759	.18287	.0003489	.0014950	.0104496	.0076353	.0007745
%RSD	.6920097	.5912839	3.400923	1314.638	5.528529	37.67894	1.013014
#1	1.127010	31.13269	.0106428	-.001587	.1802319	.0210605	.0759512
#2	1.124175	30.87208	.0101759	.000708	.2005696	.0122617	.0773443
#3	1.112380	30.78015	.0099602	.001220	.1862337	.0274698	.0760614

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8958162	1.005721	-.040085	.0042879	.1278485	1.540849	.0067238
Stddev	.2225427	.004388	.004030	.0008452	.0074553	.007515	.0017133
%RSD	24.84245	.4363257	10.05283	19.71113	5.831378	.4877369	25.48071
#1	.6737846	1.004321	-.040986	.0044420	.1239311	1.549526	.0048072
#2	.8947977	1.010639	-.035681	.0050454	.1364459	1.536637	.0081067
#3	1.118866	1.002204	-.043588	.0033762	.1231685	1.536384	.0072574

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5058-03DLX10 Acquired: 01/03/2025 21:34:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL82L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1103158	.0917972	.0024886
Stddev	.0031508	.0008581	.0061230
%RSD	2.856174	.9347541	246.0441
#1	.1138980	.0927875	-.002756
#2	.1079739	.0912743	.001004
#3	.1090755	.0913298	.009217

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1826.652	18791.71	1824.619	1379.250	1908.179
Stddev	6.496	80.45	12.481	11.632	7.810
%RSD	.3556212	.4281108	.6840110	.8433770	.4092795
#1	1819.341	18756.51	1812.002	1373.129	1900.459
#2	1831.759	18734.86	1824.894	1371.956	1916.076
#3	1828.856	18883.76	1836.959	1392.665	1908.003

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5058-05DLX2 Acquired: 01/03/2025 21:38:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL82S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1127930	.1024849	.1530888	.1615863	.1759474	30.23801	3.854674
Stddev	.0042677	.0022104	.0021310	.0026501	.0036029	.28609	.022518
%RSD	3.783641	2.156767	1.392024	1.640067	2.047698	.9461285	.5841752
#1	.1141051	.1026576	.1510678	.1588011	.1731594	29.90785	3.832735
#2	.1162506	.1001932	.1528836	.1640766	.1800155	30.39351	3.877729
#3	.1080233	.1046038	.1553150	.1618813	.1746673	30.41268	3.853557

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0965363	.1015768	532.2494	.4191243	1.059068	.5774872	76.17358
Stddev	.0003789	.0002372	2.9087	.0011064	.001435	.0060793	.61108
%RSD	.3924691	.2335369	.5464864	.2639890	.1355142	1.052711	.8022200
#1	.0961317	.1014196	529.2799	.4187487	1.059177	.5705026	75.48870
#2	.0965945	.1014611	535.0932	.4203696	1.057581	.5815874	76.66307
#3	.0968827	.1018497	532.3750	.4182546	1.060445	.5803715	76.36896

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.842711	134.8271	1.076161	.0625600	.9507669	.9952649	1.141485
Stddev	.036908	1.0358	.002474	.0007531	.0268086	.0025323	.003309
%RSD	.6316924	.7682063	.2298851	1.203754	2.819685	.2544369	.2898553
#1	5.800302	133.6326	1.075095	.0626272	.9480069	.9938713	1.137671
#2	5.867562	135.4750	1.074400	.0632772	.9788487	.9937356	1.143199
#3	5.860269	135.3738	1.078990	.0617756	.9254450	.9981880	1.143585

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.224687	5.192340	-.147968	.0045431	.6573855	6.875674	.0136315
Stddev	.058955	.012928	.000819	.0003371	.0044598	.044386	.0027685
%RSD	1.395492	.2489783	.5536082	7.419914	.6784194	.6455453	20.30937
#1	4.165220	5.189341	-.147022	.0048338	.6548417	6.824552	.0112853
#2	4.225724	5.181175	-.148432	.0041736	.6625351	6.904388	.0129243
#3	4.283117	5.206504	-.148449	.0046220	.6547796	6.898082	.0166850

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5058-05DLX2 Acquired: 01/03/2025 21:38:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL82S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5310611	.4161045	.0554383
Stddev	.0134218	.0032771	.0002756
%RSD	2.527352	.7875673	.4972070
#1	.5156741	.4127209	.0555433
#2	.5403594	.4192636	.0556460
#3	.5371497	.4163290	.0551256

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1889.099	19596.19	1940.200	1421.862	1749.086
Stddev	2.243	27.78	12.236	.568	1.070
%RSD	.1187582	.1417499	.6306707	.0399521	.0611977
#1	1890.839	19586.14	1953.873	1422.200	1749.546
#2	1886.567	19574.84	1930.280	1421.206	1747.863
#3	1889.891	19627.60	1936.446	1422.181	1749.850

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5058-06DLX2 Acquired: 01/03/2025 21:42:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL83 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0263181	.0242787	.1247431	-.007376	.0055282	20.42231	.1647631
Stddev	.0023624	.0027721	.0023215	.002954	.0022047	.09949	.0050958
%RSD	8.976480	11.41780	1.861068	40.05041	39.88152	.4871617	3.092821
#1	.0287856	.0253061	.1268995	-.004794	.0033212	20.41601	.1674220
#2	.0260917	.0263904	.1250441	-.006737	.0077307	20.32612	.1588877
#3	.0240771	.0211396	.1222857	-.010597	.0055328	20.52480	.1679795

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021031	.0013336	474.4691	.0370122	.0621199	.1041338	61.89251
Stddev	.0000807	.0001541	2.5068	.0005265	.0000900	.0029634	.23730
%RSD	3.835836	11.55639	.5283326	1.422480	.1448369	2.845766	.3834130
#1	.0020396	.0012899	475.8035	.0369593	.0620654	.1007946	61.99305
#2	.0020760	.0012060	471.5774	.0365142	.0622238	.1051560	61.62148
#3	.0021939	.0015048	476.0263	.0375632	.0620706	.1064508	62.06298

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.945597	54.55961	.0465242	-.001620	.6739761	.0551515	.2774679
Stddev	.012664	.12258	.0007560	.000873	.0201792	.0024650	.0003699
%RSD	.4299441	.2246710	1.625077	53.88602	2.994047	4.469522	.1333171
#1	2.945994	54.49409	.0464750	-.000632	.6558671	.0547166	.2771142
#2	2.932739	54.48372	.0473037	-.001939	.6703322	.0529329	.2778522
#3	2.958058	54.70103	.0457940	-.002288	.6957289	.0578050	.2774373

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.325828	2.757312	-.115066	.0047287	.5300995	5.596322	.0086803
Stddev	.167921	.005910	.002285	.0007704	.0036158	.042967	.0014332
%RSD	5.048987	.2143366	1.985876	16.29091	.6820931	.7677662	16.51083
#1	3.519700	2.763261	-.114183	.0056137	.5259411	5.631357	.0098771
#2	3.231626	2.757232	-.113354	.0042087	.5318557	5.548382	.0090716
#3	3.226158	2.751442	-.117661	.0043637	.5325017	5.609228	.0070920

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5058-06DLX2 Acquired: 01/03/2025 21:42:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL83 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2043839	.4084279	.0305972
Stddev	.0036058	.0032217	.0022127
%RSD	1.764212	.7888114	7.231576
#1	.2002312	.4079460	.0285961
#2	.2067201	.4054743	.0302220
#3	.2062005	.4118635	.0329735

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1869.527	19248.03	1904.871	1407.322	1797.117
Stddev	5.892	85.71	8.868	4.136	6.906
%RSD	.3151361	.4453067	.4655611	.2938609	.3842796
#1	1867.774	19274.95	1895.299	1409.372	1794.296
#2	1864.711	19152.09	1912.808	1402.561	1792.068
#3	1876.096	19317.05	1906.506	1410.031	1804.987

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5058-20DLX2 Acquired: 01/03/2025 21:45:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLA4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0320606	.0208687	.1313557	-.005232	.0086001	20.44181	.2785463
Stddev	.0012644	.0057131	.0018236	.001719	.0043618	.06541	.0033662
%RSD	3.943798	27.37648	1.388281	32.85043	50.71768	.3199876	1.208502
#1	.0306076	.0206416	.1324568	-.007187	.0044692	20.42200	.2792417
#2	.0326632	.0152726	.1323595	-.004552	.0081701	20.38859	.2815105
#3	.0329110	.0266921	.1292507	-.003958	.0131609	20.51483	.2748867

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020256	.0013858	499.9387	.0372593	.0682070	.1883616	68.26305
Stddev	.0000994	.0000373	1.7230	.0001429	.0003138	.0062322	.32881
%RSD	4.904965	2.694800	.3446401	.3834482	.4600598	3.308640	.4816800
#1	.0020355	.0014189	498.9665	.0373936	.0680249	.1874906	67.92301
#2	.0021196	.0013453	498.9216	.0371092	.0685693	.1949835	68.28680
#3	.0019217	.0013932	501.9281	.0372751	.0680266	.1826107	68.57934

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.682215	58.38148	.0617102	-.003929	.6840010	.0510418	.2152796
Stddev	.036288	.23455	.0016594	.000658	.0143547	.0119667	.0007666
%RSD	.6386196	.4017481	2.689038	16.75784	2.098634	23.44492	.3561077
#1	5.656453	58.17369	.0604309	-.003354	.6713960	.0374735	.2158193
#2	5.666477	58.33494	.0611144	-.004647	.6809819	.0600903	.2144021
#3	5.723715	58.63580	.0635852	-.003785	.6996251	.0555617	.2156175

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.856739	5.576652	-.130402	.0060854	.5203782	5.883996	.0132965
Stddev	.138401	.016857	.000343	.0010877	.0095310	.025136	.0024883
%RSD	3.588557	.3022831	.2630748	17.87446	1.831549	.4271877	18.71418
#1	3.697582	5.587442	-.130674	.0053827	.5273316	5.854972	.0149219
#2	3.923801	5.557227	-.130016	.0055352	.5242892	5.898425	.0104318
#3	3.948835	5.585288	-.130516	.0073383	.5095139	5.898591	.0145356

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5058-20DLX2 Acquired: 01/03/2025 21:45:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLA4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2952335	.4451901	.0416426
Stddev	.0054079	.0014188	.0036207
%RSD	1.831746	.3187032	8.694729
#1	.3014224	.4449472	.0406315
#2	.2928598	.4439085	.0456614
#3	.2914184	.4467148	.0386349

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1900.608	19608.45	1936.913	1433.734	1799.240
Stddev	2.954	85.71	5.878	8.431	2.243
%RSD	.1554364	.4370951	.3034925	.5880446	.1246392
#1	1903.976	19511.47	1942.298	1424.005	1801.450
#2	1899.390	19674.04	1930.642	1438.909	1799.305
#3	1898.457	19639.82	1937.800	1438.287	1796.966

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5054-20DLX5 Acquired: 01/03/2025 21:49:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKW2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0131633	.0268027	.0804715	-.021133	.0014117	9.479435	.1546106
Stddev	.0047553	.0020895	.0058927	.004819	.0027891	.113080	.0021534
%RSD	36.12564	7.796068	7.322657	22.80219	197.5799	1.192898	1.392756
#1	.0076729	.0256708	.0833731	-.019547	.0022531	9.555738	.1530866
#2	.0158386	.0292140	.0843507	-.026545	.0036832	9.349520	.1570740
#3	.0159784	.0255232	.0736907	-.017307	-.001701	9.533047	.1536711

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010394	.0006371	410.4339	.0180865	.0498499	.0547706	32.37042
Stddev	.0001344	.0001332	.7120	.0009083	.0008773	.0063019	.23024
%RSD	12.93615	20.91310	.1734648	5.022019	1.759959	11.50593	.7112717
#1	.0010478	.0004859	410.1738	.0187921	.0499096	.0607615	32.58359
#2	.0009009	.0006879	409.8886	.0170617	.0506959	.0481981	32.12625
#3	.0011695	.0007375	411.2394	.0184057	.0489442	.0553523	32.40141

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.515278	55.40974	.0248824	-.000920	.3894628	.0247198	.1076014
Stddev	.013227	.29566	.0011130	.002320	.0172229	.0064053	.0006480
%RSD	.5258666	.5335914	4.473021	252.3002	4.422230	25.91153	.6022141
#1	2.520966	55.38239	.0237346	.001707	.3938223	.0184740	.1069968
#2	2.500158	55.12871	.0259570	-.001774	.3704790	.0244118	.1075218
#3	2.524709	55.71813	.0249556	-.002691	.4040871	.0312735	.1082854

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.051735	1.237860	-.063597	.0049939	.4138883	2.473048	.0113779
Stddev	.119431	.004421	.002891	.0009617	.0027322	.025371	.0022419
%RSD	5.820996	.3571812	4.546468	19.25704	.6601383	1.025908	19.70381
#1	2.181034	1.240990	-.066454	.0046871	.4170084	2.500282	.0130482
#2	1.945550	1.232802	-.060673	.0042231	.4119234	2.450080	.0088299
#3	2.028620	1.239788	-.063666	.0060716	.4127331	2.468782	.0122554

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5054-20DLX5 Acquired: 01/03/2025 21:49:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKW2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0911591	.2643308	.0123384
Stddev	.0019638	.0008425	.0039249
%RSD	2.154246	.3187233	31.81044
#1	.0889357	.2649229	.0092306
#2	.0918850	.2633663	.0167491
#3	.0926566	.2647032	.0110356

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1802.966	18636.70	1826.141	1361.372	1831.433
Stddev	.923	47.78	11.162	5.607	1.821
%RSD	.0511957	.2564013	.6112206	.4118887	.0994062
#1	1803.563	18691.79	1815.612	1367.817	1831.737
#2	1801.903	18606.54	1837.843	1357.613	1829.479
#3	1803.433	18611.75	1824.968	1358.686	1833.082

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5054-21DLX2 Acquired: 01/03/2025 21:53:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKW3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0156668	.0273678	.0999445	-.020996	.0047557	16.01786	.2079455
Stddev	.0050378	.0031618	.0027517	.007057	.0034953	.04731	.0015225
%RSD	32.15600	11.55316	2.753216	33.61199	73.49678	.2953564	.7321860
#1	.0144656	.0260214	.1012327	-.021384	.0025213	15.99254	.2087031
#2	.0113381	.0251021	.1018159	-.013753	.0087837	16.07244	.2061927
#3	.0211966	.0309800	.0967851	-.027852	.0029622	15.98860	.2089405

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015513	.0019822	627.5902	.0361885	.0620376	.0595619	43.84118
Stddev	.0002751	.0001319	.9849	.0002754	.0002975	.0058572	.33696
%RSD	17.73121	6.652750	.1569361	.7609419	.4795985	9.833791	.7686038
#1	.0014596	.0021212	626.9674	.0358712	.0619132	.0628982	43.90346
#2	.0018605	.0019664	628.7257	.0363294	.0623771	.0527988	44.14265
#3	.0013338	.0018589	627.0775	.0363649	.0618224	.0629887	43.47741

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.174717	33.35394	.0497147	-.002480	.4543293	.0296529	.1539042
Stddev	.035534	.11737	.0011812	.001040	.0230698	.0125956	.0004451
%RSD	.5754714	.3518796	2.375861	41.92848	5.077759	42.47684	.2891780
#1	6.154441	33.31975	.0506600	-.002704	.4797846	.0291214	.1540640
#2	6.215746	33.48460	.0500934	-.003390	.4348020	.0425058	.1534013
#3	6.153962	33.25746	.0483906	-.001347	.4484014	.0173314	.1542473

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.338472	1.888312	-.071365	.0038843	.5061995	5.281642	.0108675
Stddev	.252610	.007535	.001345	.0011879	.0086938	.010801	.0014621
%RSD	4.731873	.3990347	1.885271	30.58200	1.717472	.2044971	13.45366
#1	5.088133	1.890370	-.069893	.0026994	.4993904	5.286242	.0122723
#2	5.593293	1.879962	-.072530	.0038784	.5159923	5.289381	.0093542
#3	5.333989	1.894604	-.071673	.0050752	.5032158	5.269302	.0109758

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5054-21DLX2 Acquired: 01/03/2025 21:53:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKW3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1980901	.3858753	.0299527
Stddev	.0068401	.0001005	.0031706
%RSD	3.453020	.0260440	10.58532
#1	.2005520	.3859834	.0270900
#2	.2033585	.3857847	.0333605
#3	.1903599	.3858577	.0294075

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1876.067	19387.13	1910.893	1420.405	1804.037
Stddev	5.138	15.68	7.608	7.358	4.424
%RSD	.2738654	.0809013	.3981643	.5180537	.2452336
#1	1877.280	19370.19	1907.544	1412.884	1805.581
#2	1880.489	19390.05	1905.533	1420.741	1807.483
#3	1870.431	19401.15	1919.601	1427.590	1799.049

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5056-20 Acquired: 01/03/2025 21:57:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0575916	.0052586	.3077626	.0339479	.0273399	53.12031
Stddev	.0028872	.0005596	.0036769	.0084144	.0026716	.05949
%RSD	5.013176	10.64096	1.194721	24.78628	9.771647	.1119950
#1	.0583036	.0048013	.3035229	.0427745	.0304174	53.16419
#2	.0600562	.0058825	.3100778	.0260174	.0259854	53.05260
#3	.0544151	.0050919	.3096872	.0330516	.0256168	53.14414

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6397460	.0045528	.0027828	F 832.0689	.0832460	.1126106
Stddev	.0038946	.0001259	.0000171	2.4550	.0002571	.0009909
%RSD	.6087643	2.766147	.6157801	.2950439	.3088962	.8799269
#1	.6369041	.0044811	.0027870	829.3468	.0829730	.1129724
#2	.6381486	.0046982	.0027639	832.7448	.0834836	.1114897
#3	.6441853	.0044791	.0027974	834.1151	.0832814	.1133698

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1482740	146.7561	8.411857	189.6203	.1613659	-.007802
Stddev	.0052309	.3527	.015094	.7573	.0014696	.000040
%RSD	3.527871	.2403604	.1794396	.3993998	.9107349	.5146169
#1	.1481382	147.1592	8.428602	190.4889	.1602024	-.007813
#2	.1431122	146.5039	8.407671	189.2743	.1608778	-.007835
#3	.1535714	146.6052	8.399297	189.0978	.1630175	-.007757

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.264183	.1192907	.4542616	6.913638	4.652343	-.282962
Stddev	.016731	.0152409	.0054474	.147731	.013098	.002454
%RSD	1.323456	12.77630	1.199175	2.136800	.2815294	.8671540
#1	1.278083	.1016979	.4571918	6.941277	4.639112	-.285502
#2	1.245614	.1284803	.4479763	7.045597	4.652615	-.280605
#3	1.268854	.1276939	.4576168	6.754039	4.665303	-.282780

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5056-20 Acquired: 01/03/2025 21:57:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042576	1.312975	12.84537	.0190670	.7412029	.6552628
Stddev	.0008200	.006610	.09624	.0018684	.0021266	.0005630
%RSD	19.25904	.5034301	.7492341	9.799335	.2869175	.0859138
#1	.0039132	1.317047	12.94588	.0175754	.7426169	.6559126
#2	.0051936	1.305348	12.75406	.0211628	.7387572	.6549228
#3	.0036660	1.316529	12.83615	.0184628	.7422346	.6549530

Elem	Li6707
Units	ppm
Avg	.1044546
Stddev	.0034876
%RSD	3.338835
#1	.1030398
#2	.1018967
#3	.1084272

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1919.273	19978.58	1994.371	1449.025	1723.641
Stddev	3.681	71.15	4.982	1.224	6.028
%RSD	.1917960	.3561378	.2497954	.0845043	.3497119
#1	1921.584	20060.54	1992.651	1450.339	1729.046
#2	1921.207	19942.49	1990.477	1448.818	1724.738
#3	1915.028	19932.70	1999.985	1447.917	1717.141

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5056-21 Acquired: 01/03/2025 22:01:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0584608	-.001502	.3010065	.0352360	.0288842	52.89555
Stddev	.0045561	.001397	.0018213	.0049847	.0022648	.10482
%RSD	7.793478	93.06071	.6050761	14.14646	7.841124	.1981661
#1	.0536316	-.000032	.2998674	.0310706	.0309029	52.81836
#2	.0626830	-.001660	.3000451	.0338787	.0293146	52.85340
#3	.0590678	-.002813	.3031071	.0407588	.0264350	53.01488

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6369072	.0045826	.0027280	F 831.0730	.0826870	.1115051
Stddev	.0001790	.0001411	.0001142	1.2404	.0008467	.0005820
%RSD	.0281083	3.078488	4.185325	.1492547	1.023984	.5219363
#1	.6367005	.0045032	.0026435	829.9565	.0830776	.1119209
#2	.6370052	.0047455	.0026827	830.8542	.0832678	.1108400
#3	.6370158	.0044991	.0028579	832.4082	.0817155	.1117544

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1541733	146.0309	8.383451	188.7165	.1615640	-.008880
Stddev	.0045686	.2741	.005456	.1633	.0010792	.000678
%RSD	2.963310	.1876779	.0650780	.0865224	.6679679	7.630483
#1	.1500760	145.7417	8.377799	188.7296	.1627267	-.008811
#2	.1533441	146.0642	8.388686	188.8728	.1613709	-.009589
#3	.1590997	146.2868	8.383867	188.5470	.1605943	-.008239

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.246181	.1256923	.4549186	7.188200	4.627271	-.290169
Stddev	.023623	.0041706	.0028143	.096734	.011074	.002164
%RSD	1.895654	3.318147	.6186422	1.345737	.2393099	.7457664
#1	1.219265	.1277145	.4531153	7.108507	4.639167	-.292480
#2	1.255803	.1284663	.4581615	7.295828	4.625382	-.288191
#3	1.263475	.1208960	.4534789	7.160264	4.617263	-.289836

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5056-21 Acquired: 01/03/2025 22:01:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055090	1.304675	12.85043	.0192801	.7383918	.6543318
Stddev	.0007053	.006786	.00565	.0037531	.0063988	.0016516
%RSD	12.80226	.5201250	.0440005	19.46641	.8665827	.2524069
#1	.0050073	1.300716	12.85172	.0180474	.7312385	.6525279
#2	.0052043	1.300798	12.84424	.0234945	.7435705	.6557696
#3	.0063154	1.312510	12.85533	.0162983	.7403664	.6546979

Elem	Li6707
Units	ppm
Avg	.1022178
Stddev	.0053615
%RSD	5.245216
#1	.1058601
#2	.0960612
#3	.1047322

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1921.783	19977.14	1989.877	1449.831	1728.631
Stddev	4.383	80.24	6.259	9.441	4.054
%RSD	.2280759	.4016785	.3145622	.6512092	.2345094
#1	1920.204	20014.15	1995.469	1458.682	1725.650
#2	1918.408	19885.07	1983.115	1439.893	1726.995
#3	1926.736	20032.21	1991.047	1450.919	1733.247

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5056-20LX5 Acquired: 01/03/2025 22:05:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0068551	.0201341	.0659454	-.020348	.0043401	11.68936	.1391148
Stddev	.0007875	.0022608	.0019612	.002866	.0028115	.05847	.0020020
%RSD	11.48793	11.22889	2.974044	14.08412	64.77954	.5001823	1.439103
#1	.0071761	.0199247	.0640114	-.017233	.0057011	11.71039	.1397248
#2	.0074314	.0224924	.0658918	-.020940	.0062122	11.73440	.1407409
#3	.0059578	.0179853	.0679328	-.022872	.0011071	11.62329	.1368788

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010416	.0004637	186.0135	.0197168	.0451037	.0300737	32.92192
Stddev	.0002113	.0001189	.5715	.0010582	.0004479	.0149511	.19851
%RSD	20.29048	25.64948	.3072527	5.367153	.9930266	49.71471	.6029617
#1	.0008338	.0005742	185.5377	.0197819	.0453300	.0364529	32.92376
#2	.0010348	.0004790	186.6475	.0186275	.0445878	.0129912	33.11950
#3	.0012563	.0003378	185.8553	.0207410	.0453934	.0407771	32.72250

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.905533	42.88500	.0280383	-.001953	.2506042	.0165263	.1009131
Stddev	.008911	.04836	.0012368	.000297	.0220492	.0149292	.0006181
%RSD	.4676597	.1127665	4.411106	15.19455	8.798409	90.33588	.6125498
#1	1.897277	42.91810	.0273984	-.002061	.2753363	.0249443	.1002268
#2	1.914980	42.90740	.0294639	-.002180	.2330028	-.000711	.1014261
#3	1.904343	42.82950	.0272525	-.001617	.2434735	.025345	.1010865

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.342579	.8871050	-.070492	.0060749	.2485558	2.925947	.0094765
Stddev	.273973	.0038923	.000683	.0007168	.0074822	.016499	.0022745
%RSD	20.40645	.4387649	.9693837	11.79905	3.010286	.5639024	24.00110
#1	1.445533	.8906090	-.069946	.0060677	.2460388	2.941710	.0090672
#2	1.032044	.8829154	-.071259	.0067953	.2426566	2.927332	.0119279
#3	1.550161	.8877905	-.070273	.0053618	.2569720	2.908798	.0074345

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5056-20LX5 Acquired: 01/03/2025 22:05:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1611930	.1432868	.0166477
Stddev	.0027798	.0001978	.0021016
%RSD	1.724514	.1380679	12.62371
#1	.1596385	.1430966	.0150217
#2	.1595381	.1432723	.0190207
#3	.1644023	.1434915	.0159006

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1835.935	18937.11	1855.626	1388.767	1899.286
Stddev	4.167	96.23	6.109	8.605	7.227
%RSD	.2269512	.5081663	.3292178	.6196332	.3805313
#1	1837.552	18935.48	1848.971	1394.517	1899.437
#2	1839.051	19034.15	1856.930	1392.911	1906.437
#3	1831.203	18841.71	1860.979	1378.874	1891.985

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5056-22 Acquired: 01/03/2025 22:09:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1396300	.0869790	.3490215	.1872892	.1810880	55.75060
Stddev	.0031977	.0037341	.0042246	.0042600	.0020461	.24666
%RSD	2.290128	4.293096	1.210410	2.274575	1.129914	.4424371
#1	.1359578	.0869408	.3486188	.1920671	.1831155	55.80692
#2	.1411327	.0907321	.3534331	.1859135	.1811250	55.48064
#3	.1417996	.0832642	.3450127	.1838870	.1790237	55.96422

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.169320	.0945901	.1004662	F 821.8517	.4478793	1.083202
Stddev	.030893	.0016547	.0004147	5.0843	.0015456	.002408
%RSD	.7409490	1.749322	.4127793	.6186349	.3450920	.2222904
#1	4.195552	.0951851	.1003904	825.8340	.4493194	1.083220
#2	4.135269	.0927202	.1000946	816.1248	.4462463	1.080785
#3	4.177137	.0958651	.1009136	823.5962	.4480723	1.085601

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5597367	146.8066	9.196288	187.1251	1.152613	.0566918
Stddev	.0144554	.5705	.012446	1.2902	.002863	.0004942
%RSD	2.582537	.3885728	.1353411	.6894647	.2484055	.8717281
#1	.5719117	147.2452	9.199088	187.8469	1.153577	.0571952
#2	.5635379	146.1617	9.182680	185.6356	1.149392	.0562073
#3	.5437605	147.0128	9.207095	187.8929	1.154869	.0566730

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.279403	1.023348	1.245697	7.153293	4.602037	-.287458
Stddev	.012056	.010502	.003479	.159661	.010907	.010459
%RSD	.9423435	1.026214	.2792806	2.231993	.2370039	3.638445
#1	1.288150	1.016582	1.248353	6.991725	4.604632	-.293447
#2	1.265650	1.018017	1.246977	7.310976	4.590066	-.275382
#3	1.284410	1.035446	1.241759	7.157176	4.611412	-.293547

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5056-22 Acquired: 01/03/2025 22:09:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045563	1.291402	12.70866	.0212460	.7329101	.6459713
Stddev	.0003820	.002248	.25237	.0015694	.0078775	.0024566
%RSD	8.383231	.1741041	1.985797	7.386632	1.074825	.3803035
#1	.0043059	1.289235	12.85310	.0222270	.7376033	.6473158
#2	.0043670	1.291246	12.41725	.0220752	.7238155	.6431359
#3	.0049959	1.293724	12.85563	.0194360	.7373115	.6474622

Elem	Li6707
Units	ppm
Avg	.1036255
Stddev	.0022032
%RSD	2.126078
#1	.1025226
#2	.1021916
#3	.1061623

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1912.315	19820.02	1985.453	1439.107	1721.873
Stddev	4.521	75.17	25.820	12.996	5.913
%RSD	.2364261	.3792661	1.300440	.9030867	.3434236
#1	1912.108	19825.93	1969.240	1443.204	1721.150
#2	1916.936	19742.08	2015.227	1424.555	1728.115
#3	1907.901	19892.07	1971.890	1449.560	1716.355

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCV106 Acquired: 01/03/2025 22:13:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV106 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.012026	4.862750	24.84115	4.934711	4.894710	398.4733
Stddev	.008751	.012603	.02170	.018703	.007825	.8818
%RSD	.1746023	.2591771	.0873398	.3790105	.1598688	.2213059
#1	5.009772	4.874094	24.82365	4.924397	4.885803	397.5569
#2	5.021684	4.864971	24.83437	4.923436	4.900476	398.5471
#3	5.004623	4.849183	24.86543	4.956300	4.897852	399.3159

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.23961	.5102126	2.504382	408.4414	15.43508	2.507905
Stddev	.03833	.0041578	.001909	1.2651	.01695	.002443
%RSD	.3743543	.8149139	.0762173	.3097379	.1098348	.0974257
#1	10.19721	.5112136	2.503808	406.9863	15.44074	2.505115
#2	10.27181	.5056457	2.502826	409.0575	15.41602	2.509660
#3	10.24980	.5137786	2.506512	409.2805	15.44848	2.508941

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.26664	403.4360	15.09001	402.3397	2.520700	1.256254
Stddev	.02346	.7291	.03892	.6163	.002385	.004546
%RSD	.1536542	.1807227	.2579034	.1531862	.0945981	.3618571
#1	15.24177	402.7314	15.04663	401.7665	2.518041	1.254774
#2	15.28837	403.3894	15.10155	402.2611	2.522648	1.252632
#3	15.26979	404.1873	15.12186	402.9916	2.521410	1.261355

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	406.5324	2.519969	14.57110	151.4628	4.932372	F 4.386407
Stddev	1.7791	.011044	.04629	1.0479	.011356	.031581
%RSD	.4376208	.4382585	.3177077	.6918486	.2302260	.7199832
#1	407.0690	2.528252	14.61672	150.3374	4.939519	4.388787
#2	404.5468	2.507430	14.52416	152.4105	4.938319	4.353703
#3	407.9814	2.524226	14.57242	151.6404	4.919278	4.416731

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCV106 Acquired: 01/03/2025 22:13:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV106 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.890285	4.995076	4.998607	5.040853	5.066037	4.781798
Stddev	.003654	.006113	.040460	.005531	.006854	.014419
%RSD	.0747227	.1223775	.8094256	.1097150	.1352975	.3015451
#1	4.892305	4.988521	5.009376	5.036873	5.072652	4.765276
#2	4.886067	5.000622	4.953852	5.038517	5.058966	4.791844
#3	4.892484	4.996084	5.032593	5.047168	5.066494	4.788275

Elem	Li6707
Units	ppm
Avg	4.838633
Stddev	.015253
%RSD	.3152329
#1	4.823490
#2	4.853993
#3	4.838416

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1528.216	16627.56	1701.434	1141.575	1636.503
Stddev	4.738	36.13	7.964	2.408	5.367
%RSD	.3100164	.2172907	.4680973	.2109466	.3279745
#1	1528.150	16638.65	1699.570	1138.953	1636.712
#2	1532.986	16587.18	1710.165	1142.087	1641.763
#3	1523.511	16656.84	1694.567	1143.687	1631.034

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCB106 Acquired: 01/03/2025 22:16:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB106 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0093386	.0021804	-.000179	.0038079	-.001911	-.000669	-.005516
Stddev	.0019636	.0023609	.002326	.0050411	.001942	.038867	.002065
%RSD	21.02705	108.2760	1299.046	132.3846	101.6453	5811.832	37.43733
#1	.0100465	.0002420	.000696	.0072033	-.000753	.044209	-.003147
#2	.0071191	.0014897	.001582	.0062049	-.004154	-.023456	-.006937
#3	.0108500	.0048096	-.002816	-.001984	-.000827	-.022760	-.006465

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000014	.0000177	.0019438	-.000004	-.000041	-.004141	.0712651
Stddev	.000098	.0000443	.0152862	.000661	.000536	.011148	.0124422
%RSD	706.6667	250.4023	786.4090	16365.31	1311.883	269.2418	17.45902
#1	.000013	.0000546	.0193886	-.000056	.000576	.001691	.0637639
#2	-.000123	.0000298	-.004449	.000682	-.000311	-.016995	.0856273
#3	.000068	-.000031	-.009108	-.000638	-.000387	.002883	.0644040

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021515	-.075408	-.000362	.0008063	.1589433	-.012264	-.000150
Stddev	.0015211	.039501	.000247	.0013163	.0375085	.006851	.000203
%RSD	70.70201	52.38296	68.33045	163.2534	23.59864	55.86426	135.1168
#1	.0011486	-.041520	-.000455	.0011611	.1987843	-.005141	-.000040
#2	.0039017	-.118792	-.000548	.0019088	.1537337	-.012844	-.000026
#3	.0014041	-.065913	-.000081	-.000651	.1243120	-.018807	-.000385

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3172367	.0000836	.0083459	.0004412	-.013643	-.002027	-.000713
Stddev	.1128477	.0025464	.0016012	.0006339	.002495	.000431	.001396
%RSD	35.57207	3047.256	19.18539	143.6841	18.28837	21.23445	195.8497
#1	.1929634	-.002543	.0065619	.0007253	-.016519	-.001556	-.001135
#2	.3454366	.000251	.0096584	.0008832	-.012052	-.002126	.000845
#3	.4133102	.002542	.0088174	-.000285	-.012359	-.002400	-.001848

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCB106 Acquired: 01/03/2025 22:16:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB106 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.009086	-.000191	.0034063
Stddev	.002197	.000160	.0054148
%RSD	24.18365	83.88994	158.9648
#1	-.010050	-.000357	.0095421
#2	-.006571	-.000037	-.000703
#3	-.010636	-.000179	.001380

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1840.679	18887.11	1817.749	1394.804	2036.226
Stddev	8.498	57.32	16.576	7.321	4.261
%RSD	.4616618	.3034760	.9119176	.5248833	.2092557
#1	1849.230	18823.79	1799.058	1388.120	2037.690
#2	1840.571	18902.06	1830.668	1393.664	2039.561
#3	1832.236	18935.47	1823.522	1402.628	2031.426

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5056-07DLX2 Acquired: 01/03/2025 22:20:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKY5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0554602	.0121450	.1331787	.0070754	.0139420	18.67306	.1552439
Stddev	.0066819	.0068831	.0026608	.0022688	.0011639	.07503	.0017456
%RSD	12.04808	56.67491	1.997921	32.06541	8.347984	.4018014	1.124405
#1	.0631678	.0062570	.1361518	.0096838	.0140606	18.75810	.1554527
#2	.0513024	.0197124	.1310211	.0059826	.0150419	18.61621	.1534033
#3	.0519105	.0104654	.1323632	.0055599	.0127233	18.64487	.1568757

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023189	.0015638	589.3152	.0403809	.0683613	.0924912	89.19775
Stddev	.0001975	.0000814	1.4337	.0008791	.0005625	.0145914	.46418
%RSD	8.516156	5.204312	.2432879	2.177079	.8228473	15.77600	.5203887
#1	.0021201	.0015331	590.7387	.0404934	.0678778	.0761494	89.64489
#2	.0023215	.0015022	589.3355	.0411984	.0689787	.1042143	88.71824
#3	.0025151	.0016561	587.8714	.0394510	.0682275	.0971100	89.23011

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.556308	131.9039	.0490433	-.005534	.8268184	.0747545	.2398952
Stddev	.019139	.6171	.0016228	.001812	.0207511	.0046729	.0014664
%RSD	.5381740	.4678089	3.308893	32.74128	2.509749	6.250997	.6112756
#1	3.569314	132.5381	.0493225	-.006896	.8258753	.0733756	.2383819
#2	3.534331	131.3055	.0472990	-.006228	.8065550	.0799617	.2413098
#3	3.565278	131.8683	.0505084	-.003478	.8480250	.0709262	.2399939

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.929418	2.805261	-.181872	.0060732	.6362009	5.471433	.0152080
Stddev	.047951	.005778	.005018	.0026012	.0048435	.007251	.0011924
%RSD	1.636893	.2059791	2.759258	42.83093	.7613177	.1325336	7.840577
#1	2.886814	2.808415	-.176383	.0043892	.6309854	5.463680	.0163149
#2	2.981347	2.798592	-.183006	.0047612	.6370598	5.478048	.0153637
#3	2.920094	2.808777	-.186226	.0090691	.6405575	5.472572	.0139454

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5056-07DLX2 Acquired: 01/03/2025 22:20:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKY5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3590528	.3770636	.0397000
Stddev	.0008986	.0012599	.0015227
%RSD	.2502807	.3341222	3.835452
#1	.3586983	.3783120	.0403727
#2	.3583855	.3757926	.0379568
#3	.3600746	.3770864	.0407705

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1865.448	19292.89	1926.844	1405.645	1757.872
Stddev	5.021	107.67	9.830	7.792	2.586
%RSD	.2691372	.5580598	.5101383	.5543442	.1470891
#1	1869.807	19270.09	1926.697	1414.415	1759.197
#2	1859.959	19410.13	1936.746	1403.005	1754.892
#3	1866.578	19198.45	1917.089	1399.517	1759.526

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5056-12DLX2 Acquired: 01/03/2025 22:24:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL39 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0230294	.0267229	.1128843	-.013506	.0075978	26.06957	.3104788
Stddev	.0024740	.0034268	.0052101	.007680	.0024458	.23179	.0042457
%RSD	10.74264	12.82353	4.615447	56.86638	32.19123	.8891244	1.367455
#1	.0247123	.0242519	.1075767	-.010039	.0053914	26.19452	.3094320
#2	.0241871	.0252819	.1179911	-.008171	.0071742	25.80211	.3068544
#3	.0201889	.0306349	.1130851	-.022309	.0102277	26.21208	.3151499

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028150	.0017902	544.2023	.0397514	.0601372	.0821080	56.76029
Stddev	.0000834	.0000738	1.6728	.0013617	.0001723	.0010269	.30071
%RSD	2.962493	4.124669	.3073793	3.425535	.2865711	1.250643	.5297892
#1	.0029106	.0017268	545.2547	.0389262	.0601090	.0817749	57.01390
#2	.0027571	.0018713	542.2734	.0390049	.0599807	.0832601	56.42809
#3	.0027773	.0017725	545.0788	.0413231	.0603219	.0812890	56.83888

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.501279	36.23424	.0466830	-.001903	.5291183	.0432953	.2524250
Stddev	.011539	.18613	.0016939	.000604	.0232620	.0096551	.0027930
%RSD	.3295517	.5136907	3.628519	31.72459	4.396377	22.30068	1.106483
#1	3.505512	36.36207	.0472824	-.001339	.5508804	.0544163	.2511636
#2	3.488222	36.02070	.0479956	-.001830	.5318730	.0370538	.2556263
#3	3.510104	36.31996	.0447708	-.002539	.5046016	.0384157	.2504851

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.095361	1.561302	-.098218	.0027667	.8035144	6.621971	.0088374
Stddev	.103713	.003126	.001659	.0004831	.0090779	.056519	.0030214
%RSD	3.350599	.2002039	1.688897	17.46073	1.129772	.8535085	34.18836
#1	2.996821	1.559962	-.096338	.0027007	.8031663	6.575361	.0061306
#2	3.203570	1.564875	-.098842	.0032794	.7946155	6.605716	.0082847
#3	3.085693	1.559070	-.099474	.0023201	.8127613	6.684837	.0120970

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5056-12DLX2 Acquired: 01/03/2025 22:24:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL39 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0883601	.4596974	.0399501
Stddev	.0058836	.0029799	.0016688
%RSD	6.658626	.6482415	4.177172
#1	.0848163	.4621654	.0396348
#2	.0951517	.4563869	.0384615
#3	.0851123	.4605399	.0417541

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1909.318	19729.87	1943.865	1439.286	1828.318
Stddev	3.328	149.87	16.841	7.786	3.053
%RSD	.1743042	.7595865	.8663422	.5409904	.1670007
#1	1913.142	19556.93	1940.914	1431.155	1831.674
#2	1907.736	19811.12	1961.986	1440.029	1825.703
#3	1907.076	19821.58	1928.694	1446.675	1827.578

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5056-13DLX2 Acquired: 01/03/2025 22:28:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL40 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0275961	.0261103	.1125084	-.013503	.0092733	24.47205	.3313002
Stddev	.0040202	.0019845	.0031136	.007644	.0021198	.24154	.0018826
%RSD	14.56798	7.600610	2.767404	56.60428	22.85866	.9869999	.5682391
#1	.0245614	.0283126	.1094858	-.004677	.0078988	24.51714	.3320623
#2	.0260713	.0244607	.1123339	-.017914	.0117146	24.21114	.3291561
#3	.0321557	.0255577	.1157056	-.017919	.0082066	24.68786	.3326823

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022991	.0016863	771.7056	.0380938	.0745497	.1580652	64.88126
Stddev	.0002521	.0000227	3.1260	.0001110	.0008107	.0150422	.33949
%RSD	10.96722	1.345088	.4050750	.2912426	1.087393	9.516426	.5232475
#1	.0023170	.0017125	772.5284	.0382039	.0754188	.1419195	65.10049
#2	.0020385	.0016739	768.2505	.0380957	.0738142	.1716836	64.49021
#3	.0025419	.0016725	774.3378	.0379820	.0744159	.1605926	65.05309

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.078742	75.74023	.0616550	-.004255	.7094146	.0386053	.1905760
Stddev	.038881	.51022	.0019389	.001336	.0197539	.0148677	.0010647
%RSD	.7655625	.6736434	3.144753	31.40161	2.784537	38.51200	.5586848
#1	5.108925	75.95533	.0620006	-.002773	.7119413	.0439246	.1917438
#2	5.034867	75.15769	.0633979	-.004623	.6885190	.0218097	.1903251
#3	5.092434	76.10769	.0595666	-.005368	.7277837	.0500817	.1896591

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.004200	1.786711	-.104962	.0028961	.9126141	6.154661	.0142524
Stddev	.154599	.001884	.002557	.0001196	.0081625	.065892	.0018403
%RSD	3.860925	.1054576	2.436111	4.128181	.8944146	1.070597	12.91224
#1	4.077043	1.787353	-.104479	.0030306	.9143855	6.227364	.0144171
#2	4.108922	1.788191	-.102681	.0028560	.9037113	6.098884	.0160048
#3	3.826636	1.784590	-.107726	.0028018	.9197455	6.137734	.0123353

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5056-13DLX2 Acquired: 01/03/2025 22:28:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL40 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1526383	.4704562	.0464103
Stddev	.0019474	.0028582	.0073805
%RSD	1.275810	.6075372	15.90283
#1	.1531977	.4712566	.0500576
#2	.1504724	.4672831	.0512571
#3	.1542447	.4728288	.0379161

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1848.016	19057.39	1906.381	1389.588	1745.015
Stddev	4.990	36.39	12.836	6.750	4.304
%RSD	.2700424	.1909394	.6733298	.4857701	.2466208
#1	1849.687	19099.09	1894.637	1393.730	1747.792
#2	1851.956	19032.08	1920.084	1393.235	1747.197
#3	1842.404	19040.99	1904.423	1381.799	1740.058

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5056-14DLX2 Acquired: 01/03/2025 22:32:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL41 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0853011	.0242153	.1566485	-.003499	.0080760	21.80280	.3030915
Stddev	.0032208	.0014306	.0046917	.004263	.0006682	.18349	.0023776
%RSD	3.775855	5.907993	2.995054	121.8370	8.273490	.8415929	.7844669
#1	.0876306	.0226388	.1531044	-.000589	.0081145	21.70019	.3057435
#2	.0866472	.0254311	.1619690	-.008393	.0073894	22.01464	.3011503
#3	.0816256	.0245759	.1548722	-.001516	.0087241	21.69358	.3023807

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021356	.0017161	709.5808	.0399178	.0996884	.1697457	72.11608
Stddev	.0001465	.0000325	1.8662	.0008518	.0005215	.0155521	.16502
%RSD	6.859193	1.892384	.2629972	2.133869	.5231387	9.162020	.2288307
#1	.0019936	.0017306	709.5436	.0391149	.0997604	.1562839	72.00404
#2	.0022862	.0016789	711.4653	.0398273	.1001702	.1867700	72.30559
#3	.0021269	.0017388	707.7335	.0408113	.0991347	.1661832	72.03863

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.850687	86.32434	.0735577	-.002993	.8739586	.0428733	.2305689
Stddev	.031318	.39154	.0003528	.001082	.0190203	.0108092	.0019719
%RSD	.3989214	.4535665	.4795939	36.16383	2.176340	25.21191	.8552206
#1	7.830087	86.29921	.0738529	-.001751	.8570573	.0352684	.2296964
#2	7.886727	86.72784	.0731670	-.003492	.8945556	.0552468	.2291838
#3	7.835248	85.94598	.0736530	-.003736	.8702631	.0381048	.2328265

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.744784	5.582186	-.135949	.0064477	1.881946	6.161129	.0146647
Stddev	.297423	.001736	.002702	.0009227	.009156	.070886	.0001934
%RSD	10.83592	.0311060	1.987167	14.31137	.4864962	1.150540	1.318819
#1	2.425910	5.583779	-.136596	.0060022	1.871745	6.152450	.0148621
#2	3.014674	5.580335	-.138269	.0075086	1.884644	6.235955	.0146567
#3	2.793769	5.582444	-.132983	.0058322	1.889450	6.094982	.0144755

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5056-14DLX2 Acquired: 01/03/2025 22:32:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL41 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2381786	.6438925	.0414515
Stddev	.0061336	.0028925	.0016929
%RSD	2.575217	.4492201	4.084017
#1	.2422227	.6421920	.0408652
#2	.2411919	.6472322	.0401298
#3	.2311211	.6422532	.0433597

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1901.287	19568.91	1957.389	1430.374	1760.712
Stddev	4.199	52.01	21.389	7.082	3.942
%RSD	.2208756	.2657854	1.092737	.4951086	.2239056
#1	1903.973	19512.52	1955.096	1431.103	1765.234
#2	1896.447	19615.00	1937.238	1437.064	1758.911
#3	1903.440	19579.21	1979.832	1422.956	1757.993

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5057-04DLX2 Acquired: 01/03/2025 22:36:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0424794	.0121018	.1560283	.0142522	.0150968	37.03164	.3058600
Stddev	.0037327	.0032971	.0051754	.0020056	.0028476	.02108	.0011887
%RSD	8.787101	27.24467	3.316978	14.07246	18.86208	.0569309	.3886327
#1	.0467887	.0129141	.1507019	.0162498	.0183831	37.00921	.3055286
#2	.0403965	.0149169	.1610382	.0122386	.0133592	37.05104	.3071792
#3	.0402529	.0084745	.1563449	.0142683	.0135482	37.03468	.3048722

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0037482	.0012514	464.7132	.0600695	.0742465	.1521852	98.35886
Stddev	.0000980	.0000545	1.7623	.0010602	.0007223	.0024479	.43119
%RSD	2.614925	4.358013	.3792151	1.764915	.9728302	1.608499	.4383856
#1	.0038381	.0012040	463.3057	.0605577	.0740523	.1501162	98.52227
#2	.0037630	.0013110	466.6896	.0607976	.0750461	.1548875	98.68446
#3	.0036437	.0012392	464.1443	.0588532	.0736412	.1515518	97.86985

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.271833	76.63126	.0785103	-.006276	.8267968	.0918200	.3470393
Stddev	.014944	.09135	.0014581	.000453	.0159283	.0106698	.0046137
%RSD	.4567533	.1192080	1.857183	7.222655	1.926512	11.62040	1.329444
#1	3.286024	76.72151	.0771769	-.006045	.8450271	.0903005	.3509469
#2	3.273240	76.63343	.0782867	-.005985	.8155711	.0819913	.3419496
#3	3.256235	76.53885	.0800672	-.006798	.8197923	.1031681	.3482215

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.764596	3.499830	-.195781	.0046146	.6019210	7.001234	.0168392
Stddev	.149962	.008186	.003036	.0006555	.0009434	.025009	.0010071
%RSD	3.983474	.2338890	1.550862	14.20588	.1567268	.3572020	5.980874
#1	3.827112	3.509000	-.199264	.0049960	.6027615	7.026530	.0179884
#2	3.593491	3.497228	-.194387	.0038577	.6009006	6.976523	.0164191
#3	3.873186	3.493260	-.193692	.0049902	.6021008	7.000648	.0161101

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5057-04DLX2 Acquired: 01/03/2025 22:36:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL06 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3075533	.2939512	.0560099
Stddev	.0019966	.0013737	.0037958
%RSD	.6491863	.4673207	6.777093
#1	.3066727	.2945548	.0521852
#2	.3061484	.2949197	.0560683
#3	.3098388	.2923791	.0597763

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1954.209	20062.67	1997.153	1468.451	1791.595
Stddev	2.737	110.93	7.283	4.023	1.226
%RSD	.1400745	.5528970	.3646862	.2739321	.0684064
#1	1955.039	19997.63	1991.815	1464.778	1792.575
#2	1951.153	19999.63	1994.193	1472.750	1791.990
#3	1956.436	20190.75	2005.450	1467.826	1790.221

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5055-07DLX2 Acquired: 01/03/2025 22:40:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKT0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0336059	.0071373	.0996253	.0128516	.0170150	25.80372	.2075051
Stddev	.0004200	.0026448	.0045950	.0070023	.0031466	.28131	.0016110
%RSD	1.249805	37.05605	4.612266	54.48601	18.49305	1.090190	.7763809
#1	.0331832	.0073537	.0943313	.0201386	.0140466	25.50584	.2093505
#2	.0336113	.0043910	.1025792	.0061737	.0166846	25.84049	.2067860
#3	.0340231	.0096673	.1019654	.0122425	.0203137	26.06484	.2063789

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030161	.0016603	546.0443	.0452047	.0696061	.1193297	98.90499
Stddev	.0000857	.0000901	2.6713	.0003335	.0003135	.0025645	.95557
%RSD	2.840408	5.424638	.4892116	.7377403	.4503270	2.149064	.9661518
#1	.0030012	.0015836	543.3482	.0448202	.0699538	.1166671	97.89539
#2	.0029389	.0016378	546.0945	.0454161	.0693453	.1217833	99.02425
#3	.0031083	.0017594	548.6901	.0453777	.0695191	.1195388	99.79534

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.949705	118.9405	.0661183	-.006102	.8400147	.0864835	.3089759
Stddev	.023800	.9901	.0007317	.000510	.0102078	.0162885	.0010051
%RSD	.6025875	.8324409	1.106646	8.358042	1.215196	18.83428	.3253116
#1	3.922471	118.2699	.0654869	-.006675	.8289346	.0727910	.3098527
#2	3.960134	118.4738	.0659478	-.005699	.8420728	.0821625	.3091961
#3	3.966511	120.0777	.0669202	-.005931	.8490366	.1044968	.3078789

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.882385	4.504571	-.208758	.0087285	.6284827	5.529051	.0143636
Stddev	.052620	.011778	.002465	.0009125	.0035894	.013898	.0006380
%RSD	1.825562	.2614686	1.180831	10.45400	.5711245	.2513706	4.441679
#1	2.898405	4.491575	-.210331	.0088785	.6324911	5.529196	.0136801
#2	2.823617	4.507599	-.205917	.0077503	.6255656	5.515081	.0149434
#3	2.925133	4.514540	-.210026	.0095567	.6273914	5.542877	.0144673

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5055-07DLX2 Acquired: 01/03/2025 22:40:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKT0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5899920	.3847981	.0565380
Stddev	.0101094	.0028455	.0036623
%RSD	1.713478	.7394857	6.477547
#1	.5785234	.3823535	.0566277
#2	.5938415	.3841191	.0528317
#3	.5976111	.3879217	.0601546

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1887.318	19489.65	1932.432	1417.628	1750.055
Stddev	1.718	84.35	14.131	7.525	3.291
%RSD	.0910531	.4328023	.7312310	.5308258	.1880402
#1	1885.489	19503.02	1934.882	1420.664	1753.194
#2	1888.898	19566.52	1945.177	1423.161	1750.339
#3	1887.568	19399.42	1917.237	1409.059	1746.631

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5055-08DLX2 Acquired: 01/03/2025 22:43:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKT1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0317491	.0274494	.3384412	-.018987	.0058742	15.80628	.2489074
Stddev	.0017220	.0091131	.0027015	.004936	.0023583	.06073	.0018421
%RSD	5.423746	33.19961	.7982039	25.99678	40.14716	.3842111	.7400631
#1	.0329776	.0376838	.3358742	-.017720	.0031656	15.87585	.2498656
#2	.0297809	.0202128	.3381898	-.014808	.0074720	15.76390	.2500728
#3	.0324889	.0244516	.3412596	-.024433	.0069851	15.77908	.2467837

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019464	.0026041	709.0689	.0391634	.0645349	.0549383	57.50412
Stddev	.0001167	.0000697	1.8121	.0004157	.0004522	.0060775	.15454
%RSD	5.994372	2.678214	.2555629	1.061359	.7007517	11.06237	.2687405
#1	.0018947	.0026846	710.6065	.0389293	.0640183	.0608105	57.66817
#2	.0020800	.0025637	709.5291	.0396433	.0648593	.0553298	57.36130
#3	.0018646	.0025639	707.0711	.0389175	.0647271	.0486745	57.48289

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.757035	393.8507	.0503886	-.001501	.9360579	.0408067	.5358787
Stddev	.003386	1.0280	.0021458	.001725	.0212817	.0033303	.0083335
%RSD	.0901109	.2610083	4.258400	114.9247	2.273541	8.161076	1.555103
#1	3.760744	394.8213	.0520236	-.003326	.9424448	.0412884	.5429148
#2	3.756252	393.9571	.0511833	-.001281	.9534148	.0372618	.5266758
#3	3.754110	392.7736	.0479588	.000103	.9123142	.0438699	.5380455

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.379905	3.750488	-.087807	.0050828	15.98058	5.484140	.0186999
Stddev	.326666	.005584	.001195	.0011828	.03220	.076988	.0017477
%RSD	7.458284	.1488801	1.360856	23.27075	.2015231	1.403826	9.345933
#1	4.291622	3.744044	-.086954	.0038556	15.95065	5.541313	.0169370
#2	4.741639	3.753507	-.087295	.0062155	15.97644	5.514508	.0187307
#3	4.106454	3.753912	-.089173	.0051771	16.01466	5.396600	.0204320

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5055-08DLX2 Acquired: 01/03/2025 22:43:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKT1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2181399	.2938353	.0313731
Stddev	.0026969	.0002706	.0040957
%RSD	1.236299	.0920795	13.05471
#1	.2208739	.2936520	.0326455
#2	.2154818	.2941461	.0267923
#3	.2180639	.2937078	.0346816

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1763.993	18297.36	1834.527	1317.811	1670.349
Stddev	4.340	57.38	20.275	13.944	5.727
%RSD	.2460450	.3136159	1.105173	1.058141	.3428535
#1	1768.198	18232.13	1818.145	1311.714	1674.476
#2	1764.251	18340.07	1828.235	1333.766	1672.761
#3	1759.529	18319.87	1857.202	1307.954	1663.811

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5055-09DLX2 Acquired: 01/03/2025 22:47:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKT2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0275303	.0260233	.2744741	-.019899	.0038409	13.29562	.1711614
Stddev	.0016292	.0035650	.0049778	.003416	.0029697	.04479	.0024357
%RSD	5.917680	13.69935	1.813565	17.16718	77.31909	.3369061	1.423017
#1	.0264238	.0256702	.2697911	-.018140	.0062853	13.24791	.1691221
#2	.0294011	.0226479	.2797019	-.023837	.0005359	13.33678	.1738584
#3	.0267661	.0297517	.2739294	-.017721	.0047015	13.30216	.1705038

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015283	.0017674	698.5549	.0285461	.0587276	.0417902	54.60404
Stddev	.0001960	.0001190	3.1809	.0010181	.0005397	.0035854	.07989
%RSD	12.82673	6.731113	.4553527	3.566519	.9189581	8.579544	.1463104
#1	.0013062	.0019036	694.8842	.0280099	.0593426	.0388167	54.64846
#2	.0016771	.0017150	700.2777	.0279083	.0583330	.0407822	54.51181
#3	.0016017	.0016837	700.5027	.0297203	.0585072	.0457717	54.65186

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.366866	378.8535	.0408463	-.003349	.9145028	.0255248	.3955205
Stddev	.010366	1.0562	.0012124	.000582	.0214663	.0096445	.0023343
%RSD	.3078882	.2787883	2.968123	17.37614	2.347316	37.78472	.5901889
#1	3.354898	377.7889	.0414740	-.003373	.9298741	.0360987	.3980058
#2	3.372708	378.8706	.0394488	-.002756	.9236573	.0172113	.3933742
#3	3.372993	379.9011	.0416161	-.003919	.8899769	.0232644	.3951814

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.458404	2.461244	-.087396	.0061733	13.85560	4.929776	.0159297
Stddev	.103559	.006460	.004435	.0004699	.02830	.048292	.0012659
%RSD	2.994402	.2624596	5.075086	7.611227	.2042322	.9795975	7.946932
#1	3.428369	2.454183	-.082391	.0056905	13.82295	4.875483	.0145443
#2	3.373183	2.466857	-.090841	.0062002	13.87085	4.967935	.0170263
#3	3.573660	2.462693	-.088956	.0066291	13.87300	4.945911	.0162184

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5055-09DLX2 Acquired: 01/03/2025 22:47:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKT2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2042779	.2932345	.0273970
Stddev	.0010574	.0012536	.0016943
%RSD	.5176435	.4274924	6.184099
#1	.2049035	.2925257	.0266385
#2	.2048732	.2946819	.0262146
#3	.2030570	.2924958	.0293381

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1728.398	18047.01	1799.274	1311.324	1664.906
Stddev	5.030	85.88	12.763	9.607	3.845
%RSD	.2910357	.4758825	.7093657	.7326199	.2309616
#1	1723.797	17960.98	1811.195	1301.281	1666.089
#2	1733.769	18047.31	1785.809	1320.426	1668.021
#3	1727.630	18132.75	1800.818	1312.263	1660.609

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5055-14DLX2 Acquired: 01/03/2025 22:51:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKT5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0259625	.0147647	.1363918	.0051947	.0167079	25.19754	.2617861
Stddev	.0021638	.0078424	.0057304	.0054419	.0041069	.16252	.0029089
%RSD	8.334272	53.11609	4.201401	104.7580	24.58028	.6449881	1.111159
#1	.0283577	.0152448	.1326212	.0104850	.0132006	25.37781	.2626145
#2	.0241490	.0223560	.1429860	-.000387	.0156975	25.15256	.2641910
#3	.0253808	.0066933	.1335682	.005486	.0212257	25.06224	.2585530

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0025255	.0015583	554.5132	.0439247	.0758931	.0828903	88.83447
Stddev	.0001452	.0000268	.4626	.0011238	.0003653	.0054998	.44959
%RSD	5.748574	1.719195	.0834217	2.558492	.4813924	6.635043	.5060992
#1	.0025470	.0015833	554.8977	.0452021	.0757620	.0769533	89.32269
#2	.0026587	.0015300	553.9999	.0434836	.0763059	.0839064	88.74319
#3	.0023707	.0015616	554.6420	.0430883	.0756114	.0878111	88.43752

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.379720	111.6541	.0733850	-.005104	.8118735	.0833789	.3085068
Stddev	.018260	.3269	.0012612	.000998	.0222136	.0102138	.0009291
%RSD	.4169115	.2927706	1.718656	19.56353	2.736090	12.24985	.3011549
#1	4.398614	111.8505	.0748414	-.004227	.8373330	.0951714	.3075321
#2	4.362170	111.2768	.0726608	-.006190	.8018460	.0776398	.3093823
#3	4.378375	111.8352	.0726529	-.004894	.7964415	.0773255	.3086059

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.555929	3.439631	-.167590	.0043625	.6567074	5.427521	.0143681
Stddev	.052892	.003320	.001585	.0008707	.0107036	.044050	.0020147
%RSD	1.160939	.0965313	.9457372	19.95999	1.629891	.8116004	14.02206
#1	4.495442	3.443013	-.167295	.0052436	.6529424	5.478336	.0137020
#2	4.593487	3.439505	-.169301	.0043413	.6483951	5.400192	.0127707
#3	4.578857	3.436376	-.166172	.0035025	.6687848	5.404033	.0166314

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5055-14DLX2 Acquired: 01/03/2025 22:51:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKT5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7995178	.4118949	.0551893
Stddev	.0135679	.0023561	.0009430
%RSD	1.697012	.5720220	1.708702
#1	.8151732	.4145637	.0555973
#2	.7911719	.4110183	.0558597
#3	.7922082	.4101028	.0541110

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1851.134	19146.34	1917.590	1393.485	1764.042
Stddev	6.216	91.28	8.316	10.383	7.006
%RSD	.3358097	.4767505	.4336480	.7451045	.3971407
#1	1850.657	19198.79	1909.145	1404.601	1760.302
#2	1845.171	19040.94	1917.855	1384.037	1759.699
#3	1857.576	19199.30	1925.770	1391.818	1772.124

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5055-15DLX2 Acquired: 01/03/2025 22:55:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKT6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0434498	.0222849	.1850555	-.008315	.0105717	21.67244
Stddev	.0041088	.0060430	.0032109	.004874	.0020195	.06232
%RSD	9.456395	27.11689	1.735096	58.60913	19.10282	.2875608
#1	.0479777	.0212734	.1854650	-.013940	.0095353	21.73368
#2	.0424131	.0287697	.1880421	-.005650	.0128990	21.67454
#3	.0399587	.0168114	.1816596	-.005355	.0092809	21.60909

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4796052	.0024344	.0020078	F 805.6182	.0392084	.0825866
Stddev	.0037166	.0000707	.0000773	4.1972	.0012700	.0007999
%RSD	.7749246	2.904816	3.847986	.5209889	3.239053	.9686100
#1	.4815067	.0023998	.0019224	809.8392	.0383590	.0835094
#2	.4819863	.0023875	.0020727	805.5703	.0385978	.0821604
#3	.4753226	.0025157	.0020284	801.4452	.0406683	.0820900

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1170289	74.81529	6.228138	125.3670	.0767447	-.004779
Stddev	.0015244	.37336	.030371	.7610	.0011148	.001067
%RSD	1.302590	.4990401	.4876487	.6069898	1.452596	22.31915
#1	.1153601	75.03301	6.257044	125.7932	.0780008	-.005980
#2	.1183483	75.02868	6.230883	125.8193	.0758730	-.003943
#3	.1173783	74.38418	6.196487	124.4885	.0763602	-.004413

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8571574	.0555020	.2443086	5.274615	6.466496	-.117753
Stddev	.0168662	.0096211	.0019710	.142756	.024390	.002664
%RSD	1.967684	17.33465	.8067497	2.706476	.3771802	2.262548
#1	.8766014	.0580916	.2438647	5.438422	6.478221	-.118702
#2	.8464787	.0635633	.2425974	5.208680	6.438457	-.119813
#3	.8483921	.0448512	.2464637	5.176745	6.482810	-.114745

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5055-15DLX2 Acquired: 01/03/2025 22:55:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKT6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041888	1.158871	5.450057	.0118388	.3433371	.5971074
Stddev	.0006098	.001596	.049340	.0009893	.0040514	.0026984
%RSD	14.55879	.1377123	.9053070	8.356555	1.179997	.4519126
#1	.0035969	1.158625	5.487064	.0118276	.3478761	.5990511
#2	.0048152	1.160576	5.469068	.0108551	.3420484	.5982446
#3	.0041544	1.157413	5.394040	.0128336	.3400869	.5940266

Elem	Li6707
Units	ppm
Avg	.0447141
Stddev	.0032930
%RSD	7.364509
#1	.0419204
#2	.0438771
#3	.0483448

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1860.199	19233.48	1921.282	1401.863	1708.679
Stddev	9.068	51.39	16.805	4.832	5.757
%RSD	.4874842	.2671688	.8746979	.3446877	.3369422
#1	1865.238	19254.32	1909.977	1406.656	1713.009
#2	1849.730	19174.95	1913.276	1396.993	1702.145
#3	1865.628	19271.17	1940.594	1401.939	1710.882

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5055-16DLX5 Acquired: 01/03/2025 22:59:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKT7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050797	.0275122	.0652854	-.031028	-.002470	8.513030	.1420321
Stddev	.0040052	.0070624	.0007513	.010896	.003860	.088522	.0035673
%RSD	78.84654	25.67001	1.150767	35.11724	156.2727	1.039836	2.511647
#1	.0042194	.0286184	.0648505	-.026060	-.000236	8.610788	.1441141
#2	.0094451	.0339562	.0661529	-.023500	-.006927	8.490009	.1440692
#3	.0015746	.0199620	.0648527	-.043522	-.000247	8.438293	.1379129

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010461	.0008598	525.5715	.0159688	.0488975	.0356607	25.39516
Stddev	.0000317	.0000673	2.2922	.0008625	.0005315	.0049781	.19127
%RSD	3.032517	7.824357	.4361379	5.401189	1.087065	13.95958	.7531929
#1	.0010095	.0008055	528.1056	.0161109	.0494911	.0363664	25.58067
#2	.0010649	.0008388	524.9665	.0150440	.0487356	.0303675	25.40621
#3	.0010639	.0009350	523.6425	.0167513	.0484657	.0402483	25.19860

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.782303	30.04114	.0205291	-.001236	.3976755	.0032567	.0823510
Stddev	.008039	.29196	.0006734	.002229	.0388585	.0039220	.0009929
%RSD	.4510668	.9718759	3.280436	180.3734	9.771414	120.4275	1.205665
#1	1.791584	30.37700	.0197557	-.002881	.3822504	.0057341	.0817046
#2	1.777849	29.89845	.0209866	-.002128	.3688979	-.001265	.0818541
#3	1.777477	29.84796	.0208448	.001301	.4418783	.005301	.0834942

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.629263	1.046216	-.037778	.0046486	.5748140	2.272299	.0087477
Stddev	.208720	.005848	.003688	.0008054	.0120205	.017380	.0014528
%RSD	7.938353	.5589715	9.763451	17.32544	2.091194	.7648612	16.60802
#1	2.438619	1.039475	-.034482	.0043189	.5752886	2.290946	.0100771
#2	2.852277	1.049938	-.041762	.0040604	.5865901	2.269401	.0071969
#3	2.596893	1.049234	-.037089	.0055666	.5625632	2.256551	.0089692

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5055-16DLX5 Acquired: 01/03/2025 22:59:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKT7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0806247	.3632313	.0144425
Stddev	.0033025	.0015050	.0026478
%RSD	4.096184	.4143272	18.33332
#1	.0844334	.3647393	.0113944
#2	.0785560	.3632253	.0161727
#3	.0788846	.3617294	.0157605

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1786.876	18532.80	1820.838	1351.133	1823.055
Stddev	.429	51.18	15.199	5.496	1.752
%RSD	.0240259	.2761701	.8347415	.4068046	.0961198
#1	1787.322	18474.76	1803.356	1350.510	1821.052
#2	1786.842	18552.16	1828.236	1356.915	1823.810
#3	1786.465	18571.48	1830.923	1345.975	1824.304

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5055-20DLX2 Acquired: 01/03/2025 23:03:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKW8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0454920	.0153384	.3145189	.0187908	.0160778	28.49135	.9085227
Stddev	.0069577	.0009229	.0088298	.0046882	.0034326	.11596	.0023459
%RSD	15.29428	6.017151	2.807388	24.94916	21.34988	.4070030	.2582057
#1	.0519594	.0147792	.3153599	.0234676	.0136771	28.60899	.9085702
#2	.0463863	.0148323	.3052987	.0140914	.0145469	28.48792	.9108444
#3	.0381305	.0164036	.3228980	.0188134	.0200095	28.37714	.9061534

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031168	.0026968	687.5908	.0516925	.0906792	.1469011	99.30865
Stddev	.0001747	.0000380	1.8328	.0009877	.0009706	.0059984	.75209
%RSD	5.604255	1.408684	.2665527	1.910811	1.070394	4.083326	.7573266
#1	.0032192	.0026587	689.6829	.0517343	.0908362	.1526860	100.1550
#2	.0032161	.0027346	686.2682	.0526587	.0896396	.1473076	99.0541
#3	.0029151	.0026971	686.8212	.0506845	.0915618	.1407097	98.7169

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.823483	141.3847	.0890894	-.003452	.8444707	.0727439	.4298391
Stddev	.053477	.8421	.0008927	.001286	.0166555	.0122647	.0028243
%RSD	.5443824	.5956052	1.001981	37.27059	1.972296	16.86003	.6570670
#1	9.882907	142.3468	.0881729	-.004855	.8253166	.0801099	.4272455
#2	9.808312	141.0257	.0891391	-.002329	.8525503	.0585858	.4294235
#3	9.779230	140.7816	.0899561	-.003170	.8555454	.0795360	.4328481

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.013893	4.743178	-.179033	.0062204	1.394674	6.086937	.0221740
Stddev	.164688	.022138	.003091	.0003236	.003539	.057489	.0034148
%RSD	2.738452	.4667352	1.726412	5.202360	.2537827	.9444656	15.40011
#1	5.988622	4.750263	-.177789	.0065928	1.397665	6.141771	.0194165
#2	6.189756	4.718365	-.176758	.0060083	1.390767	6.027118	.0259937
#3	5.863302	4.760907	-.182552	.0060600	1.395591	6.091921	.0211120

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5055-20DLX2 Acquired: 01/03/2025 23:03:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKW8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2889978	.4714827	.0549170
Stddev	.0027572	.0029457	.0058551
%RSD	.9540425	.6247799	10.66174
#1	.2914614	.4746282	.0551345
#2	.2895124	.4710310	.0489562
#3	.2860196	.4687889	.0606603

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1854.606	19198.27	1898.852	1398.622	1716.073
Stddev	8.580	91.80	13.231	9.614	3.560
%RSD	.4626433	.4781835	.6967845	.6873834	.2074377
#1	1864.278	19274.53	1883.852	1408.672	1719.727
#2	1847.910	19096.37	1908.862	1389.513	1715.876
#3	1851.630	19223.90	1903.842	1397.682	1712.616

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5055-21DLX5 Acquired: 01/03/2025 23:07:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKW9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0092878	.0303497	.0733040	-.028287	.0011189	11.35201	.1507545
Stddev	.0012879	.0008268	.0038485	.006601	.0017519	.09074	.0007681
%RSD	13.86602	2.724239	5.250022	23.33587	156.5764	.7993248	.5095137
#1	.0106351	.0310867	.0776908	-.028618	.0012202	11.39844	.1504963
#2	.0080690	.0294556	.0717249	-.034717	-.000681	11.41014	.1501487
#3	.0091594	.0305067	.0704961	-.021527	.002818	11.24745	.1516184

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012448	.0007248	454.8985	.0200338	.0529224	.0469659	30.34211
Stddev	.0001263	.0001051	1.7669	.0011787	.0006176	.0054610	.21846
%RSD	10.14951	14.50081	.3884099	5.883607	1.167075	11.62764	.7199831
#1	.0013158	.0006409	455.9777	.0202709	.0522936	.0453829	30.59015
#2	.0013196	.0008427	452.8595	.0187545	.0529453	.0424712	30.25785
#3	.0010989	.0006907	455.8584	.0210759	.0535283	.0530435	30.17832

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.796435	53.39781	.0276514	-.000336	.4892238	.0117653	.1162039
Stddev	.022862	.32524	.0005981	.001296	.0028297	.0197708	.0007285
%RSD	.8175242	.6090868	2.163178	385.5875	.5783973	168.0428	.6268821
#1	2.822830	53.76143	.0272121	.000402	.4868662	-.005691	.1163360
#2	2.782903	53.13466	.0274094	.000422	.4884433	.007752	.1154185
#3	2.783571	53.29734	.0283326	-.001832	.4923617	.033235	.1168573

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.808316	1.384788	-.054374	.0052923	.4486492	2.402611	.0072901
Stddev	.198383	.006146	.001480	.0008661	.0057840	.021848	.0020808
%RSD	7.064128	.4438093	2.721525	16.36454	1.289202	.9093547	28.54317
#1	2.611225	1.383383	-.054347	.0054511	.4455479	2.427053	.0096029
#2	2.805755	1.379466	-.052907	.0043578	.4450772	2.384978	.0055697
#3	3.007967	1.391515	-.055866	.0060679	.4553224	2.395802	.0066977

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5055-21DLX5 Acquired: 01/03/2025 23:07:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKW9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1242224	.3260794	.0173263
Stddev	.0066669	.0013464	.0014151
%RSD	5.366874	.4128925	8.167252
#1	.1210850	.3269227	.0164405
#2	.1197030	.3245266	.0189583
#3	.1318791	.3267888	.0165802

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1808.157	18706.77	1847.299	1370.079	1827.462
Stddev	3.609	33.60	9.250	5.306	5.769
%RSD	.1995920	.1796401	.5007454	.3873045	.3156613
#1	1805.956	18716.26	1838.741	1375.100	1821.165
#2	1812.322	18734.61	1857.113	1370.610	1832.491
#3	1806.193	18669.44	1846.042	1364.527	1828.729

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5055-22DLX2 Acquired: 01/03/2025 23:10:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKX0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0688189	.0176134	.1661963	.0151661	.0172302	28.30883	.3317055
Stddev	.0097411	.0033305	.0023791	.0039411	.0056559	.21319	.0011409
%RSD	14.15462	18.90918	1.431521	25.98600	32.82586	.7530841	.3439468
#1	.0766355	.0199356	.1686887	.0107894	.0185963	28.53239	.3329071
#2	.0719153	.0191070	.1659508	.0162750	.0220779	28.10780	.3315727
#3	.0579061	.0137975	.1639495	.0184339	.0110163	28.28630	.3306369

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0036791	.0019607	742.2949	.0443084	.0839941	.2289045	103.1036
Stddev	.0001061	.0000417	3.8466	.0014292	.0003406	.0091451	.5522
%RSD	2.883680	2.124435	.5181997	3.225584	.4054596	3.995142	.5355759
#1	.0037920	.0020083	746.0154	.0447535	.0843204	.2327821	103.6191
#2	.0036639	.0019430	738.3336	.0454620	.0836409	.2184595	102.5209
#3	.0035815	.0019308	742.5357	.0427096	.0840210	.2354720	103.1709

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.616838	88.96641	.0868568	-.005409	.9540110	.0575950	.2621906
Stddev	.026766	.60713	.0012536	.001776	.0188325	.0132826	.0008965
%RSD	.5797460	.6824254	1.443323	32.84005	1.974028	23.06208	.3419205
#1	4.642350	89.63520	.0880107	-.005992	.9376490	.0629577	.2619675
#2	4.588974	88.44997	.0870370	-.003414	.9745966	.0673579	.2631776
#3	4.619191	88.81405	.0855229	-.006821	.9497873	.0424695	.2614267

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.592966	8.732186	-.175702	.0058639	1.143188	5.698615	.0135854
Stddev	.077295	.016071	.001368	.0005499	.011957	.025860	.0011644
%RSD	1.017975	.1840468	.7784070	9.378352	1.045930	.4538000	8.570698
#1	7.576313	8.713831	-.174337	.0062976	1.129587	5.694362	.0147063
#2	7.677229	8.738997	-.177072	.0060488	1.147935	5.675145	.0123819
#3	7.525355	8.743730	-.175697	.0052453	1.152043	5.726338	.0136680

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5055-22DLX2 Acquired: 01/03/2025 23:10:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKX0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1877673	.6429047	.0569006
Stddev	.0052410	.0036201	.0017983
%RSD	2.791200	.5630876	3.160495
#1	.1904426	.6465342	.0560153
#2	.1911307	.6392940	.0589700
#3	.1817286	.6428858	.0557165

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1906.192	19774.67	1960.335	1435.958	1711.593
Stddev	3.365	98.73	8.953	9.235	3.737
%RSD	.1765407	.4992826	.4567041	.6431448	.2183580
#1	1906.269	19666.54	1954.315	1425.660	1710.851
#2	1909.519	19797.46	1970.623	1438.711	1715.646
#3	1902.790	19860.02	1956.067	1443.504	1708.283

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5064-04DLX2 Acquired: 01/03/2025 23:14:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL97 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0175436	.0210527	.0678977	-.018112	.0085971	24.89365	.2268701
Stddev	.0045927	.0027557	.0013296	.011346	.0028703	.16090	.0016022
%RSD	26.17849	13.08954	1.958175	62.64278	33.38628	.6463607	.7061956
#1	.0216487	.0242186	.0672564	-.028472	.0104857	24.91015	.2265221
#2	.0183987	.0197473	.0694263	-.005987	.0100114	25.04567	.2286177
#3	.0125836	.0191923	.0670103	-.019878	.0052941	24.72513	.2254706

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021350	.0012797	562.0652	.0429345	.0647488	.1043969	65.88916
Stddev	.0000961	.0000759	3.1893	.0005387	.0003793	.0026840	.37292
%RSD	4.502864	5.927605	.5674336	1.254721	.5858740	2.570986	.5659872
#1	.0021414	.0012041	562.4515	.0423178	.0648718	.1052746	66.09049
#2	.0022277	.0013558	565.0439	.0433133	.0643232	.1065322	66.11816
#3	.0020358	.0012793	558.7004	.0431724	.0650513	.1013839	65.45884

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.504936	106.4477	.0618641	-.004599	.7328205	.0532894	.1483790
Stddev	.023937	.6979	.0005545	.000254	.0191526	.0057125	.0005751
%RSD	.5313607	.6556621	.8962784	5.515938	2.613539	10.71978	.3876026
#1	4.496623	106.4526	.0625039	-.004826	.7470843	.0525927	.1477941
#2	4.531922	107.1431	.0615667	-.004325	.7403251	.0593183	.1483990
#3	4.486263	105.7472	.0615218	-.004645	.7110521	.0479572	.1489438

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.322911	3.390593	-.132789	.0057487	.3693372	6.739704	.0086142
Stddev	.200735	.006005	.001700	.0010058	.0082028	.070675	.0029863
%RSD	4.643521	.1771121	1.280285	17.49584	2.220956	1.048640	34.66731
#1	4.403797	3.386470	-.131628	.0046671	.3648685	6.761030	.0117804
#2	4.094352	3.387827	-.134741	.0059229	.3643389	6.797260	.0058481
#3	4.470584	3.397483	-.131998	.0066559	.3788040	6.660821	.0082141

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5064-04DLX2 Acquired: 01/03/2025 23:14:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL97 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6287814	.2546324	.0437430
Stddev	.0061025	.0013273	.0067455
%RSD	.9705252	.5212612	15.42081
#1	.6217505	.2553817	.0378865
#2	.6318904	.2554156	.0511185
#3	.6327033	.2530999	.0422239

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1861.080	19322.77	1904.755	1406.437	1762.378
Stddev	2.970	47.76	17.906	4.796	.989
%RSD	.1595889	.2471896	.9400886	.3410378	.0560957
#1	1859.569	19268.23	1899.461	1411.039	1762.298
#2	1864.501	19357.14	1890.093	1406.805	1763.404
#3	1859.169	19342.95	1924.712	1401.467	1761.431

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5061-05DLX2 Acquired: 01/03/2025 23:18:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL52 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0408342	.0166702	.1486850	.0043056	.0104459	30.05576	.4057430
Stddev	.0019158	.0020923	.0046190	.0094329	.0024518	.15237	.0064869
%RSD	4.691586	12.55119	3.106554	219.0848	23.47185	.5069469	1.598769
#1	.0427797	.0179190	.1462448	.0025286	.0079740	30.22563	.4067277
#2	.0389496	.0142547	.1457980	-.004112	.0104864	30.01048	.4116813
#3	.0407734	.0178370	.1540123	.014501	.0128772	29.93116	.3988201

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034144	.0013238	480.6327	.0491912	.0757141	.0903004	80.85995
Stddev	.0002570	.0000734	.6785	.0009568	.0006700	.0119562	.32084
%RSD	7.526261	5.544067	.1411783	1.945128	.8848627	13.24046	.3967862
#1	.0032025	.0012808	481.0455	.0482127	.0761179	.0838222	81.22070
#2	.0033404	.0014086	481.0030	.0492363	.0749407	.0829814	80.75262
#3	.0037003	.0012821	479.8496	.0501248	.0760837	.1040977	80.60654

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.141933	41.46135	.0608859	-.003449	.5367993	.0719742	.1681289
Stddev	.011001	.24415	.0020512	.001153	.0083879	.0100891	.0017569
%RSD	.3501222	.5888733	3.368904	33.42985	1.562572	14.01772	1.044953
#1	3.154001	41.74315	.0616879	-.004012	.5426330	.0833772	.1701512
#2	3.139332	41.31318	.0624149	-.004213	.5271867	.0642066	.1669787
#3	3.132466	41.32771	.0585549	-.002123	.5405781	.0683386	.1672567

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.988602	2.074146	-.142605	.0051406	.8811289	7.960415	.0129389
Stddev	.162803	.005361	.001198	.0014145	.0028941	.075555	.0004777
%RSD	2.718547	.2584743	.8398199	27.51661	.3284564	.9491395	3.692098
#1	6.154789	2.068307	-.142303	.0048345	.8784096	8.012888	.0124594
#2	5.981610	2.075285	-.143924	.0039042	.8841708	7.873816	.0129424
#3	5.829408	2.078847	-.141587	.0066831	.8808062	7.994540	.0134148

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5061-05DLX2 Acquired: 01/03/2025 23:18:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL52 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2426957	.3811262	.0472252
Stddev	.0071956	.0023968	.0035187
%RSD	2.964863	.6288765	7.450968
#1	.2347769	.3837639	.0498396
#2	.2488337	.3805333	.0432244
#3	.2444766	.3790815	.0486114

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1879.463	19493.93	1912.544	1423.616	1797.130
Stddev	1.797	100.24	8.690	12.537	1.234
%RSD	.0956343	.5142305	.4543525	.8806160	.0686572
#1	1881.536	19440.92	1902.774	1412.710	1798.551
#2	1878.340	19431.33	1919.411	1420.824	1796.337
#3	1878.513	19609.55	1915.446	1437.313	1796.501

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5061-06DLX2 Acquired: 01/03/2025 23:22:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL52D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0373495	.0175968	.1544211	.0046780	.0111762	30.96268	.4154149
Stddev	.0070490	.0004175	.0011567	.0061811	.0025401	.15633	.0026057
%RSD	18.87309	2.372803	.7490628	132.1314	22.72823	.5048975	.6272489
#1	.0385113	.0176587	.1557565	.0115394	.0133572	30.99313	.4145481
#2	.0437454	.0171518	.1537748	.0029498	.0117840	31.10154	.4183435
#3	.0297918	.0179800	.1537319	-.000455	.0083872	30.79336	.4133531

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0035406	.0014053	488.4902	.0496767	.0753478	.0996217	82.14558
Stddev	.0000962	.0000891	1.9478	.0006329	.0002774	.0097716	.32174
%RSD	2.717019	6.338285	.3987400	1.273930	.3682257	9.808666	.3916661
#1	.0034973	.0013064	489.3794	.0502769	.0753586	.0972960	82.11409
#2	.0036509	.0014303	489.8347	.0490156	.0756197	.1103463	82.48191
#3	.0034737	.0014793	486.2565	.0497377	.0750652	.0912229	81.84075

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.192529	41.95088	.0627007	-.003196	.5327038	.0632004	.1710105
Stddev	.020710	.35373	.0002421	.000513	.0127341	.0076769	.0016967
%RSD	.6487166	.8431958	.3861498	16.03922	2.390459	12.14699	.9921832
#1	3.194544	42.35206	.0625268	-.002899	.5438397	.0600211	.1729252
#2	3.212159	41.81678	.0629772	-.002901	.5354516	.0719562	.1696937
#3	3.170885	41.68382	.0625980	-.003788	.5188202	.0576237	.1704124

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.333631	2.091444	-.137242	.0051761	.8826868	8.478396	.0146733
Stddev	.150005	.010661	.002289	.0010127	.0042016	.102465	.0019593
%RSD	2.368396	.5097661	1.667687	19.56527	.4759991	1.208539	13.35292
#1	6.396222	2.079541	-.139035	.0042832	.8872094	8.485543	.0165785
#2	6.442204	2.100117	-.138026	.0062765	.8789046	8.577100	.0147772
#3	6.162466	2.094673	-.134664	.0049685	.8819465	8.372545	.0126641

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5061-06DLX2 Acquired: 01/03/2025 23:22:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL52D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2827768	.3860377	.0476105
Stddev	.0114868	.0016821	.0029476
%RSD	4.062153	.4357257	6.190984
#1	.2746022	.3870046	.0442946
#2	.2778181	.3870131	.0486038
#3	.2959100	.3840954	.0499330

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1871.402	19366.58	1907.966	1414.084	1788.396
Stddev	2.504	100.54	23.859	13.003	1.538
%RSD	.1338177	.5191646	1.250475	.9195315	.0859720
#1	1869.631	19253.15	1903.498	1399.140	1788.207
#2	1870.307	19401.84	1886.656	1422.820	1786.962
#3	1874.267	19444.74	1933.742	1420.291	1790.019

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5061-05DLX10 Acquired: 01/03/2025 23:26:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL52L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027188	.0195101	.0317172	-.015251	.0016753	6.209224	.0716144
Stddev	.0047876	.0024291	.0019280	.004530	.0041797	.033811	.0031234
%RSD	176.0954	12.45048	6.078551	29.70098	249.4865	.5445245	4.361428
#1	-.002257	.0218319	.0336347	-.017984	.0016545	6.196202	.0746838
#2	.007292	.0169863	.0317381	-.017746	.0058654	6.183861	.0684396
#3	.003121	.0197121	.0297789	-.010022	-.002494	6.247610	.0717198

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006160	.0001745	106.1560	.0101863	.0326306	.0136937	17.05253
Stddev	.0000301	.0000471	.4570	.0003150	.0002544	.0098654	.08047
%RSD	4.884549	27.00153	.4304747	3.092050	.7796279	72.04356	.4718657
#1	.0005824	.0002284	105.9474	.0105452	.0325078	.0024521	17.12047
#2	.0006250	.0001411	105.8406	.0100579	.0329231	.0209105	16.96367
#3	.0006405	.0001541	106.6801	.0099559	.0324609	.0177184	17.07346

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5891034	9.934743	.0076023	.0000672	.0704839	.0019517	.0332353
Stddev	.0040225	.071171	.0006213	.0025102	.0185553	.0051272	.0007371
%RSD	.6828131	.7163882	8.172272	3732.573	26.32558	262.7052	2.217724
#1	.5904181	9.907270	.0083115	.0003051	.0846739	-.002109	.0329340
#2	.5923040	9.881402	.0071538	-.002553	.0772915	.000251	.0340752
#3	.5845881	10.01556	.0073418	.002450	.0494863	.007713	.0326965

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.023374	.4159687	-.037970	.0049237	.1564565	1.280880	.0040995
Stddev	.154551	.0030316	.002980	.0005979	.0009546	.008726	.0004327
%RSD	15.10205	.7288181	7.847591	12.14360	.6101111	.6812373	10.55430
#1	.963810	.4129088	-.040959	.0054878	.1572259	1.273119	.0036009
#2	.907468	.4160260	-.035000	.0049865	.1553883	1.279196	.0043220
#3	1.198844	.4189713	-.037951	.0042969	.1567554	1.290325	.0043757

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5061-05DLX10 Acquired: 01/03/2025 23:26:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL52L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0311943	.0665313	.0002080
Stddev	.0060973	.0006498	.0071464
%RSD	19.54623	.9767065	3436.129
#1	.0242829	.0658562	-.006079
#2	.0334875	.0665852	.007981
#3	.0358125	.0671525	-.001278

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1845.877	18966.82	1836.482	1392.416	1965.327
Stddev	2.082	101.37	3.693	12.408	2.487
%RSD	.1127779	.5344534	.2010920	.8911170	.1265648
#1	1846.297	18854.62	1833.870	1385.652	1966.908
#2	1847.717	18994.05	1840.707	1384.861	1962.460
#3	1843.617	19051.80	1834.868	1406.737	1966.613

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5061-07DLX2 Acquired: 01/03/2025 23:30:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL52S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0818516	.0612944	.1635944	.0836680	.0944400	29.92126	2.161259
Stddev	.0037290	.0044899	.0020783	.0057047	.0087445	.07247	.007051
%RSD	4.555791	7.325108	1.270401	6.818256	9.259274	.2422185	.3262629
#1	.0793576	.0566783	.1636057	.0855643	.0843460	29.87705	2.156988
#2	.0861384	.0656464	.1615105	.0772566	.0992660	30.00490	2.169397
#3	.0800588	.0615586	.1656671	.0881830	.0997081	29.88182	2.157390

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0508353	.0500114	478.1808	.2375429	.5533743	.3100829	77.44135
Stddev	.0005787	.0001669	1.4990	.0005609	.0006837	.0090316	.26331
%RSD	1.138418	.3337234	.3134849	.2361099	.1235480	2.912654	.3400072
#1	.0508274	.0501881	477.0781	.2379045	.5541148	.3199606	77.30243
#2	.0514180	.0499898	479.8876	.2368968	.5527670	.3022470	77.74502
#3	.0502606	.0498564	477.5766	.2378273	.5532411	.3080410	77.27659

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.069240	44.40128	.5526408	.0303729	.5102623	.5354104	.5671334
Stddev	.013295	.16026	.0017143	.0008268	.0074472	.0071770	.0024589
%RSD	.4331758	.3609356	.3101958	2.722140	1.459477	1.340461	.4335738
#1	3.056691	44.31927	.5512029	.0302189	.5085547	.5391995	.5645593
#2	3.083173	44.58595	.5521817	.0296339	.5184149	.5398988	.5673827
#3	3.067855	44.29862	.5545379	.0312658	.5038172	.5271330	.5694582

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.401557	2.134019	-.130183	.0044992	.7972721	5.765571	.0105338
Stddev	.116081	.005568	.001183	.0012685	.0008404	.043472	.0004487
%RSD	2.149026	.2609127	.9089312	28.19462	.1054068	.7539930	4.259622
#1	5.344249	2.130213	-.130814	.0040021	.7964354	5.803126	.0100479
#2	5.535147	2.131434	-.130916	.0059410	.7972649	5.775638	.0106210
#3	5.325275	2.140409	-.128818	.0035545	.7981161	5.717948	.0109325

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5061-07DLX2 Acquired: 01/03/2025 23:30:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL52S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1509045	.3021571	.0412196
Stddev	.0020354	.0010296	.0029541
%RSD	1.348803	.3407510	7.166708
#1	.1530534	.3020296	.0429494
#2	.1506543	.3032445	.0429008
#3	.1490057	.3011972	.0378086

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1902.333	19608.58	1934.269	1429.391	1826.598
Stddev	4.596	44.35	14.887	5.149	1.101
%RSD	.2416089	.2261539	.7696333	.3602216	.0602576
#1	1906.606	19640.95	1923.745	1435.316	1826.379
#2	1897.470	19626.75	1927.761	1426.865	1827.792
#3	1902.923	19558.03	1951.302	1425.993	1825.623

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5061-08DLX2 Acquired: 01/03/2025 23:34:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL53 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0446086	.0169651	.1546007	.0082019	.0151001	34.16500	.3750206
Stddev	.0096820	.0068071	.0026648	.0067989	.0014385	.14617	.0027347
%RSD	21.70445	40.12446	1.723667	82.89442	9.526515	.4278467	.7292019
#1	.0470304	.0237766	.1530847	.0119186	.0165341	34.03982	.3722669
#2	.0528499	.0101623	.1530398	.0003548	.0136571	34.32565	.3750592
#3	.0339456	.0169563	.1576777	.0123323	.0151092	34.12954	.3777358

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0036315	.0014233	452.0912	.0567424	.0731312	.0797038	84.93412
Stddev	.0001023	.0001314	2.5915	.0007806	.0008073	.0077925	.55350
%RSD	2.817242	9.234735	.5732253	1.375662	1.103953	9.776803	.6516770
#1	.0035363	.0014865	449.7937	.0561620	.0740577	.0795997	84.41368
#2	.0037397	.0015111	454.9004	.0576298	.0725786	.0875478	85.51561
#3	.0036186	.0012722	451.5795	.0564354	.0727574	.0719639	84.87308

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.215501	41.54706	.0677087	-.004236	.6471450	.0610903	.2176814
Stddev	.026317	.24818	.0016871	.001145	.0136402	.0091882	.0012704
%RSD	.8184432	.5973494	2.491740	27.01982	2.107746	15.04032	.5835932
#1	3.194845	41.33654	.0661898	-.005199	.6347524	.0578134	.2190319
#2	3.245132	41.82071	.0695246	-.004539	.6617599	.0539898	.2165102
#3	3.206527	41.48392	.0674115	-.002971	.6449227	.0714677	.2175021

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.955913	3.237855	-.148794	.0041021	.8612977	6.283556	.0162694
Stddev	.103360	.003192	.002901	.0007029	.0089333	.048352	.0018315
%RSD	1.735426	.0985970	1.949893	17.13555	1.037193	.7695052	11.25738
#1	6.074322	3.234686	-.146305	.0042423	.8510959	6.228503	.0148448
#2	5.883753	3.237811	-.148096	.0033397	.8650767	6.303030	.0156281
#3	5.909663	3.241070	-.151980	.0047244	.8677204	6.319135	.0183353

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5061-08DLX2 Acquired: 01/03/2025 23:34:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL53 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2095070	.4629731	.0536393
Stddev	.0042845	.0016554	.0032737
%RSD	2.045033	.3575609	6.103131
#1	.2069359	.4612746	.0559241
#2	.2144530	.4645817	.0551048
#3	.2071322	.4630631	.0498889

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1940.637	19839.15	1971.710	1450.895	1822.130
Stddev	4.673	77.71	6.435	17.190	4.207
%RSD	.2407841	.3916854	.3263642	1.184778	.2308717
#1	1944.514	19789.31	1978.894	1432.614	1822.236
#2	1935.449	19799.45	1966.476	1453.340	1817.871
#3	1941.948	19928.69	1969.760	1466.732	1826.282

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCV107 Acquired: 01/03/2025 23:38:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV107 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.979886	4.845596	24.74007	4.887879	4.888198	401.3165
Stddev	.010559	.009820	.01299	.006508	.021410	1.9422
%RSD	.2120416	.2026547	.0525007	.1331550	.4380008	.4839545
#1	4.981986	4.856438	24.72780	4.893468	4.882937	400.2303
#2	4.968435	4.837299	24.73874	4.880734	4.869908	403.5588
#3	4.989238	4.843052	24.75367	4.889436	4.911748	400.1605

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.24817	.5174360	2.490970	409.7433	15.39352	2.502434
Stddev	.04000	.0019827	.001212	.8337	.01172	.001469
%RSD	.3903411	.3831725	.0486377	.2034614	.0761163	.0587107
#1	10.20830	.5155228	2.491136	408.9476	15.40298	2.501917
#2	10.24790	.5173039	2.489684	409.6721	15.38041	2.501293
#3	10.28830	.5194815	2.492090	410.6103	15.39716	2.504092

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.37344	406.6867	15.19393	405.3835	2.509388	1.249229
Stddev	.04250	1.4205	.04158	1.2193	.001117	.001313
%RSD	.2764460	.3492826	.2736636	.3007713	.0445162	.1051442
#1	15.34313	406.7097	15.15957	404.6616	2.509747	1.247729
#2	15.42202	408.0956	15.24015	406.7913	2.510281	1.249783
#3	15.35517	405.2549	15.18206	404.6977	2.508135	1.250175

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	414.5123	2.532695	14.54592	151.9291	4.927226	F 4.455943
Stddev	2.7836	.023436	.02338	.6606	.017934	.016850
%RSD	.6715431	.9253278	.1607018	.4348052	.3639859	.3781468
#1	414.8078	2.531484	14.57247	151.1742	4.938374	4.445972
#2	411.5927	2.556713	14.52843	152.4014	4.906538	4.475398
#3	417.1364	2.509889	14.53686	152.2116	4.936766	4.446459

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCV107 Acquired: 01/03/2025 23:38:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV107 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.890959	4.951091	5.053074	5.017284	5.069372	4.796131
Stddev	.016948	.022685	.007484	.005225	.007315	.015132
%RSD	.3465081	.4581914	.1481034	.1041473	.1443053	.3155099
#1	4.881245	4.929193	5.044928	5.014153	5.075502	4.785455
#2	4.881105	4.949590	5.054649	5.014383	5.071339	4.813449
#3	4.910529	4.974490	5.059645	5.023317	5.061274	4.789491

Elem	Li6707
Units	ppm
Avg	4.847716
Stddev	.025019
%RSD	.5160933
#1	4.824133
#2	4.845057
#3	4.873958

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1528.496	16700.75	1683.443	1144.477	1641.704
Stddev	3.269	42.41	4.750	3.285	1.719
%RSD	.2138618	.2539599	.2821455	.2870681	.1046867
#1	1531.152	16665.99	1684.751	1141.414	1643.506
#2	1529.489	16748.01	1687.401	1147.947	1640.084
#3	1524.845	16688.26	1678.176	1144.071	1641.521

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCB107 Acquired: 01/03/2025 23:41:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB107 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0089219	.0025006	-.002055	.0028027	.0007294	.0202229	-.002509
Stddev	.0044949	.0071664	.001221	.0033180	.0041421	.0572047	.001136
%RSD	50.38057	286.5880	59.43131	118.3851	567.8747	282.8716	45.26066
#1	.0140567	-.004734	-.002965	.0052771	-.002054	-.018966	-.001397
#2	.0056989	.009597	-.002532	.0040987	.005490	-.006233	-.003666
#3	.0070102	.002639	-.000667	-.000968	-.001248	.085867	-.002464

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000010	-.000052	-.021806	.0004651	.0000390	-.005833	.0332606
Stddev	.000099	.000091	.037811	.0008404	.0005043	.006807	.0194702
%RSD	1005.350	174.1495	173.4000	180.7082	1293.788	116.6983	58.53836
#1	.000034	-.000156	-.012450	.0013691	.0001163	-.000730	.0150879
#2	.000060	.000016	-.063416	.0003185	-.000500	-.013561	.0538101
#3	-.000123	-.000017	.010450	-.000292	.000500	-.003208	.0308838

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055705	-.223731	-.000783	.0006418	.1566383	-.001845	.0001754
Stddev	.0004637	.083480	.000754	.0002911	.0313305	.000755	.0004622
%RSD	8.323532	37.31249	96.34978	45.36501	20.00184	40.92935	263.5784
#1	.0050353	-.273754	-.001636	.0009542	.1866990	-.002687	-.000076
#2	.0058513	-.127360	-.000507	.0005932	.1590398	-.001227	-.000107
#3	.0058248	-.270079	-.000205	.0003780	.1241761	-.001621	.000709

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0771348	.0002810	.0090871	-.000120	-.013377	-.001814	.0010322
Stddev	.1659115	.0007017	.0025144	.000511	.001620	.000852	.0014248
%RSD	215.0929	249.7090	27.66965	424.9570	12.10776	46.97662	138.0364
#1	-.090277	-.000090	.0092165	-.000085	-.012476	-.001359	.0021647
#2	.241504	.001090	.0065105	.000373	-.015247	-.002797	-.000568
#3	.080178	-.000157	.0115342	-.000648	-.012408	-.001286	.001500

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCB107 Acquired: 01/03/2025 23:41:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB107 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.008798	-.000280	.0001166
Stddev	.002184	.000202	.0012768
%RSD	24.82977	72.28529	1094.882
#1	-.009194	-.000083	-.001339
#2	-.006442	-.000271	.001049
#3	-.010757	-.000487	.000640

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1847.123	18893.92	1811.732	1389.833	2051.910
Stddev	11.379	120.53	19.206	8.258	8.135
%RSD	.6160461	.6379185	1.060096	.5941925	.3964806
#1	1837.322	18798.05	1794.763	1385.394	2043.646
#2	1844.444	18854.49	1807.850	1384.744	2052.172
#3	1859.602	19029.22	1832.583	1399.362	2059.911

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5061-09DLX2 Acquired: 01/03/2025 23:45:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL54 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0108651	.0249229	.1192390	-.019233	.0065118	22.90250	.2746085
Stddev	.0047732	.0061871	.0006008	.004179	.0070385	.11441	.0015750
%RSD	43.93158	24.82503	.5038277	21.72692	108.0895	.4995494	.5735573
#1	.0078254	.0226905	.1195031	-.023329	.0143225	22.80512	.2738518
#2	.0163666	.0319163	.1196625	-.014976	.0006609	23.02850	.2764191
#3	.0084033	.0201618	.1185515	-.019394	.0045518	22.87388	.2735546

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023422	.0008596	625.5375	.0390021	.0654621	.0577888	53.83738
Stddev	.0001099	.0000633	2.9485	.0005781	.0007950	.0018540	.31483
%RSD	4.690758	7.358461	.4713487	1.482260	1.214440	3.208197	.5847747
#1	.0022211	.0009254	623.6761	.0393601	.0662018	.0597361	53.53834
#2	.0024355	.0008540	628.9370	.0393111	.0655631	.0560450	54.16592
#3	.0023701	.0007993	623.9995	.0383352	.0646215	.0575853	53.80787

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.056177	179.4754	.0466037	-.002486	.8250701	.0586424	.1702817
Stddev	.018868	.3144	.0006666	.000333	.0198893	.0121168	.0014644
%RSD	.6173791	.1751859	1.430368	13.38718	2.410617	20.66224	.8600007
#1	3.036482	179.1490	.0467292	-.002298	.8250175	.0572667	.1701920
#2	3.074093	179.7762	.0471986	-.002290	.8449857	.0713884	.1717889
#3	3.057955	179.5010	.0458833	-.002870	.8052072	.0472722	.1688642

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.247577	2.417942	-.073959	.0046253	.8796739	5.170680	.0048419
Stddev	.087756	.009380	.001059	.0002900	.0048269	.047132	.0022168
%RSD	2.066022	.3879162	1.432022	6.270171	.5487195	.9115222	45.78413
#1	4.201731	2.407114	-.073799	.0045945	.8741111	5.157064	.0057399
#2	4.192239	2.423172	-.075089	.0043519	.8821539	5.223121	.0064688
#3	4.348760	2.423541	-.072989	.0049294	.8827568	5.131854	.0023170

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5061-09DLX2 Acquired: 01/03/2025 23:45:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL54 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0819504	.3782457	.0433958
Stddev	.0022855	.0019251	.0028940
%RSD	2.788919	.5089503	6.668865
#1	.0815464	.3763715	.0435074
#2	.0844111	.3802179	.0462324
#3	.0798939	.3781476	.0404476

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1851.087	19161.97	1904.211	1397.352	1743.245
Stddev	4.636	57.48	7.621	4.887	3.751
%RSD	.2504377	.2999672	.4002181	.3496977	.2151453
#1	1848.127	19183.53	1899.793	1401.714	1739.613
#2	1848.703	19096.83	1899.829	1392.072	1743.017
#3	1856.429	19205.56	1913.011	1398.270	1747.104

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5061-11DLX2 Acquired: 01/03/2025 23:49:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL60 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0183349	.0225455	.1126788	-.002689	.0089875	16.49415	.1473215
Stddev	.0029011	.0043429	.0030957	.004859	.0043744	.05764	.0036784
%RSD	15.82251	19.26272	2.747397	180.7034	48.67184	.3494874	2.496825
#1	.0161558	.0226300	.1129566	-.000507	.0139678	16.55636	.1434318
#2	.0216278	.0268455	.1094535	.000696	.0072267	16.48354	.1507439
#3	.0172212	.0181610	.1156262	-.008257	.0057679	16.44254	.1477887

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019517	.0011082	544.7117	.0321058	.0626697	.0863922	62.92982
Stddev	.0000346	.0001955	1.9966	.0006095	.0012276	.0111723	.16836
%RSD	1.772622	17.63924	.3665442	1.898323	1.958784	12.93212	.2675401
#1	.0019123	.0011591	545.8482	.0324687	.0620324	.0896877	63.12064
#2	.0019773	.0012732	545.8807	.0324465	.0618919	.0955462	62.86664
#3	.0019654	.0008923	542.4063	.0314022	.0640849	.0739428	62.80219

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.374583	128.7705	.0391647	-.003849	.7283682	.0523568	.2051510
Stddev	.012687	.4306	.0009597	.001379	.0238212	.0228981	.0002586
%RSD	.3759461	.3343814	2.450300	35.83824	3.270488	43.73474	.1260651
#1	3.385670	129.1791	.0380662	-.005182	.7554758	.0734932	.2048912
#2	3.377332	128.8113	.0395879	-.002427	.7107730	.0280313	.2051532
#3	3.360747	128.3209	.0398400	-.003939	.7188559	.0555459	.2054085

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.303630	2.710828	-.123438	.0051153	.6001339	4.050905	.0072309
Stddev	.286831	.009789	.005132	.0002100	.0023753	.029080	.0008826
%RSD	12.45125	.3611224	4.157771	4.105227	.3957882	.7178695	12.20565
#1	2.600606	2.699719	-.128028	.0053557	.5981438	4.058886	.0078729
#2	2.282128	2.718193	-.124390	.0049672	.5994944	4.075162	.0075954
#3	2.028155	2.714571	-.117897	.0050231	.6027634	4.018668	.0062245

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5061-11DLX2 Acquired: 01/03/2025 23:49:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL60 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2017838	.3800906	.0294700
Stddev	.0053009	.0027566	.0026220
%RSD	2.627037	.7252527	8.897359
#1	.2007830	.3821814	.0266850
#2	.2075139	.3811237	.0298338
#3	.1970547	.3769667	.0318911

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1875.928	19371.28	1914.275	1409.863	1782.599
Stddev	4.014	76.31	6.489	8.070	2.981
%RSD	.2140007	.3939476	.3389987	.5724135	.1672393
#1	1875.947	19380.06	1913.707	1409.966	1780.793
#2	1871.904	19442.83	1908.089	1417.881	1780.964
#3	1879.933	19290.96	1921.030	1401.741	1786.040

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5061-22DLX2 Acquired: 01/03/2025 23:53:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKZ6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0267184	.0159565	.1324676	.0025281	.0138684	27.97904	.3489888
Stddev	.0024826	.0028011	.0010681	.0098869	.0019768	.08640	.0028701
%RSD	9.291682	17.55452	.8063372	391.0893	14.25369	.3087847	.8224020
#1	.0291668	.0174487	.1321446	.0126110	.0154178	27.93902	.3479589
#2	.0267854	.0127252	.1315984	.0021236	.0145452	28.07819	.3522318
#3	.0242030	.0176956	.1336600	-.007150	.0116421	27.91991	.3467758

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026268	.0022967	555.1677	.0512379	.0732156	.0602463	79.96469
Stddev	.0001727	.0001135	.5308	.0006670	.0009398	.0036085	.18772
%RSD	6.575179	4.942728	.0956181	1.301802	1.283533	5.989509	.2347566
#1	.0024290	.0024262	555.1315	.0504980	.0722919	.0618616	80.02929
#2	.0027481	.0022142	555.7158	.0514229	.0741706	.0561123	80.11159
#3	.0027032	.0022498	554.6559	.0517929	.0731842	.0627649	79.75321

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.035213	56.22188	.0704027	-.004003	.6575046	.0774974	.2417090
Stddev	.007115	.34581	.0009308	.001290	.0065209	.0111401	.0021511
%RSD	.1178932	.6150825	1.322125	32.22347	.9917588	14.37485	.8899456
#1	6.042889	55.88703	.0714428	-.003605	.6500576	.0786582	.2432620
#2	6.033912	56.57770	.0701172	-.005445	.6621912	.0658223	.2426112
#3	6.028839	56.20089	.0696480	-.002959	.6602652	.0880116	.2392537

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.648860	4.537939	-.140517	.0052075	.7859610	6.023223	.0153089
Stddev	.208005	.016796	.001928	.0007622	.0033022	.030634	.0026738
%RSD	4.474326	.3701321	1.371766	14.63596	.4201484	.5085993	17.46564
#1	4.580688	4.533606	-.139306	.0047456	.7896378	6.002827	.0133625
#2	4.882397	4.523734	-.142739	.0047897	.7849973	6.058450	.0142065
#3	4.483496	4.556478	-.139505	.0060872	.7832478	6.008392	.0183576

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5061-22DLX2 Acquired: 01/03/2025 23:53:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKZ6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4783753	.3408982	.0481144
Stddev	.0011684	.0006805	.0039408
%RSD	.2442367	.1996144	8.190404
#1	.4772125	.3416471	.0471724
#2	.4795491	.3407300	.0447299
#3	.4783642	.3403176	.0524407

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1919.314	19822.85	1973.335	1447.464	1781.907
Stddev	3.099	84.04	8.358	5.060	2.304
%RSD	.1614811	.4239608	.4235462	.3495728	.1292828
#1	1922.890	19727.02	1975.490	1442.796	1784.560
#2	1917.644	19857.51	1964.110	1446.756	1780.753
#3	1917.408	19884.01	1980.404	1452.841	1780.409

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5061-15DLX5 Acquired: 01/03/2025 23:57:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL64 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0617751	.0062156	.7664461	.0330162	.0094870	20.05647	.6884878
Stddev	.0018093	.0041249	.0024077	.0069309	.0016235	.17638	.0026376
%RSD	2.928794	66.36423	.3141439	20.99239	17.11266	.8794025	.3831038
#1	.0600540	.0100935	.7636703	.0339097	.0076144	20.09763	.6861270
#2	.0636612	.0066717	.7679697	.0256819	.0103491	19.86315	.6913346
#3	.0616101	.0018816	.7676984	.0394570	.0104977	20.20862	.6880018

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012174	.0037136	36.30478	.0451233	.0459181	.1189546	56.87941
Stddev	.0001759	.0000675	.12209	.0010943	.0002227	.0118955	.38470
%RSD	14.44848	1.816361	.3362952	2.425035	.4850004	10.00001	.6763405
#1	.0010596	.0037769	36.44532	.0440372	.0460353	.1289521	56.92601
#2	.0014071	.0037213	36.22485	.0462255	.0460578	.1057986	56.47353
#3	.0011856	.0036426	36.24417	.0451071	.0456613	.1221131	57.23869

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.89443	10.66539	.0508851	.0013310	.2212486	.0493414	1.792511
Stddev	.12524	.08524	.0010337	.0006144	.0091810	.0059426	.004987
%RSD	.7413087	.7991794	2.031500	46.16265	4.149610	12.04394	.2782101
#1	16.91574	10.57438	.0520769	.0016741	.2173579	.0548403	1.797641
#2	16.75991	10.67842	.0502327	.0016971	.2317342	.0501467	1.792211
#3	17.00765	10.74336	.0503456	.0006216	.2146536	.0430372	1.787680

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.654056	2.432830	-.121600	.0045817	.8271415	3.092539	.0617427
Stddev	.271189	.005038	.000773	.0017364	.0008099	.022652	.0015700
%RSD	10.21792	.2070709	.6357980	37.89830	.0979185	.7324719	2.542888
#1	2.424670	2.438553	-.122491	.0063574	.8279606	3.115137	.0601542
#2	2.953357	2.429069	-.121113	.0045000	.8263411	3.092645	.0617803
#3	2.584141	2.430867	-.121194	.0028876	.8271228	3.069833	.0632936

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5061-15DLX5 Acquired: 01/03/2025 23:57:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL64 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2297238	.0137002	.0196167
Stddev	.0066813	.0002113	.0034352
%RSD	2.908425	1.542376	17.51173
#1	.2332317	.0139408	.0201906
#2	.2220191	.0135447	.0159306
#3	.2339205	.0136152	.0227287

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1946.449	19891.12	1926.138	1468.361	1996.185
Stddev	1.450	139.92	15.358	8.366	2.225
%RSD	.0744975	.7034112	.7973599	.5697303	.1114821
#1	1947.433	19793.91	1908.896	1461.166	1993.925
#2	1944.784	20051.48	1938.352	1477.540	1996.255
#3	1947.131	19827.98	1931.167	1466.378	1998.374

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5079-06DLX2 Acquired: 01/04/2025 0:01:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLF4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0224349	.0284607	.5033218	-.019844	.0043818	16.81272
Stddev	.0014654	.0018428	.0050697	.004402	.0020547	.13370
%RSD	6.531763	6.474835	1.007258	22.18325	46.89205	.7952070
#1	.0235316	.0295686	.4974777	-.017254	.0034034	16.95981
#2	.0207707	.0263334	.5059481	-.017350	.0029992	16.77976
#3	.0230026	.0294801	.5065395	-.024926	.0067429	16.69858

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1810629	.0018373	.0042092	F 884.1140	.0629008	.0656335
Stddev	.0023144	.0002138	.0001256	3.0188	.0006094	.0004048
%RSD	1.278240	11.63560	2.985217	.3414481	.9688207	.6168011
#1	.1827982	.0019685	.0041603	887.3593	.0621972	.0656928
#2	.1784351	.0015906	.0043519	881.3895	.0632571	.0660054
#3	.1819552	.0019528	.0041153	883.5932	.0632482	.0652022

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0946571	59.27657	4.530582	351.0722	.0626968	-.002219
Stddev	.0037039	.13607	.007363	1.4998	.0016281	.000216
%RSD	3.912963	.2295528	.1625124	.4272158	2.596778	9.740592
#1	.0904113	59.43301	4.531675	352.7798	.0640512	-.002260
#2	.0972259	59.18568	4.522734	349.9679	.0608905	-.001985
#3	.0963340	59.21103	4.537337	350.4691	.0631489	-.002412

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.061456	.0198117	.6762242	5.240035	3.172351	-.072604
Stddev	.022812	.0108711	.0033932	.076892	.008077	.000797
%RSD	2.149113	54.87236	.5017793	1.467391	.2546220	1.098071
#1	1.067827	.0305552	.6783490	5.190501	3.169822	-.073044
#2	1.036135	.0088173	.6780126	5.200989	3.181390	-.073084
#3	1.080404	.0200626	.6723109	5.328615	3.165840	-.071684

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5079-06DLX2 Acquired: 01/04/2025 0:01:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLF4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050842	9.722059	4.643906	.0275503	.1835980	.3627943
Stddev	.0011982	.010202	.031362	.0021399	.0013524	.0010810
%RSD	23.56684	.1049400	.6753339	7.767381	.7365877	.2979751
#1	.0063425	9.729234	4.679936	.0252116	.1835813	.3636166
#2	.0049533	9.710379	4.622731	.0280289	.1849586	.3631966
#3	.0039569	9.726563	4.629052	.0294105	.1822541	.3615698

Elem	Li6707
Units	ppm
Avg	.0392152
Stddev	.0026772
%RSD	6.827030
#1	.0364257
#2	.0394559
#3	.0417640

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1739.830	18042.49	1812.592	1300.317	1653.265
Stddev	4.057	24.44	10.594	4.616	2.970
%RSD	.2332071	.1354461	.5844523	.3550136	.1796553
#1	1739.948	18043.99	1800.441	1296.582	1653.712
#2	1743.828	18066.14	1819.889	1298.890	1655.986
#3	1735.715	18017.33	1817.447	1305.478	1650.096

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5079-21DLX2 Acquired: 01/04/2025 0:05:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLH4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0747200	-.006262	2.674643	.0322797	.0159402	32.10411	14.30794
Stddev	.0128192	.003668	.005145	.0044486	.0008028	.18285	.06830
%RSD	17.15635	58.57703	.1923747	13.78151	5.036086	.5695604	.4773738
#1	.0877144	-.003482	2.675598	.0358007	.0161407	31.96458	14.27372
#2	.0743622	-.004884	2.669087	.0337583	.0150562	32.31111	14.26351
#3	.0620834	-.010419	2.679243	.0272800	.0166237	32.03664	14.38659

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032045	.0069507	45.34232	.1221514	.0505828	.2180647	77.70563
Stddev	.0001743	.0000660	.22582	.0010146	.0002530	.0035156	.28217
%RSD	5.438791	.9493375	.4980359	.8306046	.5000935	1.612188	.3631249
#1	.0032691	.0069166	45.17397	.1227487	.0504849	.2214554	77.39308
#2	.0033372	.0070268	45.25404	.1227256	.0508701	.2144363	77.94163
#3	.0030071	.0069087	45.59894	.1209799	.0503934	.2183023	77.78216

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.084704	16.80811	.0877696	-.002749	.3428055	.0950706	1.700249
Stddev	.017032	.07357	.0002971	.001432	.0164157	.0109464	.012898
%RSD	.4169640	.4376876	.3384494	52.10074	4.788643	11.51401	.7586103
#1	4.065116	16.77526	.0875620	-.001314	.3309089	.1011262	1.707551
#2	4.096021	16.75670	.0876370	-.004178	.3359737	.1016512	1.707839
#3	4.092975	16.89238	.0881099	-.002754	.3615338	.0824344	1.685356

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.026803	5.529592	-.147893	.0061990	4.630171	5.831243	.0627099
Stddev	.106082	.009840	.001662	.0000617	.014699	.054099	.0015217
%RSD	2.110319	.1779589	1.123585	.9946843	.3174556	.9277452	2.426580
#1	5.101349	5.538633	-.147507	.0061395	4.643751	5.893638	.0615178
#2	5.073705	5.519111	-.146458	.0061949	4.632198	5.802668	.0621880
#3	4.905355	5.531031	-.149714	.0062626	4.614564	5.797424	.0644239

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5079-21DLX2 Acquired: 01/04/2025 0:05:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLH4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4432505	.3958399	.0454608
Stddev	.0026735	.0007587	.0056976
%RSD	.6031513	.1916764	12.53310
#1	.4402198	.3952097	.0516130
#2	.4452743	.3966821	.0403659
#3	.4442575	.3956278	.0444034

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2001.955	20511.02	2004.783	1504.844	1990.882
Stddev	2.171	14.58	14.537	3.813	2.831
%RSD	.1084194	.0710699	.7251335	.2533556	.1421896
#1	2003.412	20527.55	1988.238	1506.831	1991.636
#2	2002.992	20500.00	2010.601	1500.449	1993.260
#3	1999.460	20505.51	2015.510	1507.253	1987.751

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5060-04DLX2 Acquired: 01/04/2025 0:08:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKW4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0315769	.0192803	.1171150	.0039197	.0101904	25.21215	.3060505
Stddev	.0024151	.0057353	.0026337	.0048829	.0033108	.03632	.0018196
%RSD	7.648215	29.74704	2.248822	124.5733	32.48899	.1440760	.5945428
#1	.0303610	.0138363	.1184137	-.000223	.0119083	25.18721	.3080663
#2	.0343583	.0252682	.1188472	.002679	.0122891	25.25382	.3045294
#3	.0300114	.0187364	.1140842	.009303	.0063738	25.19541	.3055559

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026245	.0018120	670.4024	.0424986	.0822262	.1307876	88.28116
Stddev	.0000839	.0000484	1.9990	.0017909	.0005135	.0045207	.32642
%RSD	3.195956	2.669363	.2981731	4.213976	.6244618	3.456550	.3697504
#1	.0026153	.0017710	670.2199	.0413062	.0816597	.1354048	88.04696
#2	.0025456	.0018653	672.4863	.0445580	.0823579	.1305881	88.65402
#3	.0027126	.0017995	668.5009	.0416317	.0826611	.1263699	88.14251

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.392963	165.5045	.0922065	-.004752	.8013342	.0602530	.2220748
Stddev	.011092	.5070	.0010229	.001199	.0141184	.0066042	.0007480
%RSD	.1321625	.3063160	1.109327	25.23512	1.761855	10.96071	.3368151
#1	8.382003	164.9249	.0933639	-.005754	.7850972	.0544419	.2223645
#2	8.392702	165.7228	.0918315	-.003423	.8081888	.0588822	.2212253
#3	8.404183	165.8657	.0914240	-.005078	.8107166	.0674350	.2226346

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.721113	3.133883	-.144539	.0060358	.7749973	6.167146	.0147870
Stddev	.156917	.002943	.003835	.0009723	.0027691	.017518	.0019893
%RSD	2.334685	.0939070	2.653197	16.10871	.3573077	.2840469	13.45302
#1	6.562069	3.131971	-.140131	.0060670	.7726525	6.168415	.0145279
#2	6.875812	3.132406	-.147108	.0050483	.7742869	6.149029	.0168931
#3	6.725458	3.137272	-.146378	.0069921	.7780524	6.183995	.0129399

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5060-04DLX2 Acquired: 01/04/2025 0:08:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKW4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1898453	.4326471	.0563165
Stddev	.0026396	.0012578	.0039278
%RSD	1.390374	.2907192	6.974468
#1	.1907232	.4313585	.0520777
#2	.1919340	.4338716	.0570386
#3	.1868787	.4327112	.0598331

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1850.039	19065.53	1910.269	1384.648	1713.675
Stddev	4.189	82.76	8.017	2.203	2.105
%RSD	.2264298	.4340616	.4196859	.1590999	.1228244
#1	1849.920	18985.66	1903.576	1382.147	1713.355
#2	1854.286	19060.04	1919.154	1386.300	1715.921
#3	1845.911	19150.90	1908.076	1385.498	1711.748

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5060-14DLX2 Acquired: 01/04/2025 0:12:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKX1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0536146	.0081820	.1402928	.0135017	.0184519	24.66936	.2065173
Stddev	.0026703	.0082251	.0076240	.0062016	.0038710	.09760	.0046530
%RSD	4.980583	100.5270	5.434373	45.93162	20.97881	.3956516	2.253084
#1	.0505336	.0030008	.1359829	.0114724	.0139850	24.58650	.2026546
#2	.0552616	.0176659	.1490957	.0204637	.0205440	24.77695	.2052143
#3	.0550485	.0038791	.1357999	.0085690	.0208266	24.64463	.2116829

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030247	.0018152	694.3101	.0373411	.0870226	.1801739	105.8988
Stddev	.0002076	.0001652	1.3119	.0003656	.0001699	.0146785	.0811
%RSD	6.864872	9.101686	.1889531	.9791842	.1951865	8.146838	.0765407
#1	.0031966	.0019579	694.1976	.0377630	.0868267	.1636404	105.8277
#2	.0027940	.0018536	693.0580	.0371458	.0871123	.1916720	105.9870
#3	.0030834	.0016342	695.6746	.0371147	.0871287	.1852091	105.8815

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.148480	92.58019	.0747826	-.006571	1.019501	.0812804	.2570938
Stddev	.003805	.25288	.0002285	.001572	.005054	.0167073	.0012373
%RSD	.0738990	.2731471	.3054792	23.92201	.4957770	20.55516	.4812711
#1	5.145071	92.74714	.0750137	-.008236	1.014872	.0852494	.2571907
#2	5.152584	92.70419	.0745569	-.006365	1.024894	.0629460	.2558110
#3	5.147786	92.28925	.0747773	-.005113	1.018738	.0956458	.2582799

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.612611	3.358428	-.197049	.0063419	.6936797	5.784914	.0175699
Stddev	.214037	.004798	.001043	.0004620	.0065396	.031665	.0032313
%RSD	3.813504	.1428560	.5293330	7.285439	.9427465	.5473769	18.39122
#1	5.578446	3.358748	-.198212	.0061221	.6980192	5.821477	.0168826
#2	5.417711	3.363057	-.196197	.0060308	.6861580	5.766620	.0210895
#3	5.841675	3.353478	-.196739	.0068728	.6968618	5.766644	.0147375

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5060-14DLX2 Acquired: 01/04/2025 0:12:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKX1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.137788	.6449028	.0523650
Stddev	.004915	.0002003	.0031819
%RSD	.4319919	.0310653	6.076376
#1	1.143289	.6450973	.0487522
#2	1.133829	.6449142	.0547503
#3	1.136244	.6446971	.0535926

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1877.390	19358.04	1925.819	1407.437	1743.242
Stddev	5.501	44.49	9.287	3.023	5.551
%RSD	.2930092	.2298284	.4822184	.2148160	.3184502
#1	1882.672	19389.89	1915.855	1405.676	1747.526
#2	1877.803	19307.21	1927.368	1410.928	1745.229
#3	1871.694	19377.02	1934.233	1405.707	1736.970

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5060-18DLX2 Acquired: 01/04/2025 0:16:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKX6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0202317	.0194346	.1226787	-.012333	.0087784	24.41952
Stddev	.0060680	.0048462	.0029357	.002512	.0012099	.09689
%RSD	29.99255	24.93601	2.392955	20.36410	13.78219	.3967906
#1	.0259384	.0153499	.1246473	-.013346	.0075090	24.50443
#2	.0138576	.0181646	.1193046	-.014180	.0089080	24.44018
#3	.0208991	.0247894	.1240843	-.009473	.0099183	24.31397

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2156398	.0020210	.0010398	515.9825	.0419562	.0633743
Stddev	.0019945	.0000734	.0001844	2.5357	.0003970	.0006157
%RSD	.9249013	3.630782	17.73290	.4914317	.9462207	.9715897
#1	.2168163	.0020782	.0008277	517.0294	.0418926	.0638644
#2	.2133370	.0019382	.0011621	517.8271	.0415948	.0626832
#3	.2167661	.0020465	.0011297	513.0910	.0423811	.0635755

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0278560	63.25616	2.427359	173.7240	.0454736	-.003631
Stddev	.0117409	.09597	.012011	.5959	.0018577	.000410
%RSD	42.14859	.1517155	.4948200	.3430175	4.085210	11.29434
#1	.0412651	63.31102	2.427885	173.8588	.0476093	-.003345
#2	.0194204	63.31212	2.439098	174.2410	.0442317	-.004100
#3	.0228826	63.14535	2.415094	173.0723	.0445800	-.003447

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9484520	.0676480	.2496010	3.484956	F 11.56338	-.116994
Stddev	.0131651	.0145331	.0006612	.130424	.01427	.006328
%RSD	1.388061	21.48333	.2649012	3.742476	.1234269	5.408525
#1	.9568014	.0777094	.2497718	3.492295	11.57986	-.122850
#2	.9332757	.0509861	.2488712	3.351018	11.55467	-.117850
#3	.9552789	.0742486	.2501601	3.611555	11.55563	-.110282

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5060-18DLX2 Acquired: 01/04/2025 0:16:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKX6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0060333	.8056127	6.208482	.0135320	.3434231	.2890234
Stddev	.0004295	.0010746	.073573	.0008833	.0080316	.0006928
%RSD	7.117919	.1333922	1.185034	6.527096	2.338683	.2396922
#1	.0056750	.8046591	6.278825	.0145233	.3348512	.2888844
#2	.0065093	.8067771	6.214565	.0132442	.3507747	.2897752
#3	.0059155	.8054018	6.132058	.0128286	.3446434	.2884107

Elem	Li6707
Units	ppm
Avg	.0486001
Stddev	.0032783
%RSD	6.745495
#1	.0471958
#2	.0523467
#3	.0462579

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1916.777	19754.60	1956.023	1432.138	1731.749
Stddev	3.815	15.33	19.560	7.263	4.584
%RSD	.1990433	.0776029	.9999998	.5071452	.2646802
#1	1919.494	19741.90	1938.146	1426.805	1735.713
#2	1918.421	19771.63	1953.006	1440.410	1732.803
#3	1912.415	19750.27	1976.916	1429.198	1726.730

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5060-19DLX2 Acquired: 01/04/2025 0:20:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKX7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0150363	.0223756	.0820439	-.001005	.0095662	21.32009	.1924811
Stddev	.0035317	.0015149	.0011616	.005547	.0022055	.05497	.0022946
%RSD	23.48791	6.770406	1.415829	552.0749	23.05534	.2578515	1.192109
#1	.0153324	.0218708	.0824706	-.001553	.0104449	21.25912	.1899043
#2	.0113658	.0240784	.0807294	-.006257	.0111969	21.33526	.1932359
#3	.0184106	.0211775	.0829319	.004796	.0070568	21.36588	.1943033

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020676	.0009685	502.4069	.0378595	.0642391	.0312105	65.97617
Stddev	.0001317	.0000789	1.6008	.0006406	.0001904	.0055328	.10436
%RSD	6.371890	8.142735	.3186166	1.692148	.2964325	17.72735	.1581753
#1	.0020416	.0009952	502.3064	.0373892	.0641012	.0339754	66.07156
#2	.0019508	.0010306	500.8588	.0385891	.0641596	.0248403	65.86470
#3	.0022104	.0008798	504.0556	.0376001	.0644564	.0348159	65.99224

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.964061	85.26836	.0523178	-.003787	.5750670	.0687477	.2152813
Stddev	.024270	.15316	.0004695	.001137	.0282809	.0107440	.0012392
%RSD	.4889102	.1796179	.8973443	30.02295	4.917854	15.62816	.5756142
#1	4.961050	85.44377	.0518038	-.004436	.5887592	.0795190	.2145918
#2	4.941437	85.16117	.0527240	-.004452	.5425459	.0580312	.2145402
#3	4.989696	85.20013	.0524254	-.002474	.5938959	.0686929	.2167119

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.476626	3.411577	-.121460	.0054656	.4537824	5.925287	.0103834
Stddev	.132237	.007737	.002216	.0008884	.0032801	.046803	.0015175
%RSD	2.953937	.2267974	1.824658	16.25450	.7228363	.7898791	14.61444
#1	4.440973	3.408229	-.121801	.0064518	.4575580	5.950580	.0097230
#2	4.365871	3.406077	-.119093	.0052172	.4516340	5.871280	.0121192
#3	4.623034	3.420425	-.123486	.0047278	.4521552	5.954000	.0093080

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5060-19DLX2 Acquired: 01/04/2025 0:20:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKX7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2601878	.2740832	.0396565
Stddev	.0041860	.0010368	.0015370
%RSD	1.608830	.3782750	3.875787
#1	.2627502	.2739292	.0381360
#2	.2624559	.2731320	.0396242
#3	.2553572	.2751884	.0412095

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1883.512	19357.94	1918.032	1412.018	1780.919
Stddev	1.996	72.38	8.606	3.339	2.499
%RSD	.1059539	.3739200	.4486690	.2364684	.1403136
#1	1882.722	19384.57	1914.265	1414.984	1783.135
#2	1882.032	19276.02	1927.879	1408.401	1781.412
#3	1885.782	19413.24	1911.952	1412.667	1778.211

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5060-21DLX2 Acquired: 01/04/2025 0:24:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL58 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0362110	.0156679	.0911526	.0041703	.0148095	21.68862	.2029160
Stddev	.0043800	.0008812	.0015067	.0008858	.0027164	.03709	.0041815
%RSD	12.09566	5.623954	1.652929	21.24016	18.34221	.1710112	2.060703
#1	.0396876	.0163298	.0903027	.0043374	.0120581	21.70470	.1986250
#2	.0376536	.0160063	.0902629	.0032128	.0148810	21.64620	.2031445
#3	.0312917	.0146677	.0928922	.0049605	.0174895	21.71495	.2069786

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024750	.0014530	526.1753	.0358394	.0661792	.1059399	86.09136
Stddev	.0001917	.0000657	1.1544	.0004990	.0006909	.0100663	.14804
%RSD	7.743868	4.523303	.2193910	1.392383	1.043955	9.501902	.1719543
#1	.0022539	.0015194	524.9911	.0362591	.0668534	.1035340	85.93146
#2	.0025773	.0013880	526.2376	.0352877	.0654728	.1169911	86.11896
#3	.0025938	.0014517	527.2973	.0359715	.0662115	.0972945	86.22365

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.210534	101.2943	.0546486	-.006565	.8315056	.0706515	.2719319
Stddev	.026805	.2511	.0005787	.001318	.0287997	.0182199	.0005302
%RSD	.6366193	.2479292	1.058880	20.07802	3.463557	25.78839	.1949818
#1	4.189062	101.1212	.0542939	-.006450	.7982731	.0914843	.2713996
#2	4.201963	101.1792	.0543355	-.005309	.8470645	.0627766	.2719362
#3	4.240576	101.5823	.0553163	-.007938	.8491793	.0576936	.2724600

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.996646	3.770003	-.170487	.0080117	.5729008	5.905078	.0133093
Stddev	.208954	.004006	.002407	.0007661	.0065101	.013273	.0026027
%RSD	10.46526	.1062557	1.412109	9.562503	1.136342	.2247751	19.55513
#1	2.045633	3.766763	-.168138	.0076134	.5686809	5.917082	.0147797
#2	2.176754	3.768765	-.172949	.0075267	.5803983	5.890823	.0148440
#3	1.767550	3.774482	-.170375	.0088949	.5696233	5.907328	.0103043

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5060-21DLX2 Acquired: 01/04/2025 0:24:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL58 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4109511	.3893011	.0426869
Stddev	.0046992	.0003983	.0008339
%RSD	1.143499	.1023114	1.953437
#1	.4075451	.3894553	.0417352
#2	.4089959	.3888488	.0432891
#3	.4163122	.3895993	.0430364

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1876.279	19327.38	1910.480	1407.450	1765.103
Stddev	7.680	91.74	3.212	5.751	7.070
%RSD	.4092997	.4746773	.1681299	.4086275	.4005641
#1	1878.533	19429.31	1913.924	1413.819	1767.486
#2	1882.579	19251.42	1909.950	1402.636	1770.673
#3	1867.724	19301.40	1907.565	1405.895	1757.148

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5062-01DLX2 Acquired: 01/04/2025 0:28:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKZ7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0115211	.0202438	.0781946	.0037555	.0127648	29.61887
Stddev	.0030050	.0030620	.0032775	.0013755	.0040434	.11647
%RSD	26.08241	15.12557	4.191421	36.62640	31.67667	.3932357
#1	.0139497	.0190865	.0744702	.0026429	.0089515	29.73649
#2	.0124530	.0179291	.0806385	.0052935	.0123382	29.50358
#3	.0081605	.0237157	.0794752	.0033303	.0170046	29.61653

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6053001	.0032330	.0036778	F 848.9345	.0648141	.0836553
Stddev	.0019271	.0001272	.0000247	1.2304	.0008482	.0010765
%RSD	.3183741	3.933145	.6730419	.1449326	1.308626	1.286783
#1	.6044845	.0030865	.0036988	850.1158	.0651264	.0825367
#2	.6075009	.0032977	.0036842	847.6603	.0654620	.0846840
#3	.6039148	.0033148	.0036505	849.0274	.0638541	.0837453

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0424567	89.01996	8.063135	24.96214	.0972969	-.006642
Stddev	.0051874	.08067	.014962	.16201	.0009285	.001064
%RSD	12.21807	.0906242	.1855600	.6490285	.9542523	16.01835
#1	.0476934	88.93302	8.078232	25.13369	.0962832	-.006664
#2	.0373201	89.03446	8.048312	24.81174	.0981060	-.005567
#3	.0423566	89.09240	8.062860	24.94098	.0975015	-.007694

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6026942	.0711538	.1649938	6.434201	2.660274	-.136486
Stddev	.0181578	.0054208	.0007652	.292189	.004427	.002098
%RSD	3.012775	7.618420	.4638060	4.541184	.1664120	1.536869
#1	.5969766	.0756216	.1658553	6.754324	2.662477	-.137642
#2	.6230226	.0651233	.1643931	6.181862	2.655177	-.134065
#3	.5880834	.0727165	.1647329	6.366416	2.663167	-.137752

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5062-01DLX2 Acquired: 01/04/2025 0:28:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKZ7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030862	.6613851	6.005634	.0147857	.5759371	.3732180
Stddev	.0002137	.0021765	.022224	.0015521	.0046150	.0007351
%RSD	6.923871	.3290783	.3700572	10.49725	.8013092	.1969480
#1	.0030768	.6600012	5.986928	.0144416	.5722659	.3737314
#2	.0033043	.6602603	6.030201	.0164810	.5744275	.3723760
#3	.0028773	.6638938	5.999772	.0134346	.5811179	.3735466

Elem	Li6707
Units	ppm
Avg	.0593359
Stddev	.0017268
%RSD	2.910243
#1	.0576729
#2	.0592147
#3	.0611202

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1901.175	19539.77	1954.721	1421.352	1767.148
Stddev	1.977	47.00	7.551	7.542	2.146
%RSD	.1040139	.2405526	.3862745	.5305870	.1214453
#1	1903.270	19578.57	1963.420	1417.533	1769.612
#2	1899.340	19553.24	1950.886	1430.039	1765.690
#3	1900.917	19487.50	1949.859	1416.484	1766.141

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5062-02DLX2 Acquired: 01/04/2025 0:31:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKZ8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0150078	.0232568	.0732379	.0031667	.0144622	27.36624
Stddev	.0028402	.0049381	.0015046	.0036826	.0049340	.03918
%RSD	18.92464	21.23280	2.054415	116.2913	34.11679	.1431789
#1	.0156344	.0178294	.0749226	.0065794	.0183115	27.33973
#2	.0174823	.0244566	.0727633	.0036571	.0161752	27.34775
#3	.0119066	.0274844	.0720279	-.000737	.0089000	27.41125

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5784289	.0026543	.0032068	F 841.4856	.0578661	.0829863
Stddev	.0021942	.0001811	.0001209	2.0163	.0001963	.0013332
%RSD	.3793309	6.823967	3.768920	.2396155	.3392198	1.606571
#1	.5765582	.0025154	.0031786	839.4035	.0578250	.0841116
#2	.5778845	.0028592	.0031025	843.4289	.0576937	.0815138
#3	.5808440	.0025883	.0033393	841.6243	.0580797	.0833335

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0573692	80.14199	8.079108	30.77403	.0869123	-.004879
Stddev	.0108839	.12130	.016984	.25149	.0007216	.000583
%RSD	18.97172	.1513504	.2102198	.8172308	.8302979	11.94543
#1	.0697021	80.04612	8.098618	31.03490	.0877429	-.004740
#2	.0532966	80.10150	8.067631	30.53310	.0865550	-.005519
#3	.0491089	80.27835	8.071074	30.75408	.0864391	-.004379

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6434979	.0534108	.1477721	6.336511	2.540575	-.120107
Stddev	.0214923	.0138060	.0008740	.219844	.005039	.004106
%RSD	3.339917	25.84874	.5914638	3.469483	.1983496	3.418881
#1	.6579312	.0455081	.1487814	6.565610	2.536313	-.123711
#2	.6537649	.0453719	.1472705	6.127268	2.539275	-.115637
#3	.6187976	.0693525	.1472646	6.316655	2.546137	-.120973

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5062-02DLX2 Acquired: 01/04/2025 0:31:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKZ8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034037	.7160388	6.153545	.0157411	.6095152	.4249256
Stddev	.0003899	.0074249	.041557	.0022519	.0079303	.0008037
%RSD	11.45489	1.036942	.6753402	14.30580	1.301079	.1891335
#1	.0036866	.7079016	6.189239	.0148113	.6031798	.4241223
#2	.0029590	.7224458	6.107923	.0183091	.6184089	.4257297
#3	.0035656	.7177690	6.163472	.0141031	.6069571	.4249248

Elem	Li6707
Units	ppm
Avg	.0580277
Stddev	.0061314
%RSD	10.56635
#1	.0586181
#2	.0638425
#3	.0516224

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1865.015	19163.15	1922.006	1398.198	1748.117
Stddev	2.841	23.69	13.100	3.692	3.307
%RSD	.1523577	.1236373	.6815706	.2640877	.1891573
#1	1864.281	19190.42	1910.721	1400.865	1749.412
#2	1868.151	19147.67	1936.372	1393.983	1750.581
#3	1862.612	19151.35	1918.925	1399.745	1744.359

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5062-03DLX2 Acquired: 01/04/2025 0:35:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKZ9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0335619	.0233173	.1339086	-.008182	.0106165	25.32289	.3479277
Stddev	.0063460	.0040287	.0024697	.000608	.0024119	.06695	.0008167
%RSD	18.90825	17.27755	1.844347	7.433394	22.71801	.2643806	.2347293
#1	.0266744	.0227964	.1315048	-.008054	.0101249	25.34533	.3487367
#2	.0391720	.0275811	.1364394	-.007648	.0084883	25.24761	.3479427
#3	.0348392	.0195745	.1337818	-.008844	.0132363	25.37574	.3471036

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024391	.0019557	749.1938	.0550803	.0785751	.1447745	72.20353
Stddev	.0000990	.0000335	1.6837	.0008513	.0005912	.0107200	.28195
%RSD	4.056942	1.712891	.2247324	1.545549	.7524184	7.404585	.3904907
#1	.0024471	.0019887	750.8954	.0542189	.0791760	.1571224	72.32536
#2	.0025339	.0019566	749.1574	.0551010	.0779940	.1393516	71.88115
#3	.0023364	.0019217	747.5286	.0559211	.0785552	.1378494	72.40407

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.147247	94.78909	.0715179	-.003613	.9024482	.0672170	.2426535
Stddev	.012250	.60491	.0012195	.002242	.0277382	.0143192	.0026106
%RSD	.2379942	.6381600	1.705193	62.06965	3.073665	21.30296	1.075870
#1	5.161258	95.36417	.0727178	-.005640	.9147865	.0639687	.2397832
#2	5.141926	94.15822	.0715562	-.003993	.8706815	.0828812	.2432908
#3	5.138557	94.84487	.0702796	-.001204	.9218766	.0548009	.2448865

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.735256	2.158965	-.101154	.0044014	1.026972	5.397348	.0121160
Stddev	.070553	.003021	.002386	.0008170	.010048	.038538	.0040139
%RSD	1.230156	.1399394	2.358421	18.56347	.9784406	.7140196	33.12841
#1	5.776309	2.156154	-.101450	.0044730	1.034896	5.419945	.0074813
#2	5.653790	2.162160	-.098635	.0035508	1.030350	5.352850	.0144552
#3	5.775669	2.158580	-.103379	.0051802	1.015670	5.419250	.0144116

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5062-03DLX2 Acquired: 01/04/2025 0:35:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKZ9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3698514	.5799375	.0470204
Stddev	.0045828	.0012880	.0039157
%RSD	1.239093	.2220991	8.327668
#1	.3750567	.5810623	.0498415
#2	.3680734	.5785324	.0486699
#3	.3664240	.5802179	.0425498

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1834.108	18890.67	1881.466	1372.602	1737.077
Stddev	.649	148.06	10.845	5.600	2.951
%RSD	.0353585	.7837496	.5764221	.4079953	.1699032
#1	1834.392	18811.85	1869.899	1377.523	1736.737
#2	1833.366	18798.70	1891.405	1366.508	1734.310
#3	1834.565	19061.46	1883.094	1373.775	1740.184

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5062-10DLX2 Acquired: 01/04/2025 0:39:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL24 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0699108	.0124205	.7308237	.0213477	.0197720	38.22414	.6512891
Stddev	.0049864	.0007512	.0049397	.0026600	.0011895	.10947	.0034007
%RSD	7.132465	6.048001	.6759042	12.46022	6.016204	.2863835	.5221522
#1	.0701364	.0129433	.7293452	.0183189	.0188702	38.12356	.6483696
#2	.0648155	.0115597	.7267921	.0233037	.0211201	38.20813	.6504745
#3	.0747806	.0127585	.7363338	.0224207	.0193256	38.34073	.6550231

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0036705	.0036586	293.5731	.0695489	.0783179	.1523360	94.51463
Stddev	.0000414	.0001301	.3067	.0005340	.0004111	.0108581	.34927
%RSD	1.126695	3.555823	.1044629	.7678292	.5248789	7.127744	.3695382
#1	.0036988	.0037741	293.4987	.0690301	.0779565	.1595117	94.21854
#2	.0036230	.0036840	293.3105	.0695198	.0782322	.1576520	94.42553
#3	.0036896	.0035177	293.9101	.0700969	.0787651	.1398441	94.89982

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.699079	39.67945	.0893489	-.004159	.5486505	.0998941	.6529911
Stddev	.015553	.07513	.0002023	.000612	.0251113	.0120846	.0016197
%RSD	.2321600	.1893308	.2263906	14.70807	4.576927	12.09737	.2480396
#1	6.681771	39.73242	.0892326	-.004600	.5764086	.0909466	.6545087
#2	6.703583	39.59347	.0895825	-.003460	.5275124	.1136411	.6531790
#3	6.711882	39.71244	.0892316	-.004416	.5420306	.0950946	.6512857

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.319193	4.484841	-.172604	.0095942	1.218067	6.686792	.0585023
Stddev	.014572	.011744	.002503	.0006849	.003630	.011751	.0017103
%RSD	.2739542	.2618542	1.449955	7.138368	.2979731	.1757368	2.923521
#1	5.335954	4.478013	-.173953	.0097106	1.214229	6.697973	.0575837
#2	5.309530	4.478108	-.169716	.0102133	1.218529	6.674543	.0604756
#3	5.312094	4.498401	-.174143	.0088585	1.221443	6.687858	.0574476

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5062-10DLX2 Acquired: 01/04/2025 0:39:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL24 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4545617	.2321880	.0614342
Stddev	.0025810	.0004316	.0022133
%RSD	.5677921	.1858908	3.602779
#1	.4575417	.2319472	.0605521
#2	.4530410	.2326863	.0597978
#3	.4531023	.2319305	.0639525

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1936.755	19866.35	1964.299	1449.704	1854.726
Stddev	1.738	52.07	1.301	.379	1.589
%RSD	.0897315	.2621051	.0662361	.0261737	.0856705
#1	1935.859	19899.89	1964.394	1449.281	1853.413
#2	1935.649	19806.37	1965.550	1449.815	1856.493
#3	1938.758	19892.81	1962.953	1450.015	1854.273

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5062-13DLX2 Acquired: 01/04/2025 0:43:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL27 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0362699	.0123424	.1843795	.0072983	.0144962	33.91459	.6832022
Stddev	.0025833	.0045978	.0046000	.0017970	.0023799	.20362	.0055206
%RSD	7.122382	37.25174	2.494872	24.62252	16.41731	.6003979	.8080474
#1	.0390628	.0155530	.1891961	.0090300	.0164641	34.13597	.6827026
#2	.0339662	.0143990	.1839103	.0054424	.0151733	33.87248	.6889557
#3	.0357808	.0070754	.1800320	.0074224	.0118511	33.73531	.6779484

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032458	.0024951	525.8706	.0566394	.0817831	.1195708	90.96384
Stddev	.0001140	.0001460	1.2794	.0012770	.0002822	.0101935	.22194
%RSD	3.513070	5.849957	.2432847	2.254684	.3450678	8.525116	.2439920
#1	.0033675	.0023268	525.7196	.0577431	.0814666	.1211505	90.81597
#2	.0031414	.0025871	527.2188	.0552407	.0820085	.1288822	91.21905
#3	.0032284	.0025715	524.6735	.0569345	.0818743	.1086796	90.85650

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.266513	43.58702	.0926284	-.005922	.6476370	.0605708	.2831502
Stddev	.001533	.21426	.0005896	.001314	.0269960	.0060800	.0008185
%RSD	.0244602	.4915732	.6365090	22.18725	4.168379	10.03790	.2890845
#1	6.266502	43.65084	.0919507	-.004923	.6499995	.0603427	.2825548
#2	6.268052	43.76213	.0929111	-.005432	.6195375	.0546080	.2828123
#3	6.264986	43.34810	.0930234	-.007410	.6733741	.0667617	.2840837

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.038248	3.280037	-.148976	.0066998	.8578091	6.474423	.0146353
Stddev	.126137	.002502	.001522	.0005443	.0049709	.063347	.0013417
%RSD	2.088972	.0762897	1.021723	8.124271	.5794907	.9784134	9.167327
#1	5.895193	3.281645	-.150720	.0061794	.8629741	6.545640	.0153729
#2	6.133483	3.277154	-.147914	.0072652	.8530581	6.424361	.0130867
#3	6.086069	3.281313	-.148295	.0066547	.8573952	6.453268	.0154463

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5062-13DLX2 Acquired: 01/04/2025 0:43:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL27 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3991456	.3367446	.0612565
Stddev	.0017115	.0011401	.0042716
%RSD	.4288016	.3385553	6.973329
#1	.3971743	.3369609	.0563262
#2	.4000099	.3377611	.0635955
#3	.4002527	.3355119	.0638478

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1901.411	19454.77	1931.294	1421.315	1793.392
Stddev	1.558	10.66	17.666	2.174	3.882
%RSD	.0819326	.0547925	.9147089	.1529271	.2164516
#1	1900.537	19464.42	1912.108	1423.738	1791.011
#2	1903.210	19456.55	1946.888	1420.670	1797.871
#3	1900.487	19443.33	1934.884	1419.538	1791.292

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5062-14DLX2 Acquired: 01/04/2025 0:47:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL68 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0327199	.0207348	.1954322	.0000641	.0134157	29.41834	.3574786
Stddev	.0054790	.0028498	.0037801	.0069164	.0017549	.09429	.0009067
%RSD	16.74503	13.74403	1.934245	10789.10	13.08058	.3205087	.2536316
#1	.0274538	.0175410	.1981594	.0058118	.0119487	29.44109	.3566149
#2	.0323165	.0216453	.1911171	.0019923	.0129387	29.49917	.3584229
#3	.0383895	.0230181	.1970202	-.007612	.0153598	29.31476	.3573979

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027427	.0018583	508.3431	.0500379	.0711251	.0814999	75.66543
Stddev	.0000660	.0001564	.1822	.0009773	.0007088	.0046674	.10343
%RSD	2.406463	8.416300	.0358515	1.953181	.9965020	5.726882	.1366991
#1	.0027146	.0016779	508.3770	.0494736	.0711690	.0777346	75.72218
#2	.0028182	.0019418	508.1463	.0511664	.0703954	.0867219	75.72807
#3	.0026955	.0019554	508.5060	.0494737	.0718109	.0800431	75.54604

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.652525	48.05198	.0664420	-.005184	.6011738	.0699378	.2593428
Stddev	.006932	.11205	.0004769	.001450	.0063394	.0088964	.0008407
%RSD	.1489844	.2331762	.7177190	27.96241	1.054511	12.72040	.3241551
#1	4.660132	47.93354	.0665972	-.003613	.6083891	.0610717	.2583878
#2	4.650874	48.06612	.0659069	-.006470	.5986352	.0788642	.2596696
#3	4.646567	48.15629	.0668220	-.005470	.5964970	.0698775	.2599711

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.906803	2.856579	-.131854	.0064629	.8760171	6.417503	.0174845
Stddev	.217510	.005683	.004127	.0003471	.0061210	.019271	.0009278
%RSD	4.432827	.1989465	3.129662	5.370880	.6987307	.3002937	5.306254
#1	4.787312	2.859071	-.135490	.0067523	.8794145	6.412570	.0170850
#2	4.775231	2.850075	-.127369	.0060781	.8689509	6.438762	.0168234
#3	5.157865	2.860590	-.132705	.0065585	.8796860	6.401179	.0185451

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5062-14DLX2 Acquired: 01/04/2025 0:47:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL68 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4307039	.4612171	.0514159
Stddev	.0042553	.0010696	.0025457
%RSD	.9879996	.2318982	4.951183
#1	.4268531	.4601087	.0542420
#2	.4352725	.4622430	.0507033
#3	.4299861	.4612997	.0493025

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1859.201	19183.55	1888.410	1397.675	1785.570
Stddev	4.376	106.17	1.174	5.277	4.425
%RSD	.2353966	.5534422	.0621854	.3775568	.2478451
#1	1856.366	19163.32	1887.258	1394.035	1783.395
#2	1864.241	19298.39	1889.605	1403.727	1790.662
#3	1856.996	19088.96	1888.367	1395.264	1782.653

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5062-20DLX2 Acquired: 01/04/2025 0:51:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLD2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0913953	-.012263	.2068175	.0793993	.0283526	46.69344	1.516623
Stddev	.0027077	.006487	.0017686	.0057710	.0023731	.26197	.005337
%RSD	2.962648	52.89648	.8551409	7.268259	8.369839	.5610367	.3518942
#1	.0944705	-.009905	.2048949	.0733264	.0259280	46.45881	1.510858
#2	.0893687	-.019599	.2083751	.0848113	.0306706	46.97609	1.521391
#3	.0903468	-.007285	.2071826	.0800602	.0284590	46.64541	1.517621

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032287	.0068618	25.79383	.1048564	.0838560	.1755110	141.2897
Stddev	.0001204	.0000994	.06075	.0003206	.0006785	.0052226	.5914
%RSD	3.728926	1.449193	.2355227	.3057466	.8091086	2.975652	.4185623
#1	.0033670	.0067645	25.72688	.1050788	.0839282	.1780412	141.0280
#2	.0031471	.0069632	25.84544	.1050015	.0831443	.1695053	141.9667
#3	.0031720	.0068576	25.80917	.1044889	.0844955	.1789867	140.8742

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.37726	22.69617	.2277473	-.007598	.4785252	.1299033	.3878357
Stddev	.13661	.10535	.0009733	.000526	.0283354	.0128831	.0049469
%RSD	.5383012	.4641778	.4273769	6.917929	5.921411	9.917490	1.275519
#1	25.30346	22.80089	.2288481	-.007890	.4951155	.1210813	.3932862
#2	25.53489	22.69742	.2270005	-.007912	.4458073	.1446876	.3865909
#3	25.29342	22.59021	.2273932	-.006991	.4946528	.1239410	.3836301

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.453997	3.974001	-.286149	.0055780	.4774933	6.540802	.1013766
Stddev	.290799	.010094	.004130	.0010716	.0022143	.048829	.0026147
%RSD	3.901246	.2540056	1.443250	19.21167	.4637252	.7465295	2.579144
#1	7.147225	3.974491	-.289885	.0044182	.4756471	6.561423	.0983574
#2	7.489137	3.963671	-.286847	.0057844	.4768846	6.575938	.1028795
#3	7.725629	3.983841	-.281715	.0065315	.4799483	6.485046	.1028928

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5062-20DLX2 Acquired: 01/04/2025 0:51:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLD2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.9411420	-.048407	.0677356
Stddev	.0113894	.000427	.0021336
%RSD	1.210168	.8824433	3.149867
#1	.9281734	-.048279	.0698036
#2	.9495184	-.048883	.0655420
#3	.9457341	-.048058	.0678612

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2111.836	21558.24	2084.683	1588.679	1962.138
Stddev	6.850	65.72	6.150	6.507	3.695
%RSD	.3243785	.3048638	.2950271	.4095652	.1883337
#1	2116.228	21623.08	2086.431	1590.152	1965.454
#2	2115.338	21559.96	2077.848	1594.323	1962.805
#3	2103.943	21491.67	2089.771	1581.562	1958.154

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5062-11DLX2 Acquired: 01/04/2025 0:55:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL25 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0352921	.0146263	.2527614	-.001731	.0141638	28.63753	.4289266
Stddev	.0029582	.0009901	.0052557	.002452	.0038254	.19221	.0020677
%RSD	8.381999	6.769356	2.079308	141.6946	27.00837	.6711794	.4820654
#1	.0318887	.0138940	.2482875	-.003369	.0180340	28.50563	.4304937
#2	.0372455	.0142321	.2585495	-.002913	.0140727	28.54890	.4265831
#3	.0367422	.0157528	.2514473	.001089	.0103848	28.85807	.4297030

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024608	.0019150	441.1786	.0498327	.0727193	.0901898	75.00632
Stddev	.0000445	.0001458	1.9488	.0006673	.0004139	.0062689	.21706
%RSD	1.809886	7.614465	.4417286	1.339155	.5691648	6.950842	.2893878
#1	.0024126	.0018346	439.8190	.0495409	.0729630	.0974275	75.01521
#2	.0024695	.0020833	440.3055	.0505962	.0722414	.0864638	74.78495
#3	.0025004	.0018271	443.4113	.0493609	.0729535	.0866782	75.21880

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.505566	63.92321	.0679930	-.005045	.5548373	.0563649	.2730597
Stddev	.020082	.34298	.0008182	.001442	.0051372	.0096811	.0021607
%RSD	.3647555	.5365507	1.203387	28.58911	.9258917	17.17569	.7912861
#1	5.488469	63.63203	.0680982	-.003736	.5589591	.0452123	.2743946
#2	5.500549	63.83632	.0687535	-.004806	.5564708	.0612802	.2742178
#3	5.527681	64.30128	.0671273	-.006591	.5490820	.0626023	.2705669

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.695113	2.805272	-.126301	.0078716	.8041329	6.540496	.0183354
Stddev	.164141	.007930	.000454	.0009645	.0011579	.056040	.0022848
%RSD	3.495999	.2826854	.3597535	12.25337	.1439959	.8568190	12.46137
#1	4.510067	2.808869	-.125849	.0067681	.8027971	6.525402	.0172427
#2	4.823144	2.810766	-.126758	.0082922	.8048517	6.493549	.0168021
#3	4.752127	2.796181	-.126297	.0085543	.8047498	6.602538	.0209614

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5062-11DLX2 Acquired: 01/04/2025 0:55:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL25 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3838081	.2862307	.0458966
Stddev	.0031457	.0013154	.0016776
%RSD	.8196092	.4595570	3.655260
#1	.3808978	.2852167	.0451634
#2	.3833811	.2857583	.0478160
#3	.3871456	.2877171	.0447104

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1879.419	19205.14	1902.142	1399.298	1805.575
Stddev	5.919	94.48	16.612	5.667	4.503
%RSD	.3149115	.4919632	.8733228	.4049712	.2493835
#1	1885.399	19290.59	1910.414	1402.249	1810.406
#2	1873.564	19103.67	1912.993	1392.765	1801.495
#3	1879.296	19221.17	1883.018	1402.880	1804.824

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5081-02DLX2 Acquired: 01/04/2025 0:58:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLG1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0297707	.0262555	.4679859	-.015749	.0027892	16.23870	.3953423
Stddev	.0032200	.0009564	.0009628	.013106	.0036659	.17292	.0031943
%RSD	10.81617	3.642588	.2057255	83.21780	131.4305	1.064888	.8079899
#1	.0309248	.0252555	.4688611	-.012037	.0058586	16.43740	.3990182
#2	.0261326	.0271613	.4669546	-.004899	-.001270	16.12230	.3932406
#3	.0322546	.0263497	.4681420	-.030310	.003779	16.15640	.3937680

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017248	.0040212	620.0321	.0688524	.0626235	.1227607	57.13160
Stddev	.0000557	.0002454	1.6713	.0003054	.0006281	.0082641	.41475
%RSD	3.230706	6.102989	.2695554	.4434900	1.003021	6.731891	.7259633
#1	.0016605	.0041186	621.9598	.0689903	.0619412	.1143439	57.55747
#2	.0017591	.0037420	619.1478	.0685024	.0627516	.1308631	56.72894
#3	.0017547	.0042028	618.9887	.0690645	.0631778	.1230751	57.10838

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.639496	272.9196	.0576988	-.003238	.8318253	.0422031	.6083159
Stddev	.022200	2.1077	.0015259	.001457	.0137139	.0065009	.0020237
%RSD	.6099750	.7722894	2.644633	45.00928	1.648648	15.40383	.3326655
#1	3.664086	275.3224	.0591171	-.003364	.8277449	.0449863	.6064179
#2	3.620928	272.0535	.0578949	-.001722	.8471163	.0347740	.6104454
#3	3.633475	271.3829	.0560842	-.004628	.8206148	.0468491	.6080845

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.637016	3.937057	-.081332	.0086681	9.275088	4.166080	.0442049
Stddev	.138290	.002204	.001759	.0007956	.023335	.046977	.0010048
%RSD	3.802294	.0559927	2.163183	9.178565	.2515886	1.127595	2.273084
#1	3.683958	3.939571	-.082588	.0078793	9.300904	4.197825	.0447325
#2	3.481365	3.935455	-.082087	.0086546	9.255495	4.188298	.0430462
#3	3.745725	3.936146	-.079321	.0094703	9.268864	4.112115	.0448361

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5081-02DLX2 Acquired: 01/04/2025 0:58:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLG1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2178657	.2801627	.0333056
Stddev	.0015664	.0020908	.0049232
%RSD	.7189708	.7462783	14.78182
#1	.2168850	.2825701	.0288863
#2	.2170400	.2788018	.0324183
#3	.2196722	.2791162	.0386120

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1742.690	18070.38	1783.021	1303.575	1684.755
Stddev	2.763	92.48	11.707	5.762	2.108
%RSD	.1585300	.5117950	.6565582	.4420402	.1251336
#1	1745.711	18127.99	1773.809	1309.325	1684.564
#2	1742.068	18119.44	1779.060	1303.600	1682.748
#3	1740.291	17963.70	1796.195	1297.800	1686.952

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCV108 Acquired: 01/04/2025 1:02:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV108 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.966557	4.886065	24.81913	4.887491	4.914105	405.2682
Stddev	.006942	.008555	.05348	.008044	.004252	1.5795
%RSD	.1397753	.1750997	.2154615	.1645769	.0865265	.3897317
#1	4.962171	4.878834	24.77296	4.895896	4.909878	403.4617
#2	4.962939	4.883851	24.80669	4.879865	4.918381	405.9542
#3	4.974560	4.895510	24.87772	4.886712	4.914058	406.3886

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.12288	.5153567	2.494779	406.1696	15.54464	2.526235
Stddev	.00456	.0025924	.003902	.6646	.02728	.006135
%RSD	.0450848	.5030331	.1563930	.1636279	.1754787	.2428613
#1	10.11933	.5127294	2.490550	405.4720	15.51342	2.521219
#2	10.12803	.5154279	2.495547	406.2414	15.55668	2.524411
#3	10.12128	.5179127	2.498239	406.7954	15.56383	2.533076

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.31178	410.3266	15.23492	410.1007	2.515909	1.247391
Stddev	.02375	1.9315	.07286	2.5462	.001131	.005254
%RSD	.1551220	.4707267	.4782288	.6208603	.0449573	.4211657
#1	15.28468	408.1007	15.15127	407.2758	2.514963	1.241325
#2	15.32897	411.3173	15.28450	412.2187	2.515601	1.250374
#3	15.32170	411.5617	15.26899	410.8076	2.517162	1.250474

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	422.3110	2.545488	14.84106	151.9199	5.017750	F 4.490792
Stddev	2.9363	.018546	.05937	.5004	.014288	.035514
%RSD	.6953013	.7285654	.4000275	.3293870	.2847392	.7908070
#1	421.4208	2.526392	14.82321	151.4963	5.002712	4.456384
#2	419.9227	2.563429	14.79266	151.7912	5.019394	4.488676
#3	425.5894	2.546644	14.90730	152.4720	5.031145	4.527316

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCV108 Acquired: 01/04/2025 1:02:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV108 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.900574	4.979379	5.041382	5.033304	5.057074	4.820528
Stddev	.007827	.012776	.032013	.006408	.020870	.016416
%RSD	.1597058	.2565829	.6349995	.1273029	.4126874	.3405369
#1	4.902102	4.965634	5.016763	5.026040	5.038187	4.801575
#2	4.892096	4.981610	5.029812	5.035716	5.079479	4.829787
#3	4.907524	4.990893	5.077572	5.038154	5.053556	4.830223

Elem	Li6707
Units	ppm
Avg	4.832068
Stddev	.007762
%RSD	.1606433
#1	4.823121
#2	4.837002
#3	4.836082

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1520.093	16473.09	1680.863	1122.725	1631.015
Stddev	2.107	71.23	4.433	5.965	1.032
%RSD	.1386106	.4324137	.2637204	.5312964	.0632440
#1	1518.339	16391.44	1679.328	1116.604	1631.710
#2	1519.511	16505.24	1685.860	1128.520	1629.830
#3	1522.431	16522.57	1677.402	1123.053	1631.505

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCB108 Acquired: 01/04/2025 1:06:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB108 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001607	.0001698	.0012074	.0058089	-.002512	.0154154	-.003090
Stddev	.002379	.0036717	.0030525	.0031650	.001597	.0134732	.001758
%RSD	148.0478	2162.600	252.8180	54.48441	63.57898	87.40086	56.87856
#1	-.000655	.0038824	.0005945	.0072255	-.002788	.0303163	-.001764
#2	.000149	-.003460	.0045198	.0021831	-.003953	.0118375	-.005084
#3	-.004315	.000087	-.001492	.0080181	-.000795	.0040922	-.002422

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000096	.0000360	.0004290	-.000243	-.000182	-.001725	.0210711
Stddev	.000189	.0000675	.0283952	.000140	.000236	.005470	.0343189
%RSD	197.5667	187.5634	6618.521	57.66563	129.9915	317.0928	162.8720
#1	-.000299	.0000380	-.032032	-.000306	-.000327	-.003230	.0498530
#2	.000075	-.000032	.012660	-.000082	.000091	.004340	.0302699
#3	-.000063	.000103	.020660	-.000341	-.000310	-.006284	-.016910

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034110	-.178617	-.000368	.0008359	.1945921	-.001814	.0001618
Stddev	.0016488	.036737	.000153	.0011199	.0184551	.003079	.0003645
%RSD	48.33789	20.56725	41.69706	133.9792	9.483972	169.7779	225.2794
#1	.0015072	-.138171	-.000217	.0021161	.2123942	.001715	.0004040
#2	.0043569	-.209917	-.000524	.0003539	.1755469	-.003199	-.000257
#3	.0043691	-.187763	-.000363	.0000376	.1958351	-.003957	.000339

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3752780	-.000516	.0059449	.0003351	-.014323	-.002175	-.000165
Stddev	.1853663	.001802	.0003746	.0003391	.002326	.001102	.001481
%RSD	49.39439	349.5835	6.301071	101.1844	16.24276	50.64915	899.8311
#1	.5559471	.001015	.0055250	.0006244	-.012224	-.002760	.000274
#2	.1855469	-.002502	.0062448	.0004189	-.013920	-.002861	-.001815
#3	.3843400	-.000060	.0060648	-.000038	-.016825	-.000904	.001048

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCB108 Acquired: 01/04/2025 1:06:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB108 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.005300	-.000494	.0006433
Stddev	.003755	.000298	.0044720
%RSD	70.84138	60.28158	695.1811
#1	-.008158	-.000156	-.003707
#2	-.006695	-.000716	.000409
#3	-.001048	-.000609	.005228

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1843.726	18812.21	1814.531	1388.105	2043.794
Stddev	4.280	46.29	10.259	4.983	2.515
%RSD	.2321545	.2460871	.5653541	.3589529	.1230623
#1	1848.410	18865.08	1820.028	1393.668	2045.940
#2	1842.751	18778.95	1820.870	1386.595	2044.414
#3	1840.018	18792.59	1802.696	1384.052	2041.026

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Prep Standard - Chemical Standard Summary

Order ID : P5060

Test : Metals CLP Full

Prepbatch ID : PB165495,

Sequence ID/Qc Batch ID: LB133990,LB134161,

Standard ID :
MP83498,MP83500,MP83501,MP83502,MP83503,MP83504,MP83505,MP83506,MP83507,MP83508,MP83509,MP835
10,MP83511,MP83512,MP83513,MP83514,MP83619,MP83726,MP83745,

Chemical ID :
M5130,M5218,M5223,M5289,M5295,M5296,M5390,M5393,M5429,M5473,M5496,M5497,M5498,M5513,M5515,M5519
,M5658,M5697,M5698,M5768,M5769,M5798,M5799,M5800,M5801,M5802,M5806,M5815,M5816,M5817,M5818,M581
9,M5820,M5875,M5959,M5960,M5962,M5970,M5976,M5978,M5982,M5985,M5990,M5999,M6021,M6023,M6025,M60
28,M6030,M6121,M6125,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	MP83498	12/09/2024	01/31/2025	Janvi Patel	None	None	Sarabjit Jaswal 12/09/2024

FROM 1250.00000ml of M6126 + 1250.00000ml of W3112 = Final Quantity: 2500.000 ml

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

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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	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

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

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Metals STANDARD PREPARATION LOG

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

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

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1008	ICPAES ISM01.2(S2)	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

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

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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	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

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

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
904	ICP AES ICSA SOLN	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

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

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1119	ICPAES ISM01.2(CCV)	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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
921	ICPAES SPIKE SOL#6	MP83512	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 2.50000ml of M5962 + 50.00000ml of M5990 + 50.00000ml of M5999 + 147.50000ml of MP83500 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
919	ICP AES INTERNAL STD	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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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1122	ICPMS CALIB BLANK(S0/ICB/CCB)	MP83619	12/13/2024	01/07/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 12/17/2024

FROM 25.00000ml of M6121 + 4925.00000ml of W3112 + 50.00000ml of M6126 = Final Quantity: 5000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3559	SE 100PPM	MP83726	12/18/2024	01/06/2025	Sarabjit Jaswal	None	None	Mohan Bera 12/20/2024

FROM 1.00000ml of M5962 + 9.00000ml of MP83500 = Final Quantity: 10.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1905	TL 10PPM	MP83745	12/23/2024	01/07/2025	Sarabjit Jaswal	None	None	Mohan Bera 12/23/2024

FROM 0.10000ml of M6023 + 9.90000ml of MP83619 = Final Quantity: 10.000 ml

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART A / ICSA (ICP) STOCK SOLN	ICSA-1211	01/31/2025	05/20/2024 /bin	04/20/2021 / bin	M5130

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CHEM-QC-4 / CHEM-QC-4, Second Source, 1000 ug/ml, B, Mo, Si, Sn, Ti	S2-MEB711674	11/02/2026	07/01/2022 / bin	09/10/2021 / bin	M5218

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART B / ICSAB (ICP) STOCK SOLN	ICSB-0710	01/31/2025	05/20/2024 /bin	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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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57056 / Ba, 1000 PPM, 125 ml	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 #
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.	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

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Ca, 10000 PPM, 500 ml	031523	03/15/2026	08/15/2023 / jaswal	03/17/2023 / bin	M5498

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57182 / Pb, 10000 PPM, 125 ml	061522	06/15/2025	03/19/2023 / bin	03/17/2023 / bin	M5513

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58126 / Fe, 10000 PPM, 500 ml	092122	09/21/2025	08/01/2024 / Jaswal	03/17/2023 / bin	M5515

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57119 / Potassium (K) 10,000PPM	120822	12/08/2025	01/08/2024 / bin	03/17/2023 / bin	M5519

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58024 / Chromium, Cr, 500 ml, 1000 PPM	060523	06/05/2026	08/28/2023 / jaswal	08/25/2023 / jaswal	M5658

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

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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.	58112 / Mg, 10000 PPM, 500 ml	091823	09/18/2026	01/08/2024 / bin	01/03/2024 / bin	M5768

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

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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.	57033 / As, 1000 PPM, 125 ml	111323	11/13/2026	02/09/2024 / bin	02/09/2024 / bin	M5801

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57051 / Sb, 1000 PPM, 125 ml	120523	12/05/2026	08/07/2024 / jaswal	01/03/2024 / jaswal	M5802

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58111 / Na, 10000 PPM, 500 ml	122223	12/22/2026	08/01/2024 / Jaswal	01/03/2024 / jaswal	M5806

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57115 / P, 10000 PPM, 125 ml	041723	04/17/2026	05/21/2024 / Jaswal	02/09/2024 / jaswal	M5815

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57016 / S, 1000 PPM, 125 ml	122923	12/29/2026	05/20/2024 / Jaswal	02/09/2024 / jaswal	M5816

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

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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.	57014 / Si, 1000 PPM, 125 ml	122023	12/20/2026	03/06/2024 / jaswal	02/09/2024 / jaswal	M5818

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58030 / Zinc, Zn, 500 ml, 1000 PPM	111623	11/16/2026	03/20/2024 / jaswal	02/09/2024 / jaswal	M5819

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57015 / P, 1000 PPM, 125 ml	091123	09/11/2026	05/01/2024 / jaswal	02/09/2024 / jaswal	M5820

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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

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Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	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

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	CGIN10-5 / INDIUM 1 x 500 ml	U2-IN729349	02/21/2028	10/08/2024 / Jaswal	06/14/2024 / Jaswal	M5985

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-SPK-5 / CLP Spike Standard 5	V2-MEB742037	03/12/2029	10/04/2024 / Jaswal	02/22/2024 / Jaswal	M5990

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

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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.	57047 / Ag, 1000 PPM, 125 ml	122823	12/28/2026	08/05/2024 / kareem	08/05/2024 / Jaswal	M6030

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	0000275677	05/13/2025	11/13/2024 / Eman	10/13/2024 / Eman	M6121

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	1403 / Hydrogen Peroxide, 30% 1 gal	820803	05/25/2025	11/26/2024 / Eman	11/22/2024 / Eman	M6125

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	06/03/2025	12/03/2024 / Janvi	11/12/2024 / Janvi	M6126

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

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R: 02/22/24 M5986 M5987, M5988, M5989-M5990

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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-SPK-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

M6028

R 8/15/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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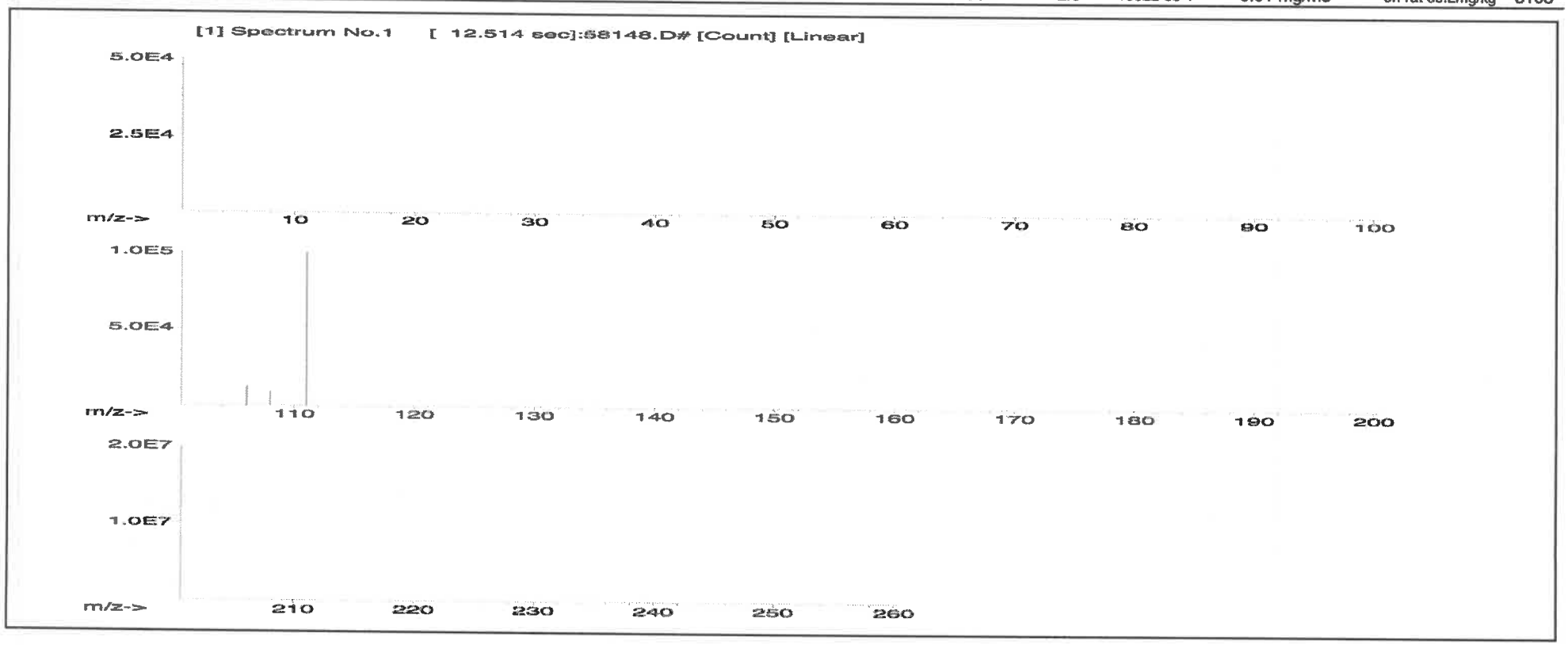
CERTIFIED WEIGHT REPORT:

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
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



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

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CHEM-CLP-4
Lot Number:	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



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:	CLPP-CAL-1
Lot Number:	T2-MEB714417
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	5 000 µg/mL ea: Calcium, Potassium, Magnesium, Sodium, 2 000 µg/mL ea: Aluminum, Barium, 1 000 µg/mL ea: Iron, 500 µg/mL ea: Nickel, Vanadium, Zinc, Cobalt, Manganese, 250 µg/mL ea: Silver, Copper, 200 µg/mL ea: Chromium, 50 µg/mL ea: Beryllium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**2 000 ± 7 µg/mL**	**Barium, Ba**	**2 000 ± 9 µg/mL**
Beryllium, Be	**50.00 ± 0.26 µg/mL**	**Calcium, Ca**	**5 000 ± 22 µg/mL**
Chromium, Cr	**200.0 ± 1.0 µg/mL**	**Cobalt, Co**	**500.0 ± 2.4 µg/mL**
Copper, Cu	**250.0 ± 1.0 µg/mL**	**Iron, Fe**	**1 000 ± 4 µg/mL**
Magnesium, Mg	**5 000 ± 20 µg/mL**	**Manganese, Mn**	**500.0 ± 2.0 µg/mL**
Nickel, Ni	**500.0 ± 2.2 µg/mL**	**Potassium, K**	**5 000 ± 19 µg/mL**
Silver, Ag	**250.0 ± 1.1 µg/mL**	**Sodium, Na**	**5 000 ± 18 µg/mL**
Vanadium, V	**499.7 ± 2.2 µg/mL**	**Zinc, Zn**	**500.0 ± 2.2 µg/mL**

Density: 1.118 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cr	Calculated		See Sec. 4.2
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
V	IC Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 27, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 27, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

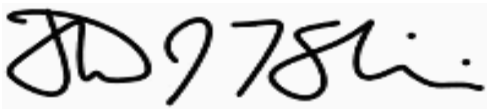
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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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.

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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:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 13, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 13, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

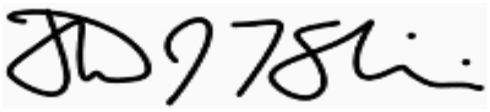
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 8/5/24 M6025

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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CERTIFIED WEIGHT REPORT:

Part Number: 57182
Lot Number: 110923
Description: Lead (Pb)

Expiration Date: 110926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

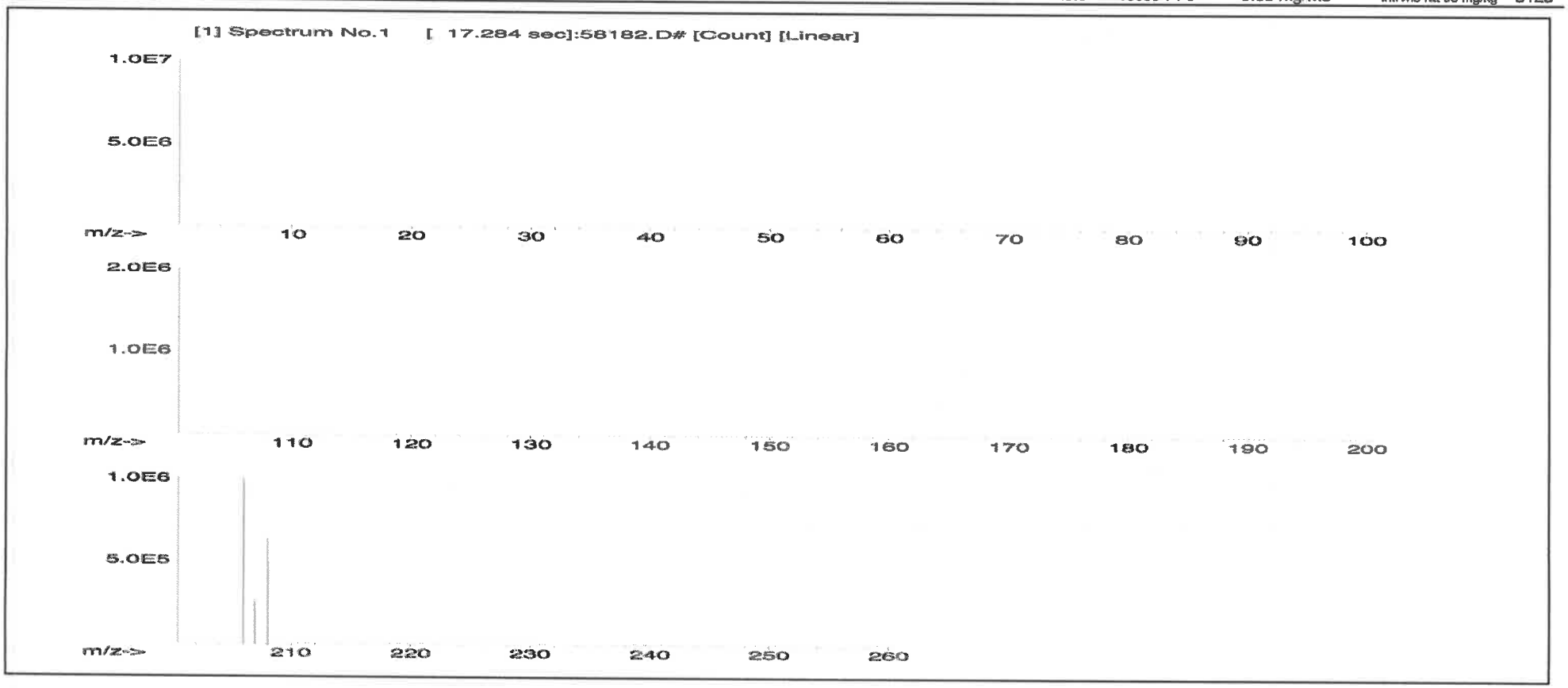
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Lawence Barry	110923
Reviewed By:	Pedro L. Rentas	110923

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lead(II) nitrate (Pb)	IN029	PBD122016A1	10000	99.999	0.10	62.5	32.0006	32.0040	**10001.1**	**20.0**	10099-74-8	0.05 mg/m3	intrvns-rat 93 mg/kg	3128



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix. **For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be,

Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for ICP-AES Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSA solution by ICP-AES.

ICSB-0710, Analytes, mixed with ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSAB solution by ICP-AES.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-AES ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-AES ICSA-1211, AND ICSA-1211 MIXED WITH ICSB-0710

Element	CRQL	Part A (µg/L)	Low Limit (µg/L)	High Limit (µg/L)	Part A +Part B (µg/L)	Low Limit (µg/L)	High Limit (µg/L)
Al	200	255000	216000	294000	247000	209000	285000
Sb	60	(0.0)	-60.0	60.0	618	525	711
As	10	(0.0)	-10.0	10.0	104	88.4	120
Ba	200	(6.0)	-194	206	(537)	337	737
Be	5.0	(0.0)	-5.0	5.0	495	420	570
Cd	5.0	(1.0)	-4.0	6.0	972	826	1120
Ca	5000	245000	208000	282000	235000	199000	271000
Cr	10	(52.0)	42.0	62.0	542	460	624
Co	50	(0.0)	-50.0	50.0	476	404	548
Cu	25	(2.0)	-23.0	27.0	511	434	588
Fe	100	101000	85600	116500	99300	84400	114500
Pb	10	(0.0)	-10.0	10.0	(49.0)	39.0	59.0
Mg	5000	255000	216000	294000	248000	210000	286000
Mn	15	(7.0)	-8.0	22.0	507	430	584
Ni	40	(2.0)	-38.0	42.0	954	810	1100
Se	35	(0.0)	-35.0	35.0	(46.0)	11.0	81.0
Ag	10	(0.0)	-10.0	10.0	201	170	232
Tl	25	(0.0)	-25.0	25.0	(108)	83.0	133
V	50	(0.0)	-50.0	50.0	491	417	565
Zn	60	(0.0)	-60.0	60.0	952	809	1095

ICSA M5126 M5127 M5128 M5129 M5130

ICSB M5219 M5220 M5221 M5222 M5223

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 1 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CHEM-QC-4
Lot Number:	S2-MEB711674
Matrix:	3% (v/v) HNO3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

Second Source: Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	**1 000 ± 7 µg/mL**	**Molybdenum, Mo**	**1 000 ± 5 µg/mL**
Silicon, Si	**1 000 ± 7 µg/mL**	**Tin, Sn**	**1 000 ± 5 µg/mL**
Titanium, Ti	**1 001 ± 6 µg/mL**		

Density: 1.032 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	110830
Mo	ICP Assay	3134	130418
Si	ICP Assay	3150	130912
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	3162a	130925

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 02, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 02, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director





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.

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)

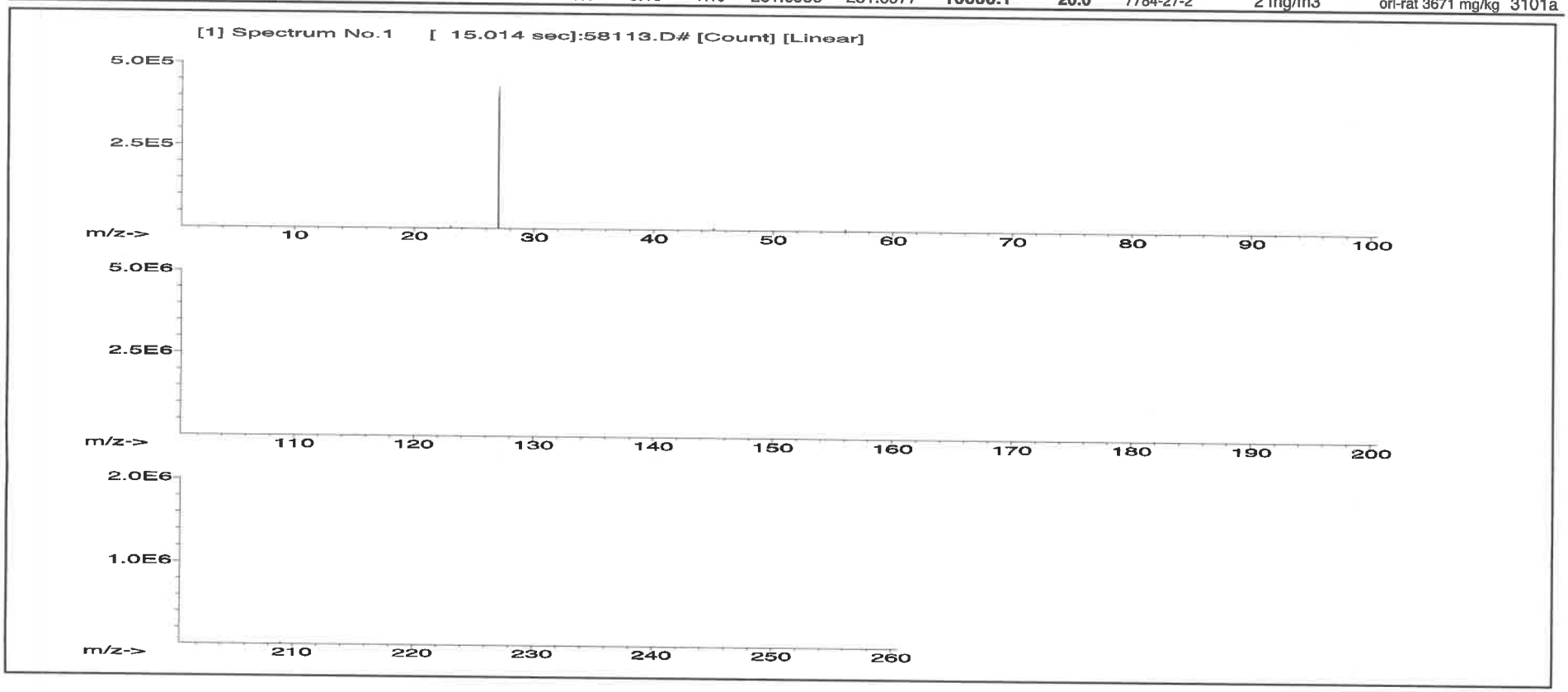
Expiration Date: 070625
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

	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



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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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

R: 09/08/22 (BH)

Certified Reference Material CRM

M5387 - M5389. M5390 CM5391. M5392

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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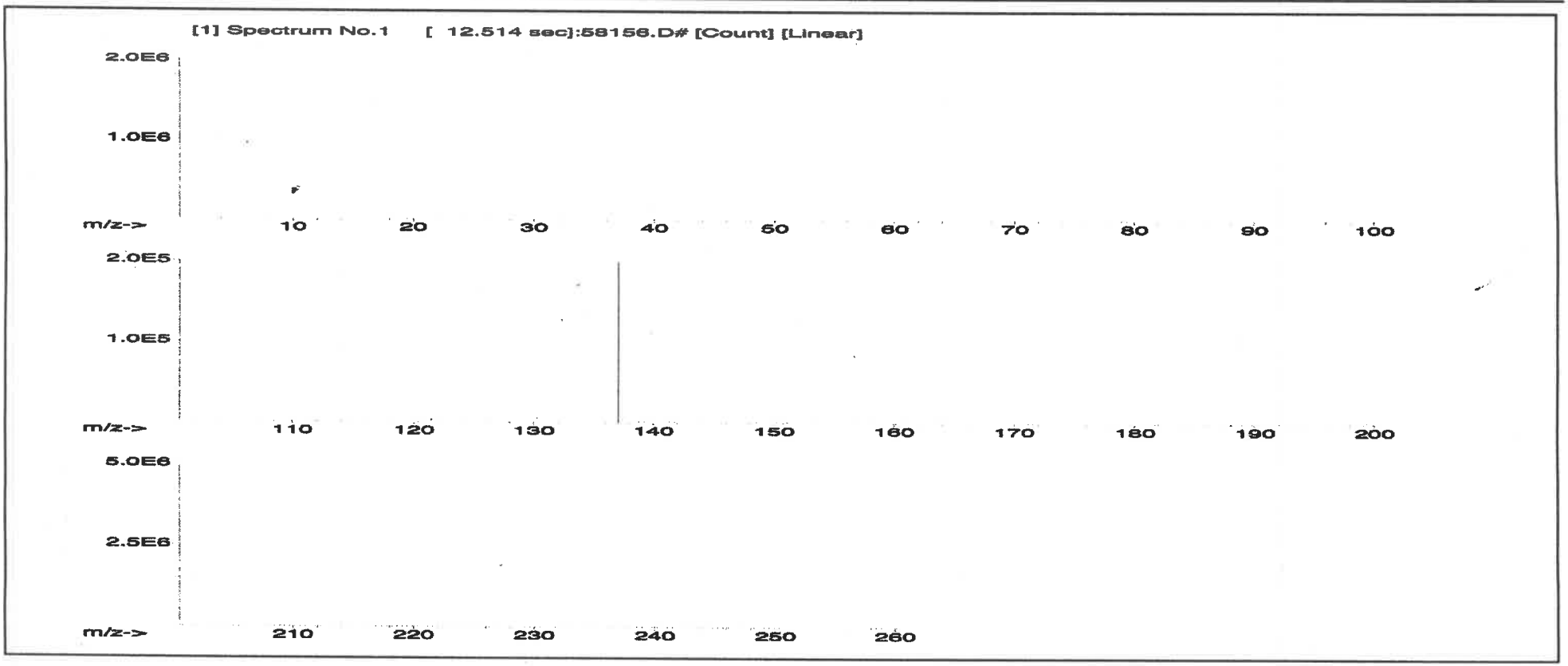
CERTIFIED WEIGHT REPORT:

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.
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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5429 R1 01/26/23 BH

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CERTIFIED WEIGHT REPORT:

Part Number: 57103
Lot Number: 070622
Description: Lithium (Li)

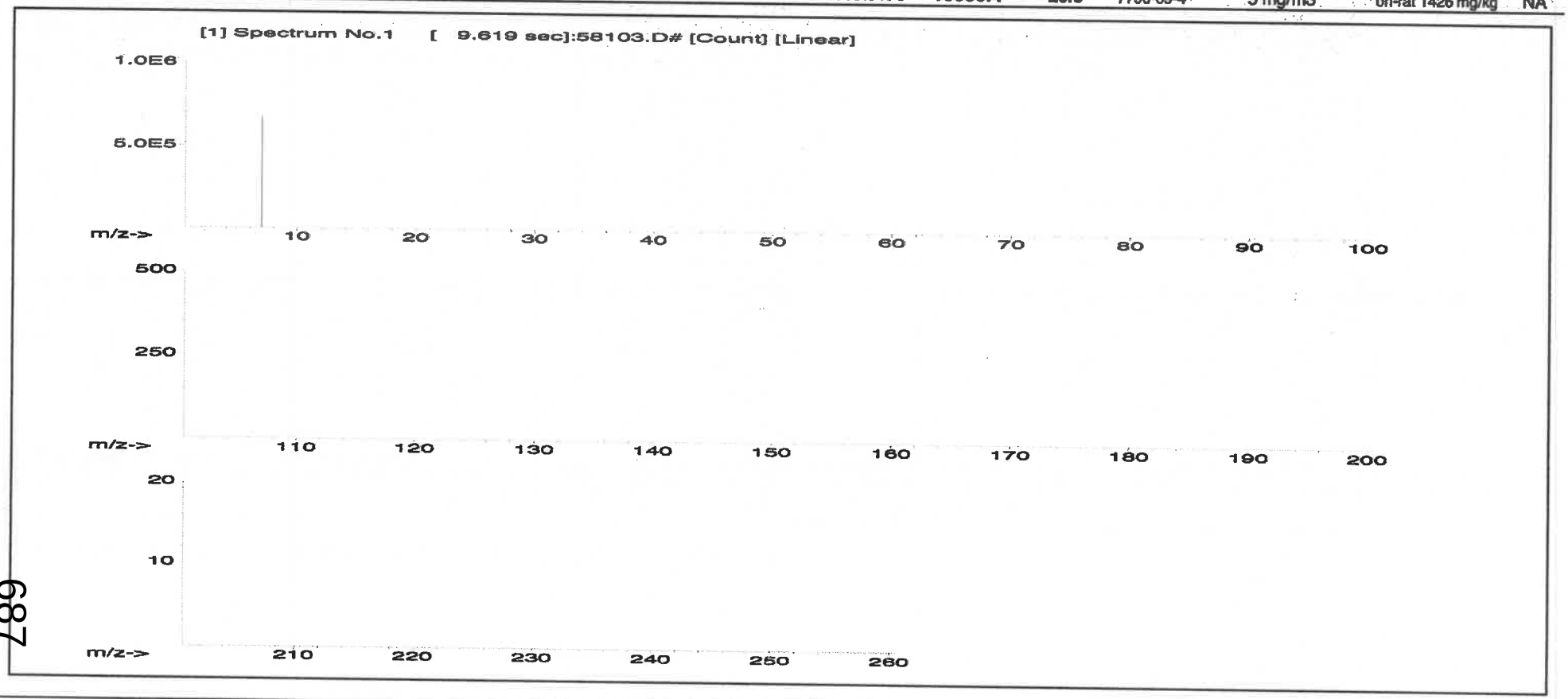
Expiration Date: 070625
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1000.12

	Lot #		
Solvent:	20510011	Nitric Acid	
2%	20.0 (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. 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



687

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	T	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* 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).

688

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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	

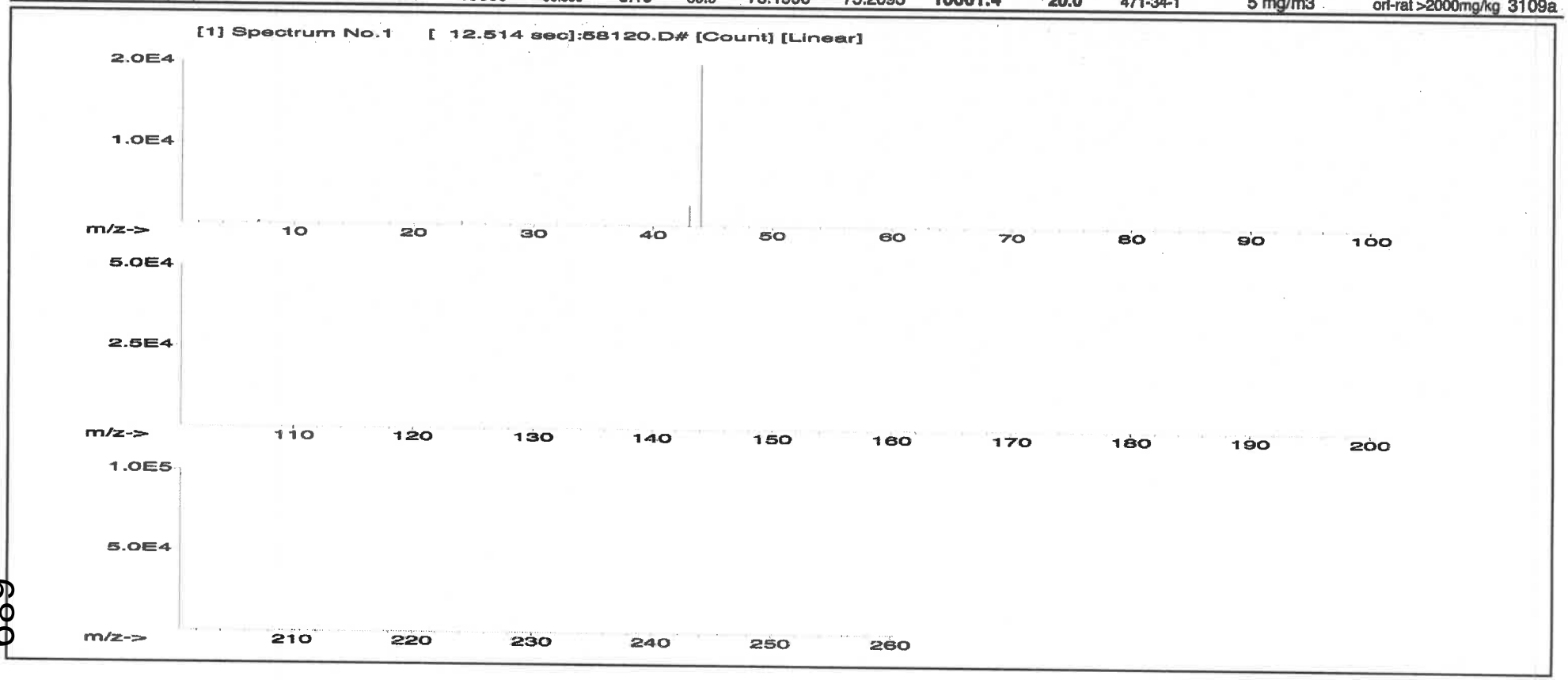
5E-05 Balance Uncertainty

Giovanni Esposito

Formulated By: Giovanni Esposito 031523

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



689

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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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 031523
Description: Calcium (Ca)

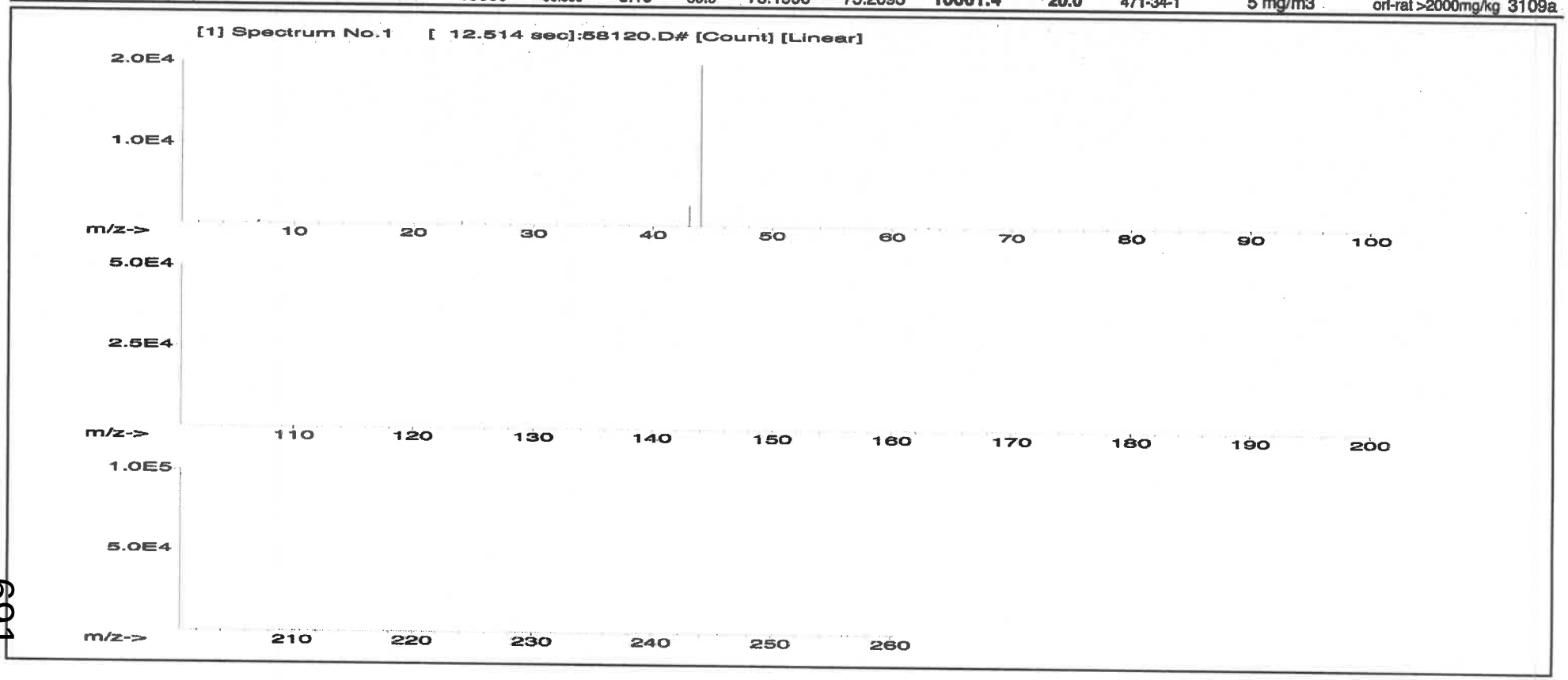
Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

	Lot #		
Solvent:	21110221	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Giovanni Esposito
Formulated By: Giovanni Esposito 031523

Pedro Rentas
Reviewed By: Pedro L. Rentas 031523

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Calcium carbonate (Ca)	IN014	CAD072022A1	10000	99.999	0.10	39.9	75.1990	75.2093	**10001.4**	**20.0**	471-34-1	5 mg/m3	orl-rat >2000mg/kg	3109a



691

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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* 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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M 5513 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

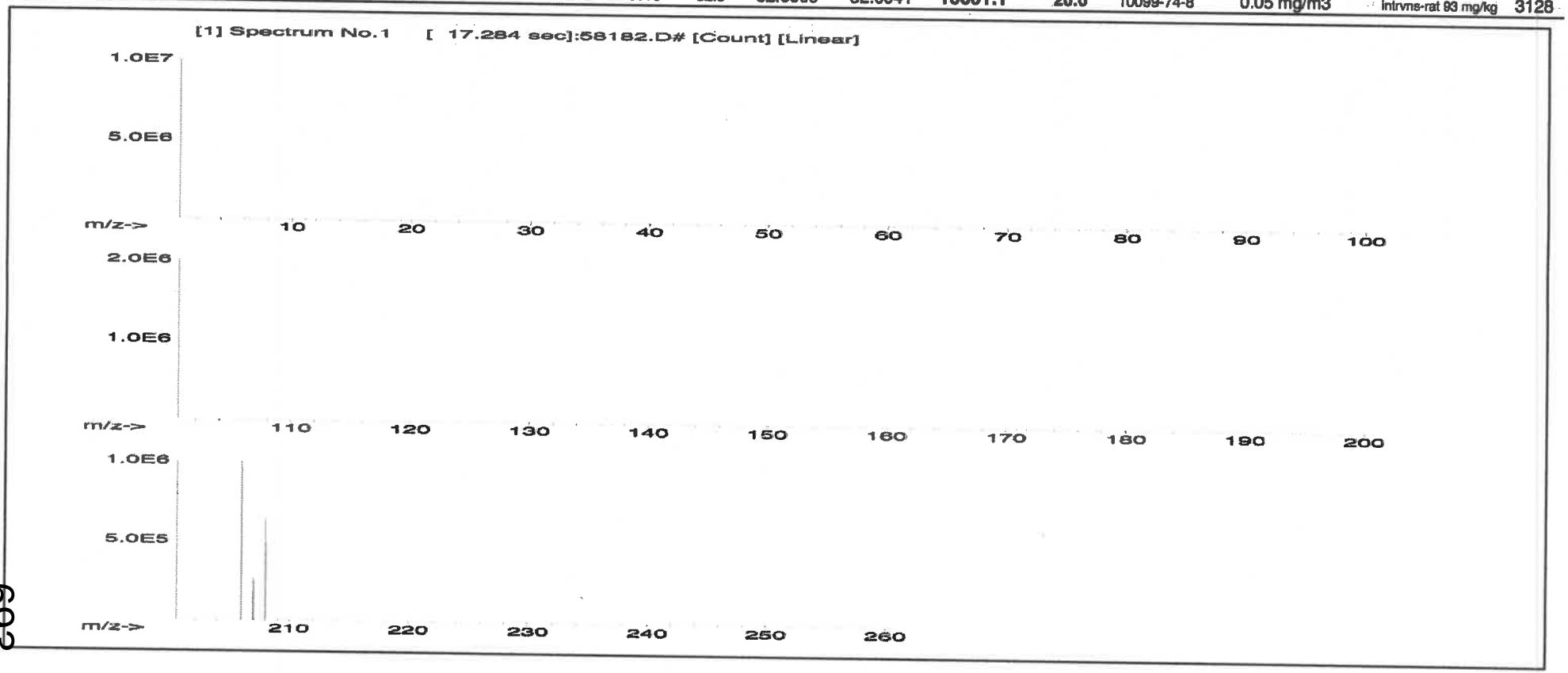
	Lot #		
Solvent:	20510011	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

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



693

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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995

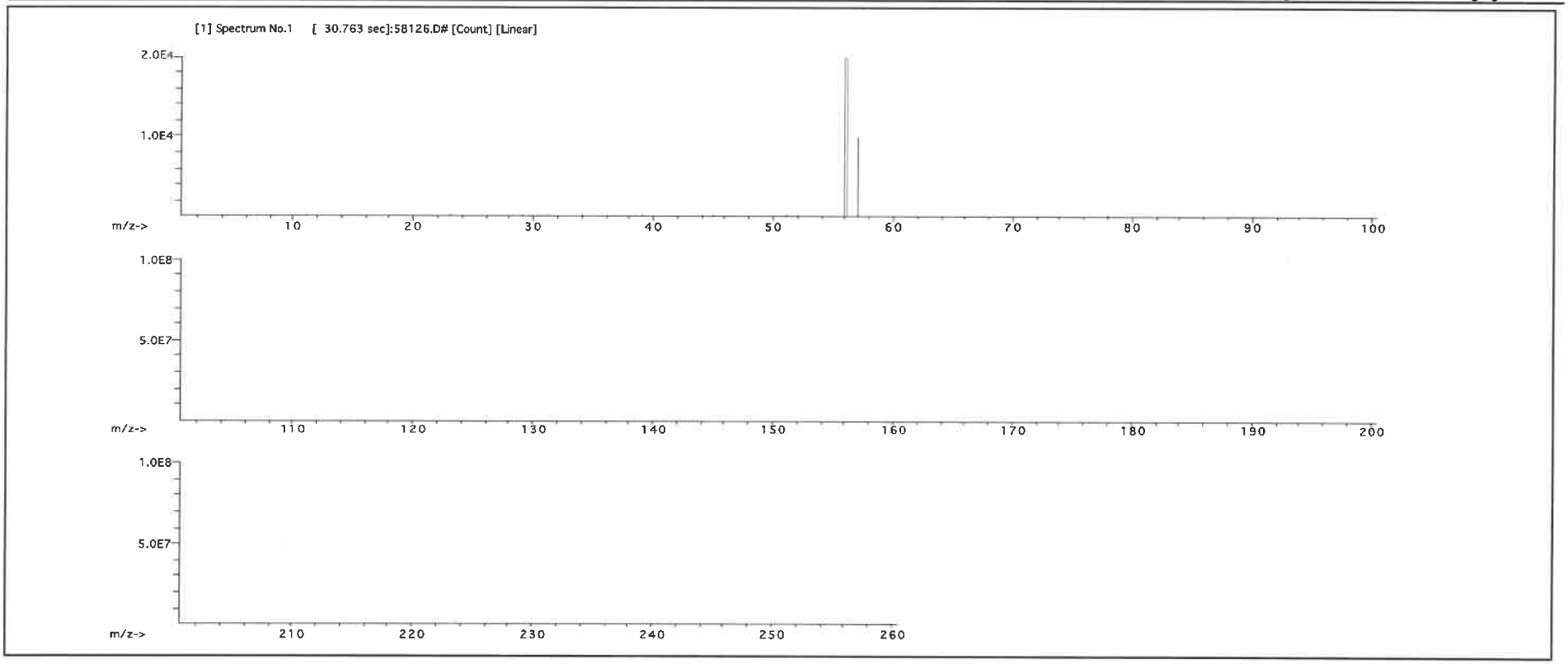
CERTIFIED WEIGHT REPORT:

Part Number:	**58126**		**Lot #**		
Lot Number:	**092122**		**Solvent:**	20510011	Nitric Acid
Description:	**Iron (Fe)**		7.0%	350.0 (mL)	Nitric Acid
Expiration Date:	092125				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	5000.1	0.12	Flask Uncertainty		

Giovanni Esposito

Formulated By:	Giovanni Esposito	092122
Reviewed By:	Pedro L. Rentas	092122

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Iron (Fe)	IN346	2224912-500	10000	99.995	0.10	100.0	50.0034	50.0111	**10001.5**	**20.0**	7439-89-6	5 mg/m3	orl-rat 7500mg/kg	3126a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.10	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.10	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.05	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.10	Ge	<0.10	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.05
B	<0.02	Cu	<0.10	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* 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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M5519. M5520 (BH) R:03/17/23

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697

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

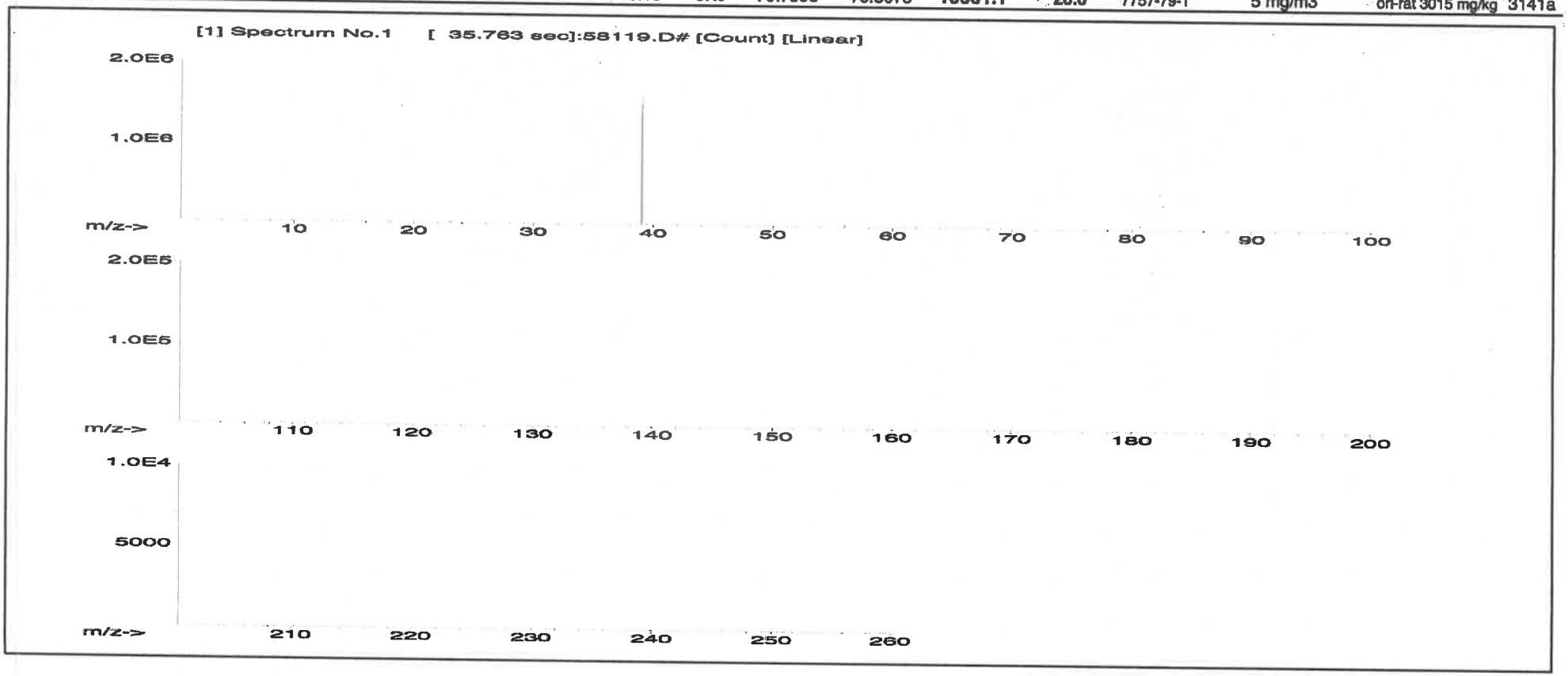
	Lot #		
Solvent:	20510011	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

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



868

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5658 R ! 8/25/23

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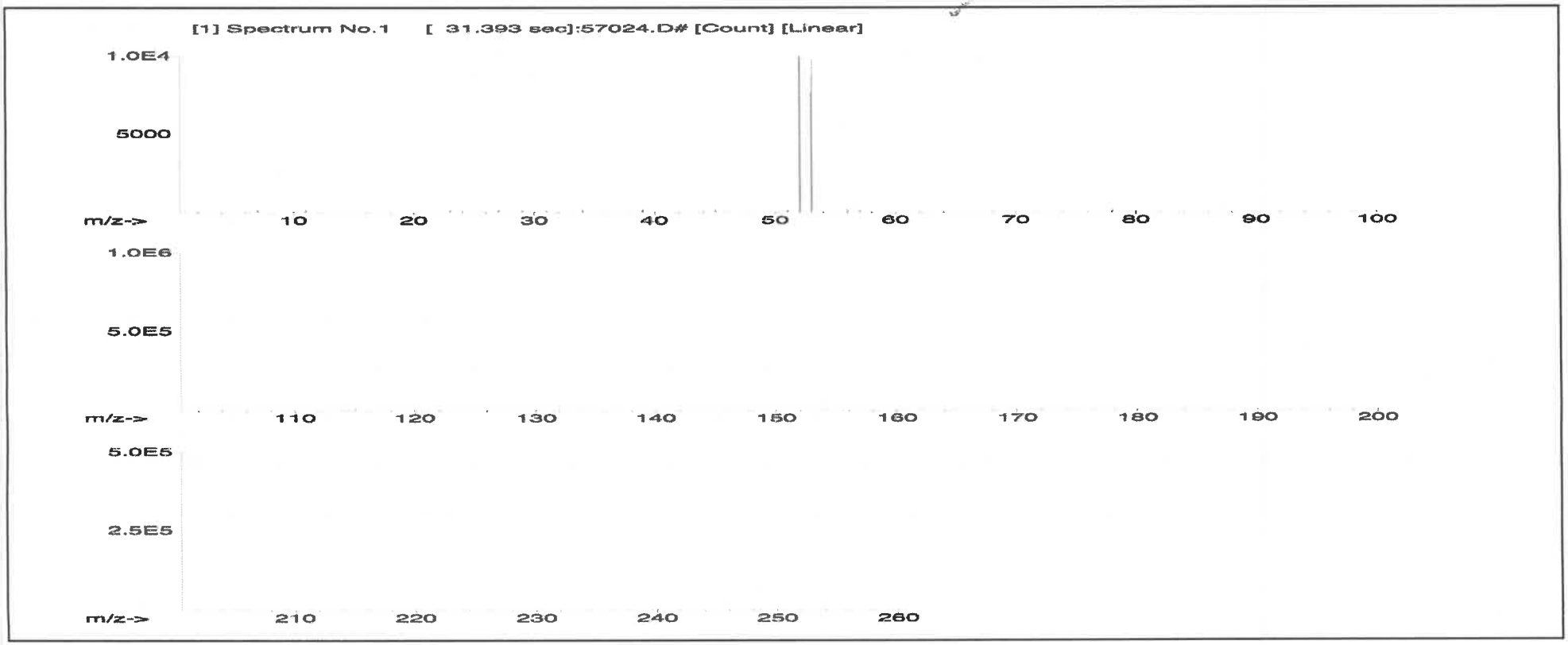
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58024**	21110221	Nitric Acid	
Lot Number:	**060523**			
Description:	**Chromium (Cr)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	060526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	060523
Reviewed By:	Pedro L. Rentas	060523

699

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



700

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	T	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
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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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M5697 R: 10/27/23

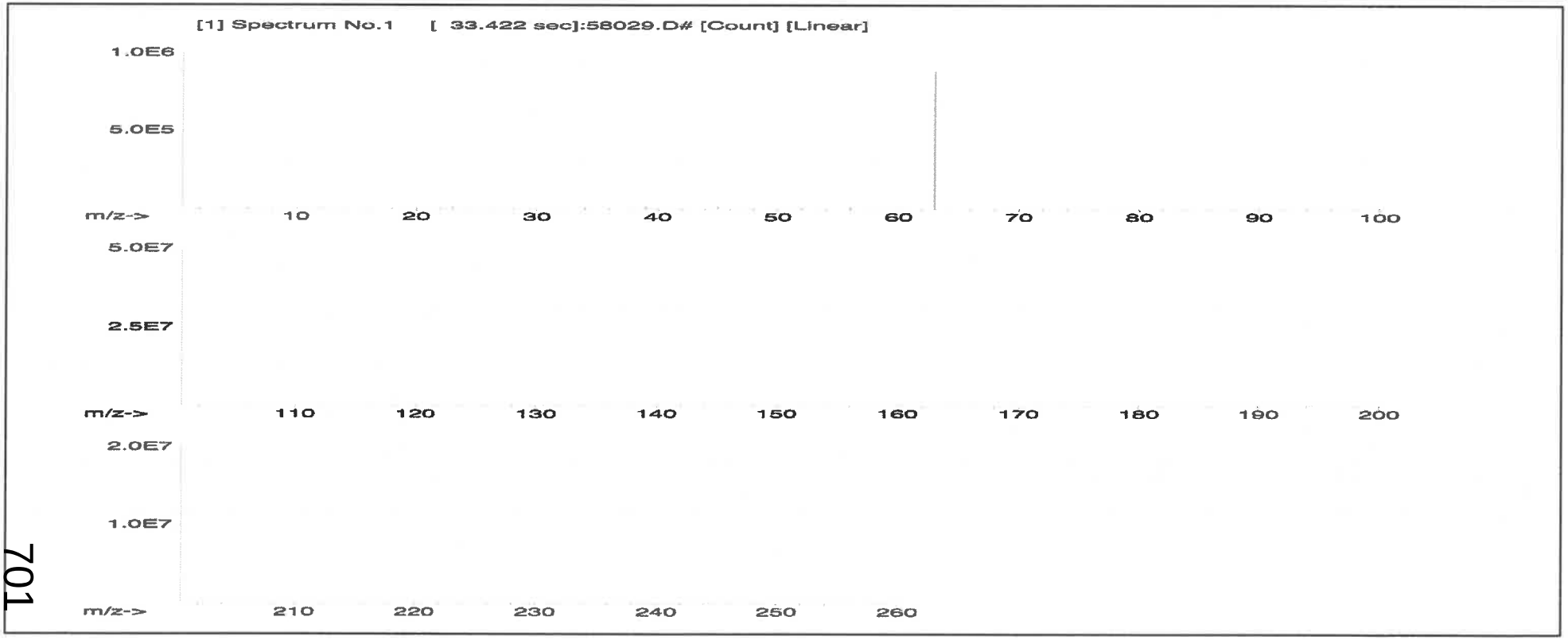
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CERTIFIED WEIGHT REPORT:

		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



701

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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* 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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M5648 R: 10/27/23

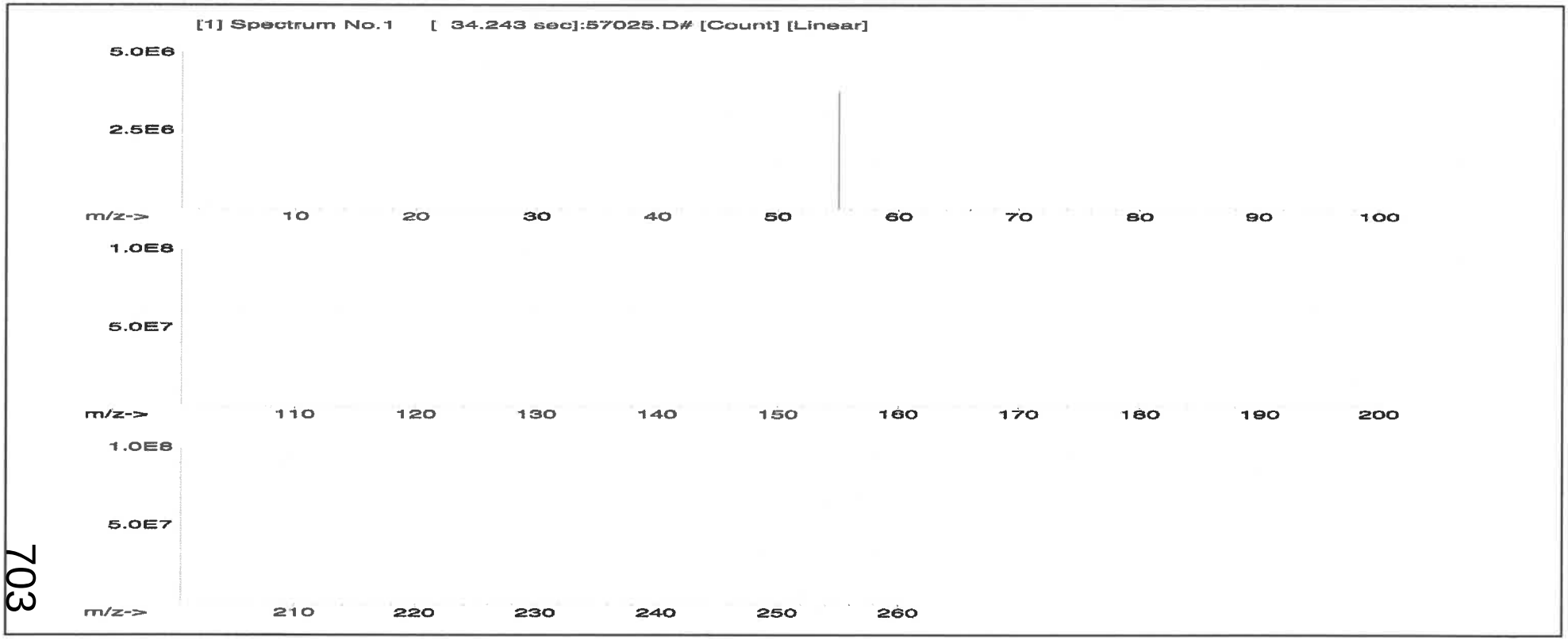
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CERTIFIED WEIGHT REPORT:

		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



703

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	T	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the balances that are calibrated with weights traceable to NIST (see above).
* 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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M5768 M5769 (BP) R:1/3/24

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705

CERTIFIED WEIGHT REPORT:

Part Number: 58112
Lot Number: 091823
Description: Magnesium (Mg)

Expiration Date: 091826
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

		Lot #	
Solvent:	24002546	Nitric Acid	
	2%	40.0 (mL)	Nitric Acid

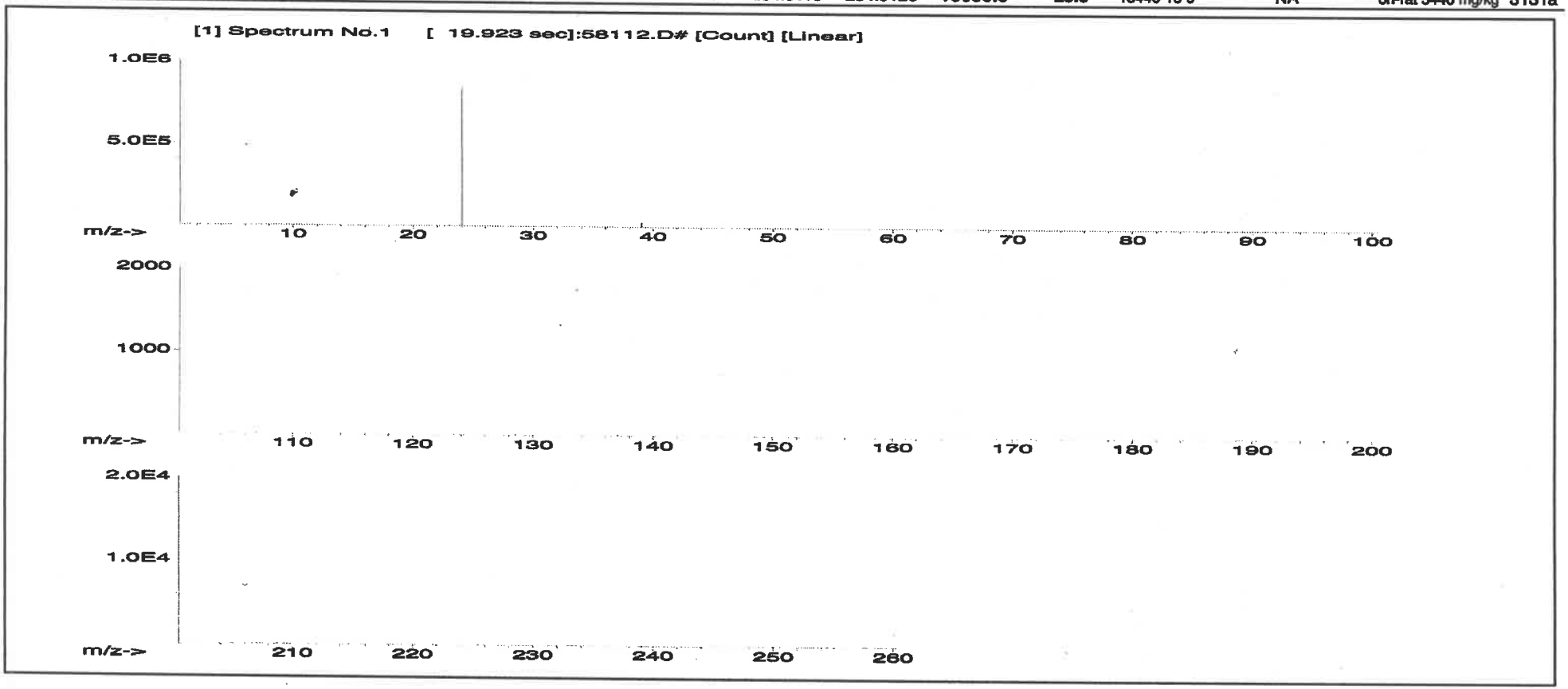
5E-05 Balance Uncertainty

M5768, M5769 (BP) R: 1/3/24

Formulated By: Lawrence Barry 091823

Reviewed By: Pedro L. Rentas 091823

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Magnesium nitrate hexahydrate (Mg)	IN030	MGD052023A1	10000	99.999	0.10	8.51	234.9118	234.9126	**10000.0**	**20.0**	13446-18-9	NA	ori-rat 5440 mg/kg	3131a



706

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:

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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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M5768 M5769 (BP) R:1/3/24

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707

CERTIFIED WEIGHT REPORT:

Part Number: 58112
Lot Number: 091823
Description: Magnesium (Mg)

Expiration Date: 091826
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

		Lot #	
Solvent:	24002546	Nitric Acid	
	2%	40.0 (mL)	Nitric Acid

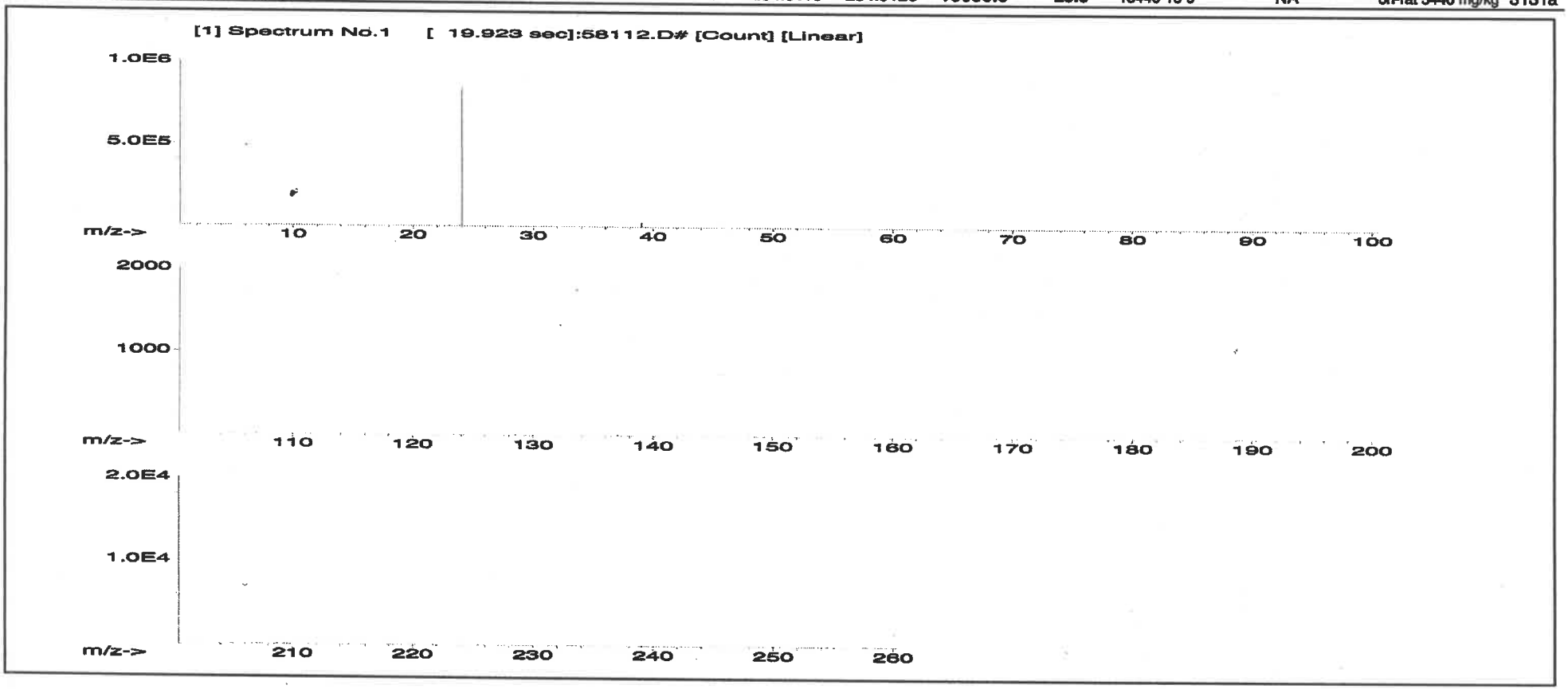
5E-05 Balance Uncertainty

M5768, M5769 (BP) R: 1/3/24

Formulated By: Lawrence Barry 091823

Reviewed By: Pedro L. Rentas 091823

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Magnesium nitrate hexahydrate (Mg)	IN030	MGD052023A1	10000	99.999	0.10	8.51	234.9118	234.9126	**10000.0**	**20.0**	13446-18-9	NA	ori-rat 5440 mg/kg	3131a



708

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:

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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
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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: 02/09/24 M5798

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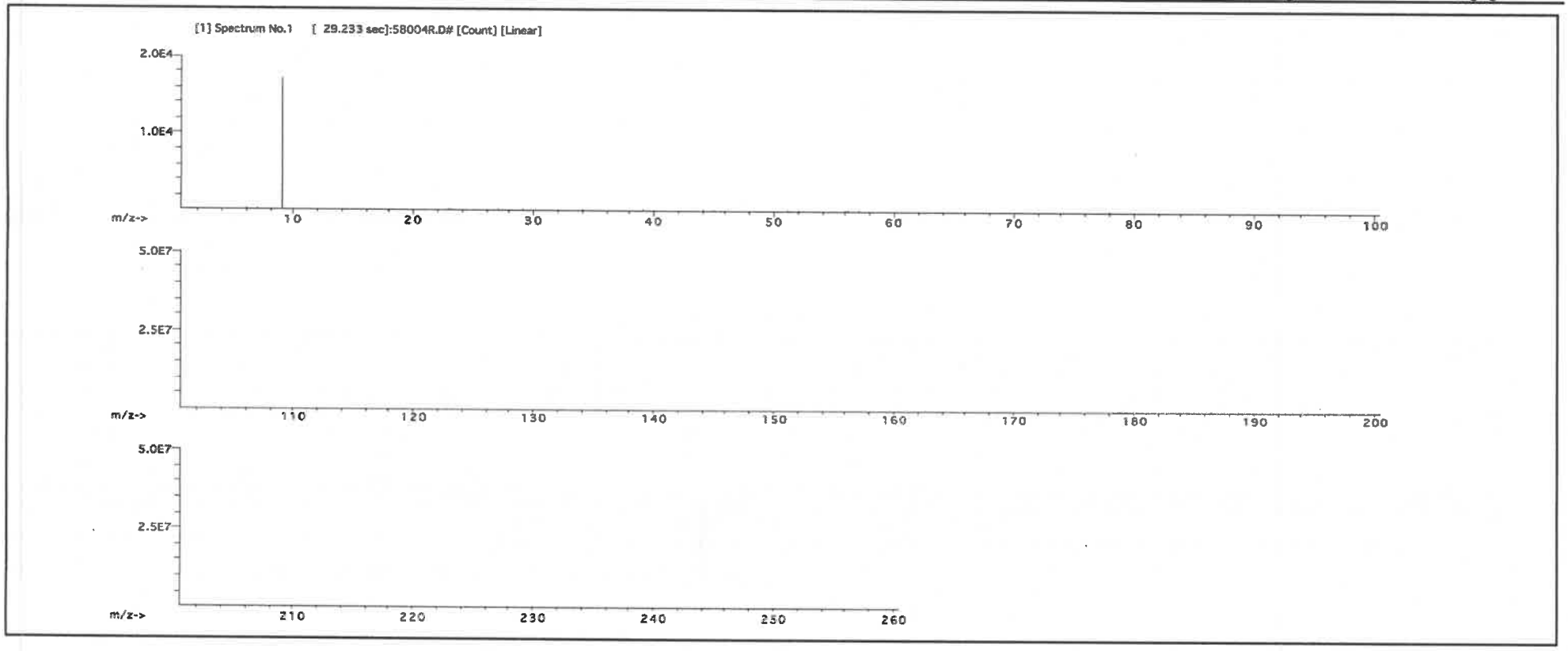
709

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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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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711

CERTIFIED WEIGHT REPORT:

Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

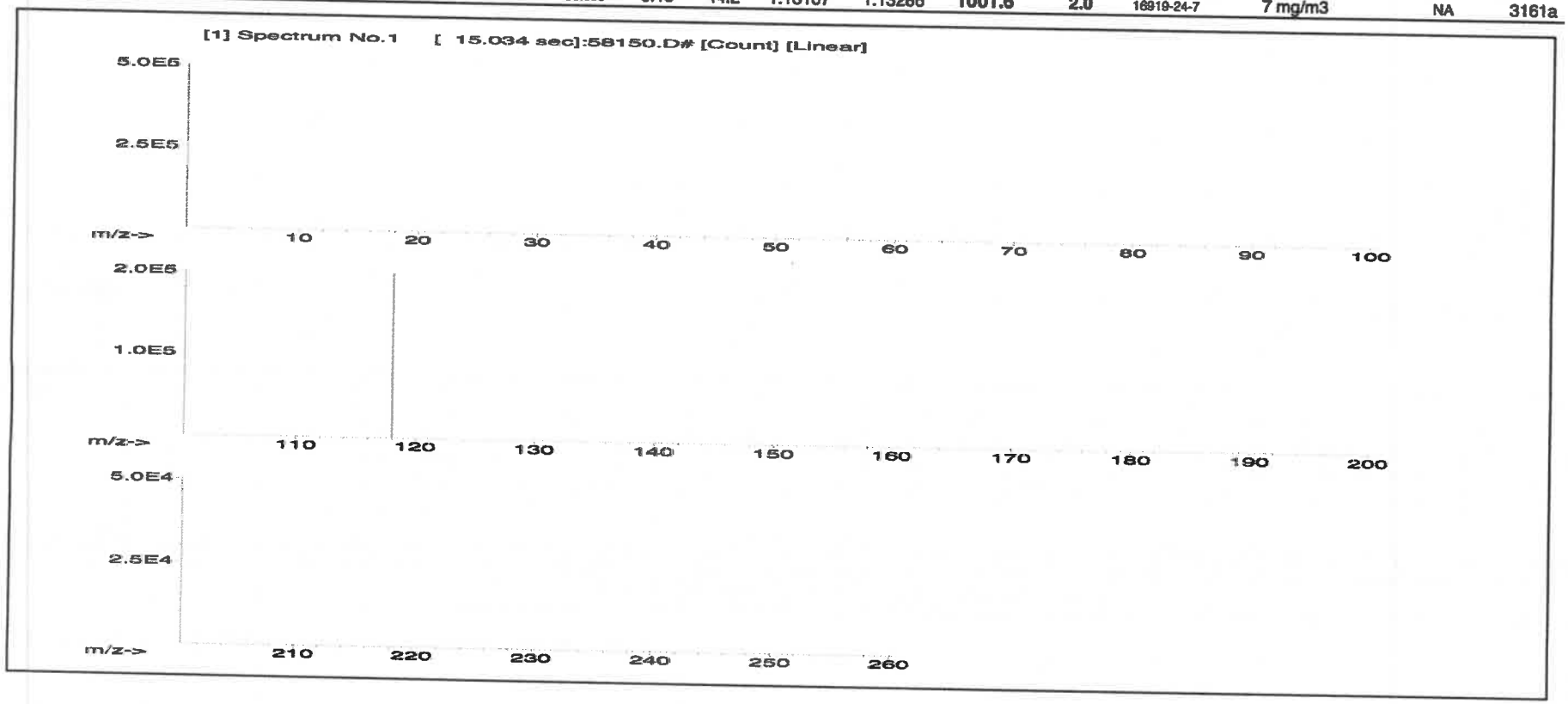
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	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



712

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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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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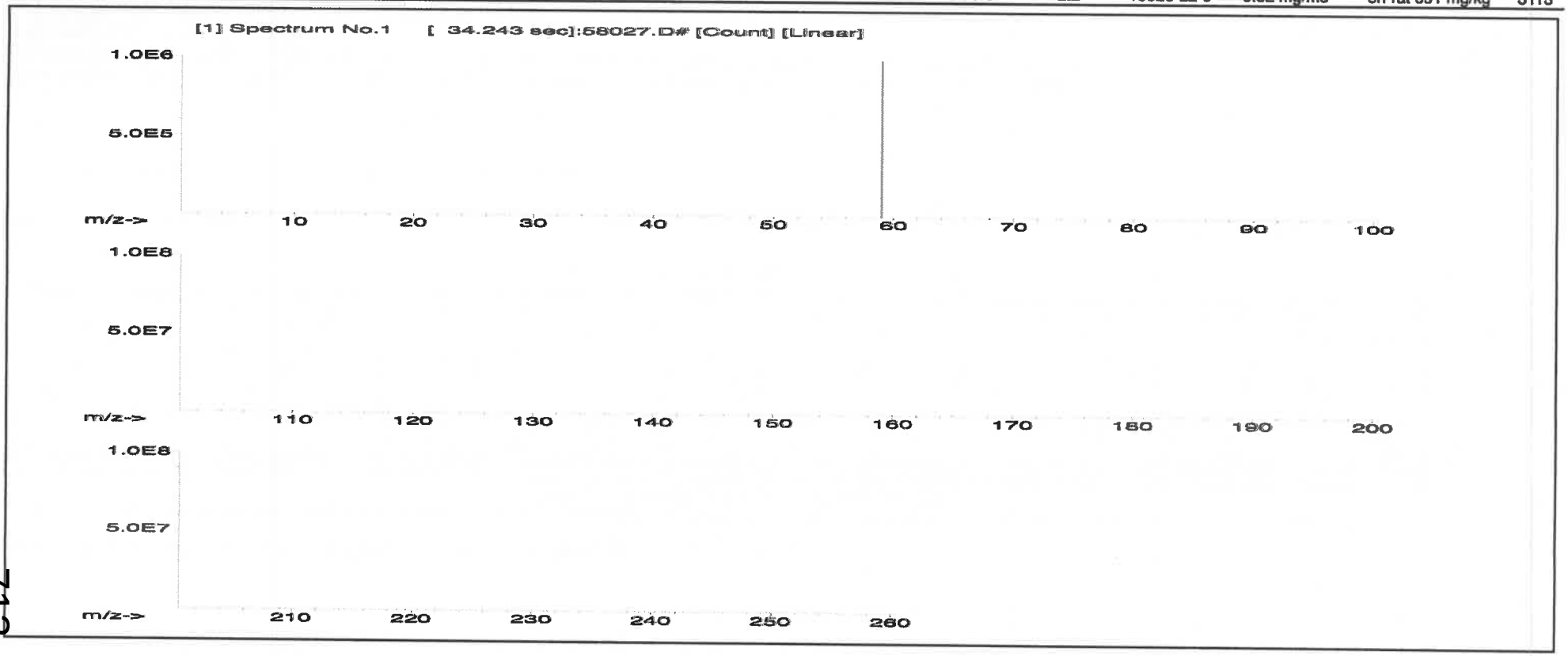
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CERTIFIED WEIGHT REPORT:

		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



713

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	T	Gé	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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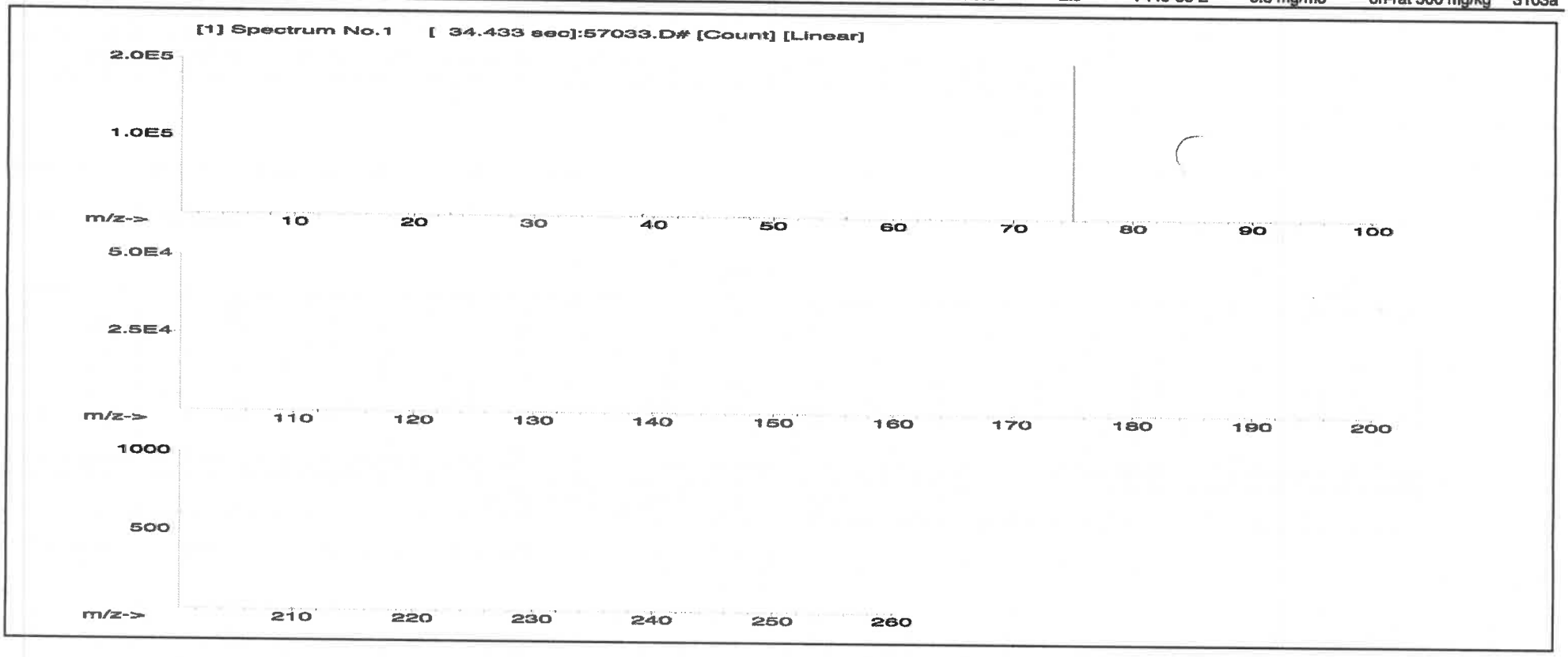
715

CERTIFIED **WEIGHT** REPORT:

		Lot #	Solvent:		
Part Number:	**57033**				
Lot Number:	**111323**	24002546	Nitric Acid		
Description:	**Arsenic (As)**				
		2.0%	80.0 (mL)	Nitric Acid	
Expiration Date:	111326				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty		

Formulated By:	Lawrence Barry	111323
Reviewed By:	Pedro L. Rentas	111323

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Arsenic (As)	58133	020522	0.1000	400.0	0.084	1000	10001.0	**1000.0**	**2.0**	7440-38-2	0.5 mg/m3	orl-rat 500 mg/kg	3103a



719

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	T	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge*	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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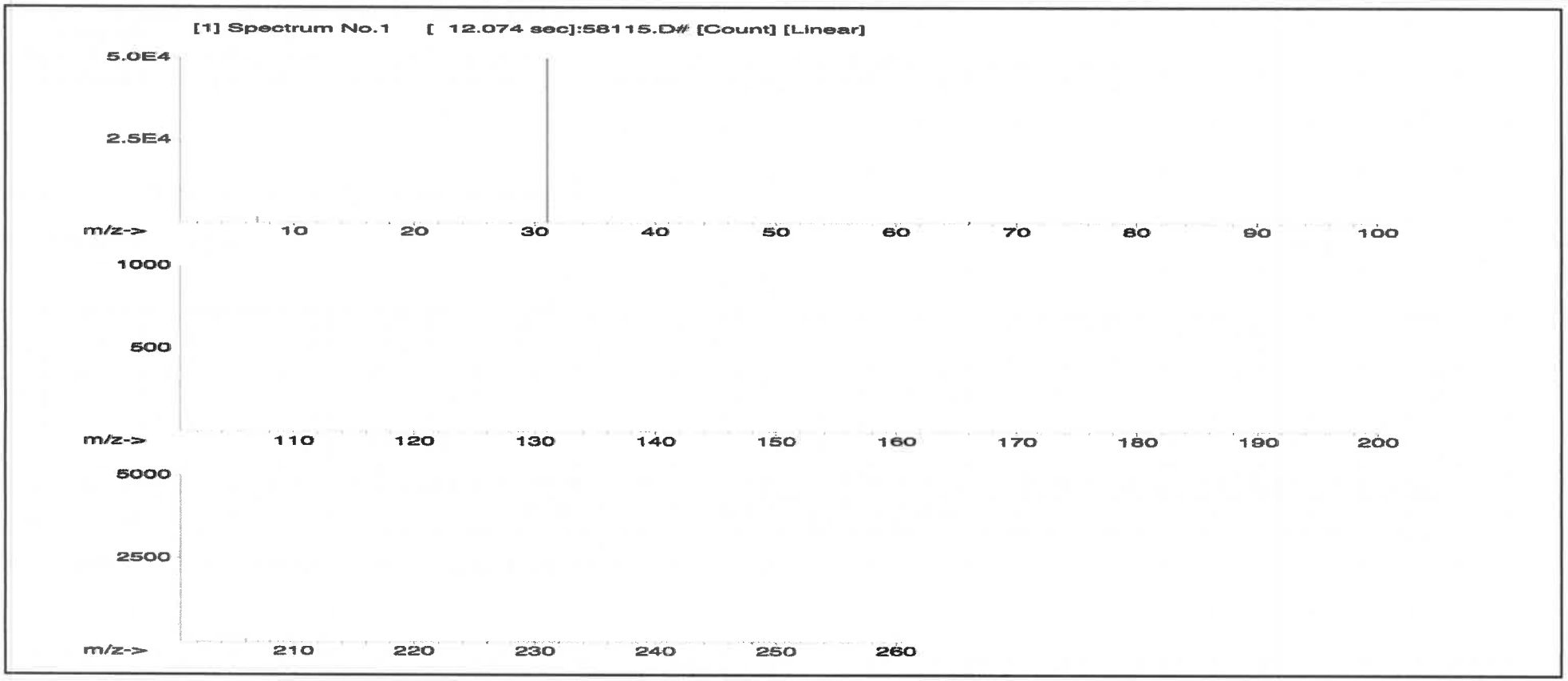
717

CERTIFIED WEIGHT REPORT:

			Lot #	
Part Number:	**57115**	**Solvent:**	21110221	Nitric Acid
Lot Number:	**041723**			
Description:	**Phosphorous (P)**	2%	40.0 (mL)	Nitric Acid
Expiration Date:	041726			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**10000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	041723
Reviewed By:	Pedro L. Rentas	041723

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV082019A1	10000	99.999	0.10	27.5	72.7287	72.7289	**10000.0**	**20.0**	7722-76-1	5 mg/m3	orl-rat >2000mg/kg	3186



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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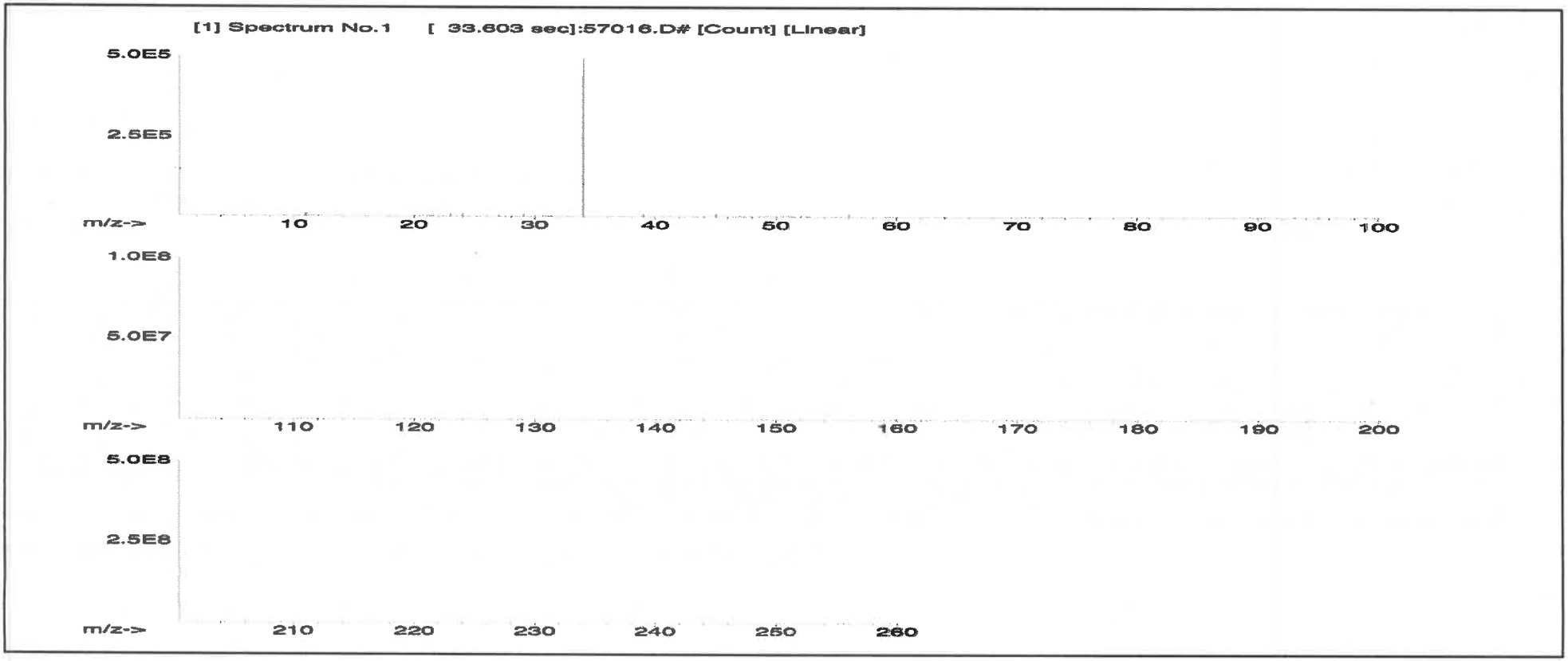
719

CERTIFIED WEIGHT REPORT:

Part Number:	**57016**	**Solvent:**	**Lot #** 122923	ASTM Type 1 Water
Lot Number:	**122923**			
Description:	**Sulfur (S)**			
Expiration Date:	122926			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty	

Formulated By:	Benson Chan	122923
Reviewed By:	Pedro L. Rentas	122923

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBR7225V	1000	99.9	0.10	24.3	16.4979	16.4980	**1000.0**	**2.0**	7783-20-2	NA	orl-rat 4250mg/kg	3181



720

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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721

CERTIFIED WEIGHT REPORT:

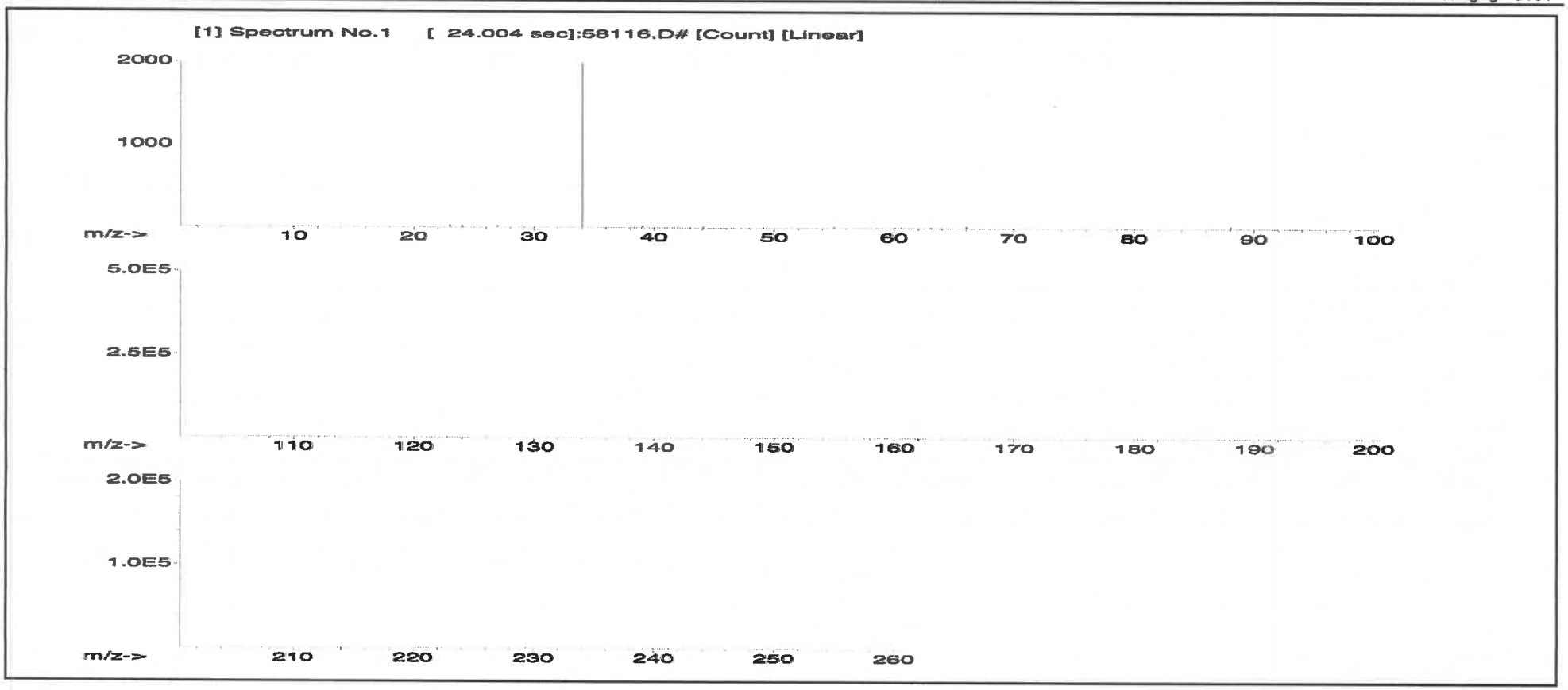
Part Number: 57116
Lot Number: 071123
Description: Sulfur (S)

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



722

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

R: 02/09/24 M.5818

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723

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 0.058 Flask Uncertainty

Solvent: 24002546 Nitric Acid

2% 40.0 (mL) Nitric Acid

5E-05 Balance Uncertainty

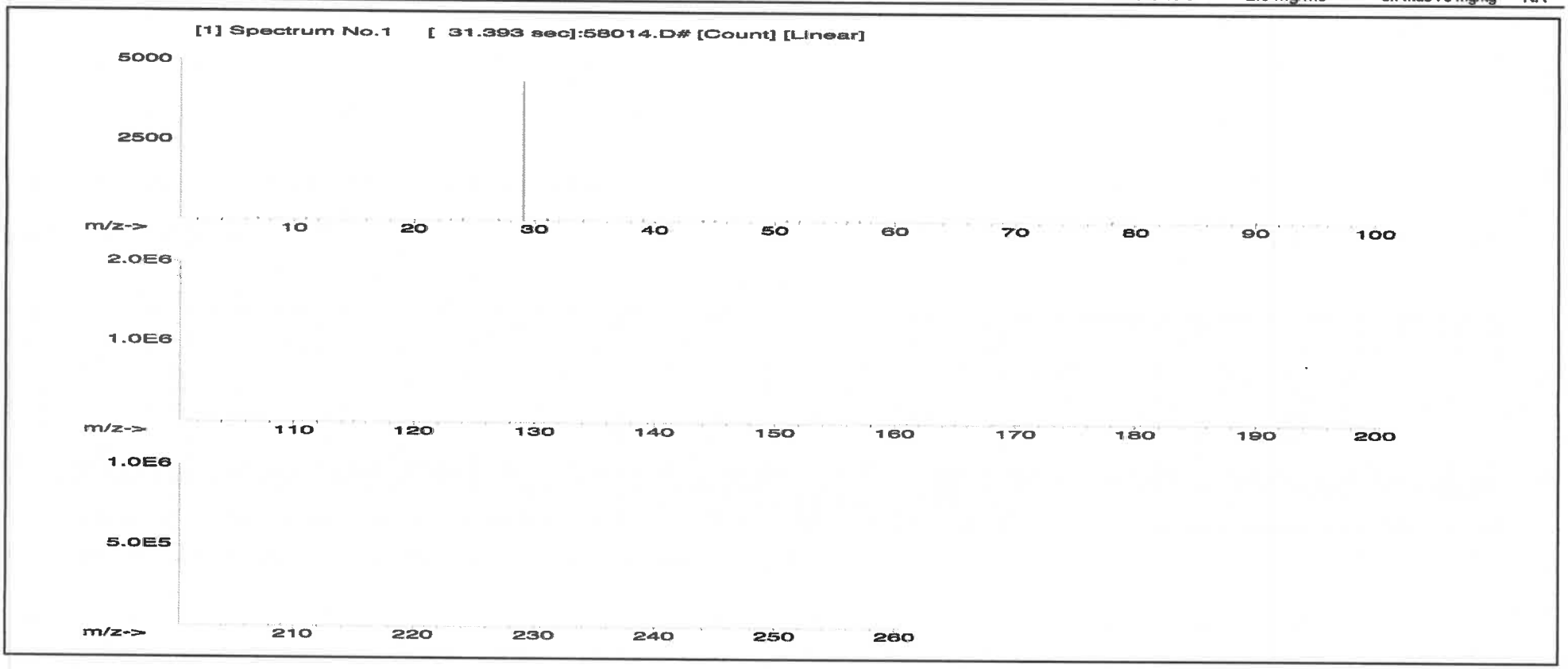
Aleah O'Brady

Formulated By:	Aleah O'Brady	122023

Pedro Rentas

Reviewed By:	Pedro L. Rentas	122023

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



724

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.
* All standard containers are meticulously cleaned prior to use.
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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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725

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

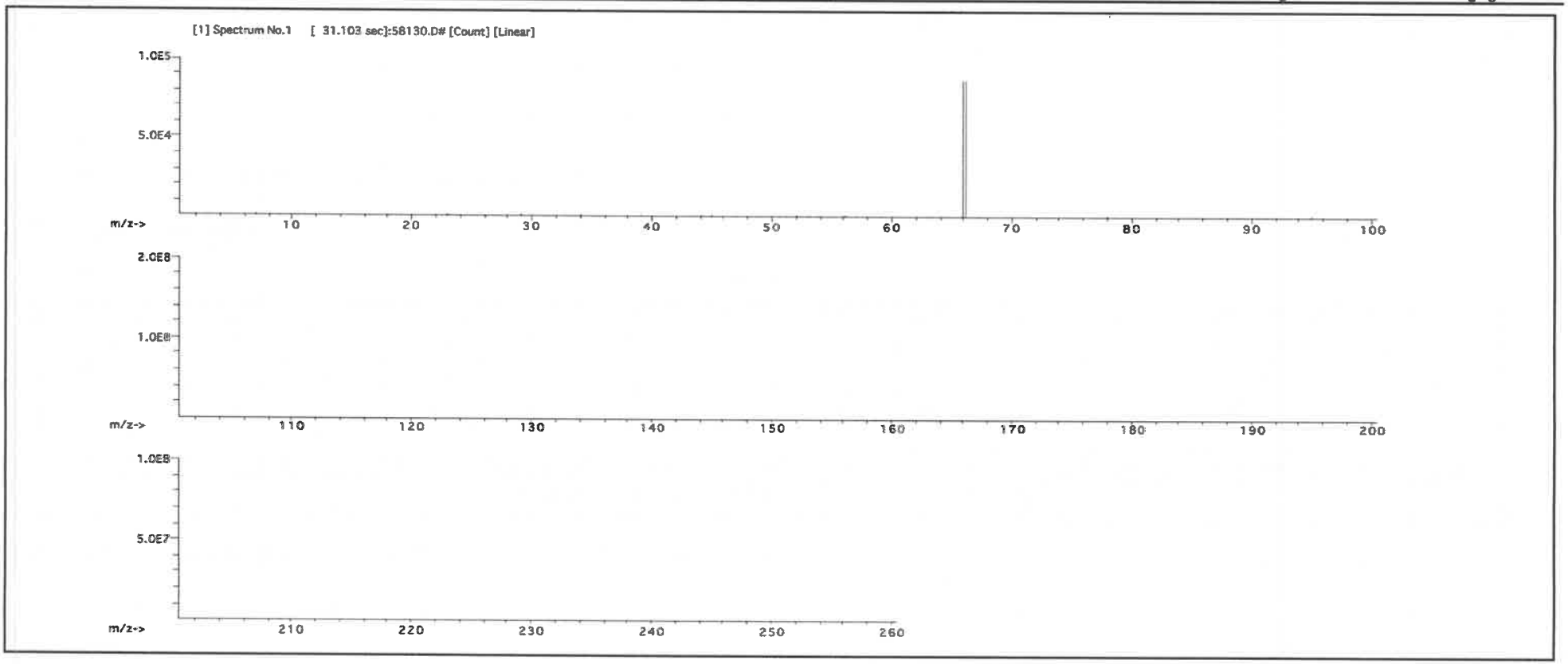
Weight shown below was diluted to (mL): 3000.4 0.06 Flask Uncertainty

	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	ori-rat 1190mg/kg	3168



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	T
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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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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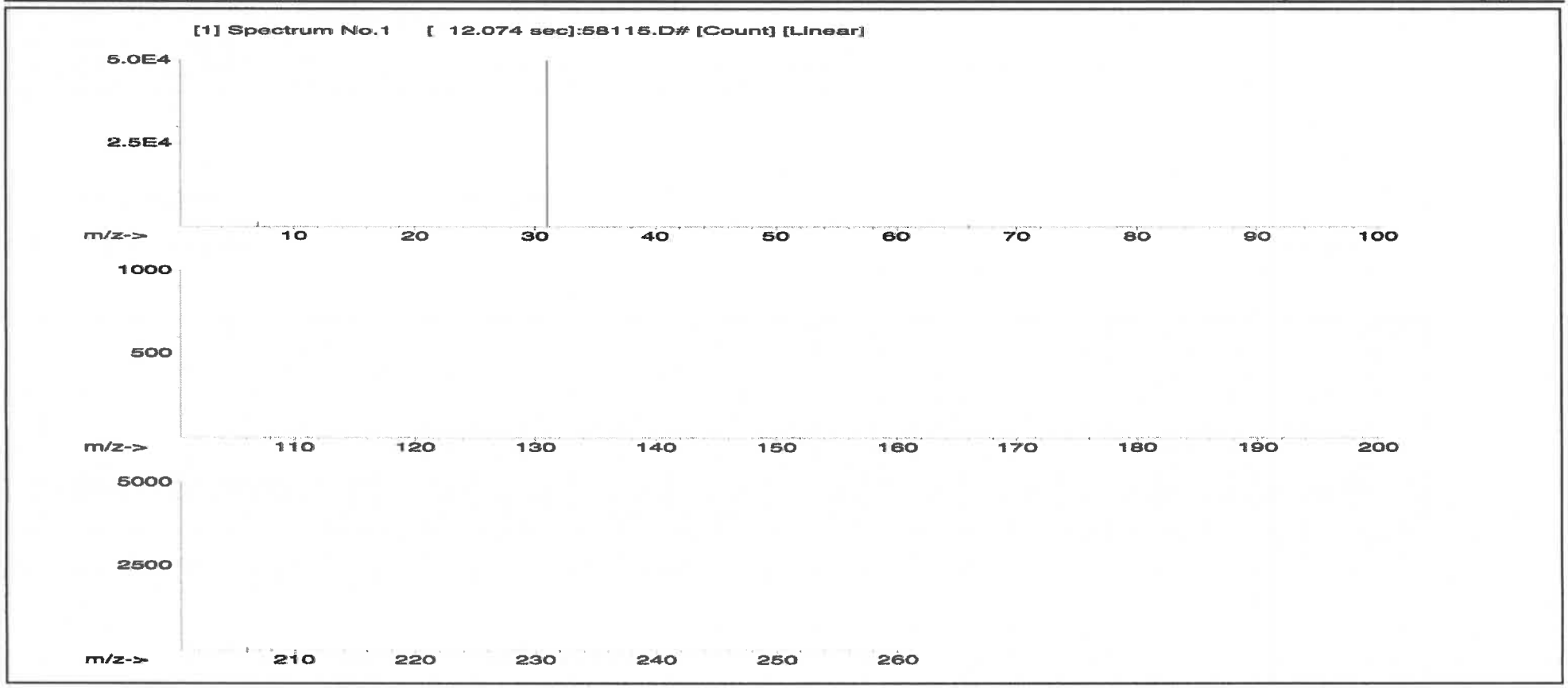
727

CERTIFIED WEIGHT REPORT:

Part Number:	**57015**		**Lot #**		
Lot Number:	**091123**	**Solvent:**	24002546	Nitric Acid	
Description:	**Phosphorous (P)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	091126				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	091123
Reviewed By:	Pedro L. Rentas	091123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV082019A1	1000	99.999	0.10	27.5	7.2729	7.2730	**1000.0**	**2.0**	7722-76-1	5 mg/m3	orl-rat >2000mg/k	3186



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

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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 863.01
ACCREDITED Reference Material Producer Certificate 863.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGY10
Lot Number:	V2-Y740548
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Yttrium
Starting Material:	Yttrium Oxide
Starting Material Lot#:	2661 and 06230520YL
Starting Material Purity:	99.9984%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10000 ± 30 µg/mL

Density: 1.032 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**10011 ± 25 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #2	**9997 ± 50 µg/mL** ICP Assay NIST SRM 3167a Lot Number: 190730
Assay Method #3	**9984 ± 31 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.004600	M	Eu		0.009037	M	Na		0.086360	M	Se	<	0.005200	M	Zn		0.030125
M	Al		0.014862	O	Fe		0.002410	M	Nb	<	0.000570	O	Si		0.024100	O	Zr	<	0.002600
M	As	<	0.003500	M	Ga	<	0.000570	M	Nd		0.000923	M	Sm		0.000461				
M	Au	<	0.001700	M	Gd	<	0.003500	M	Ni	<	0.005700	M	Sn	<	0.002300				
O	B		0.002209	M	Ge	<	0.005200	M	Os	<	0.001200	M	Sr	<	0.004600				
O	Ba	<	0.002500	M	Hf	<	0.000570	n	P	<		M	Ta	<	0.000570				
O	Be	<	0.001400	M	Hg	<	0.000570	M	Pb		0.005020	M	Tb		0.001044				
M	Bi	<	0.003500	M	Ho		0.009037	M	Pd	<	0.005100	M	Te	<	0.002300				
O	Ca		0.009841	M	In	<	0.002300	M	Pr	<	0.002300	M	Th	<	0.000570				
M	Cd	<	0.000570	M	Ir	<	0.000570	M	Pt	<	0.000570	M	Ti	<	0.003500				
M	Ce	<	0.002300	O	K		0.018677	M	Rb	<	0.000570	M	Tl	<	0.000570				
M	Co	<	0.000570	M	La		0.000461	M	Re	<	0.000570	M	Tm	<	0.003500				
M	Cr	<	0.004000	O	Li	<	0.009300	M	Rh	<	0.008000	M	U	<	0.000570				
M	Cs	<	0.000570	M	Lu		0.000582	M	Ru	<	0.000570	M	V		0.001265				
M	Cu		0.002610	O	Mg		0.001486	n	S	<		M	W	<	0.002300				
M	Dy		0.003815	M	Mn		0.000582	M	Sb		0.005422	s	Y	<					
M	Er		0.003615	M	Mo	<	0.005700	M	Sc	<	0.001200	M	Yb		0.001827				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 88.91 +3 6 Y(OH)(H2O)x+2

Chemical Compatibility -Soluble in HCl, H2SO4 and HNO3. Avoid HF, H3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming an insoluble carbonate, oxide, oxalate, and fluoride. Avoid mixing with elements / solutions containing moderate amounts of fluoride.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

Y Containing Samples (Preparation and Solution) - Metal (Soluble in acids); Oxide (Dissolve by heating in H2O/ HNO3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolve in 1:1 H2O / HCl or HNO3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 89 amu	0.8 ppt	N/A	73Ge16O, 178Hf+2
ICP-OES 360.073 nm	0.005 / 0.000036 µg/mL	1	Ce, Th
ICP-OES 371.030 nm	0.004 / 0.00007 µg/mL	1	Ce
ICP-OES 377.433 nm	0.005 / 0.0009 µg/mL	1	Ta, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 20, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- February 20, 2029

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Custom Processing Supervisor



Certificate Approved By:

Muzzammil Khan
Stock Laboratory Supervisor



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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Certified Reference Material CRM

M5960 KK R. 6/11/24

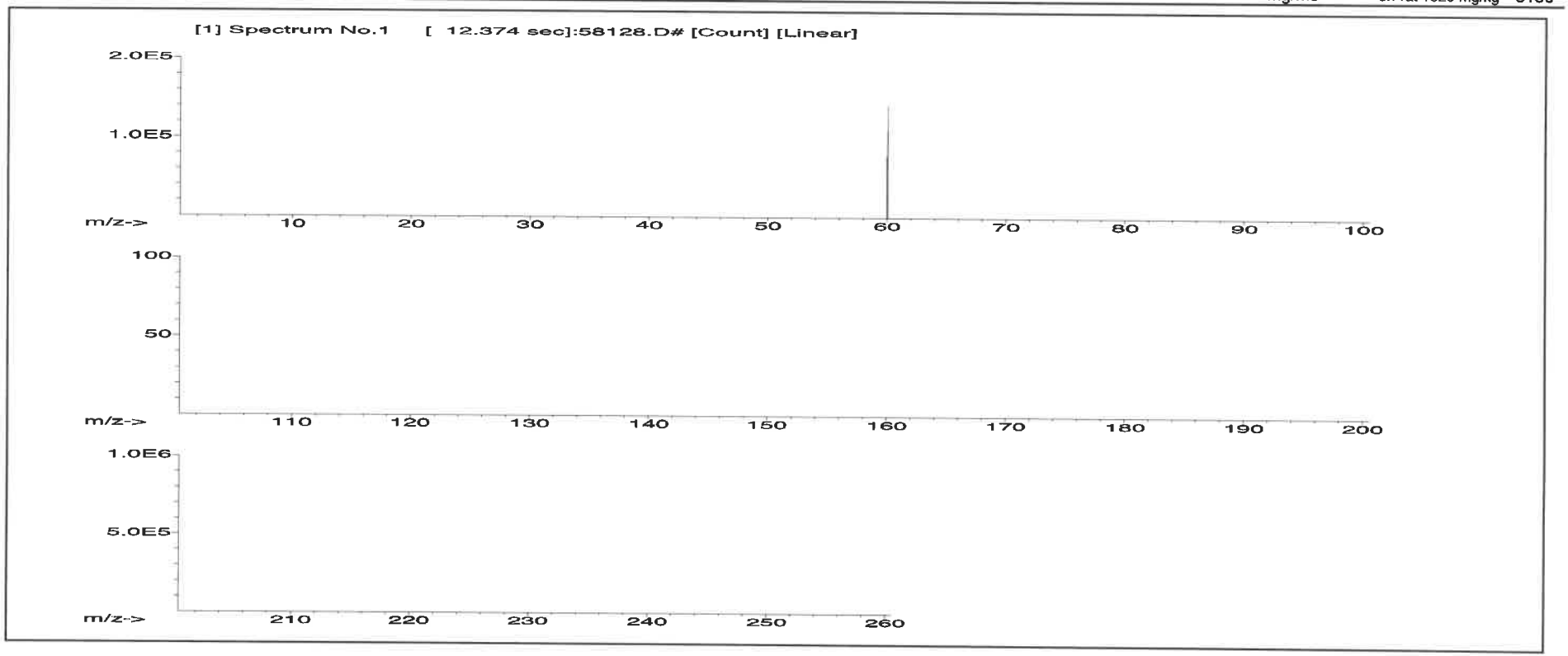
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

			Lot #	
Part Number:	**57028**	**Solvent:**	24002546	Nitric Acid
Lot Number:	**041124**			
Description:	**Nickel (Ni)**			
		2%	5.0 (mL)	Nitric Acid
Expiration Date:	041127			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	249.85	0.002	Flask Uncertainty	

Formulated By:	Brian Geddes	041124
Reviewed By:	Pedro L. Rentas	041124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Nickel(II) nitrate hexahydrate (Ni)	IN033	NIM052023A1	1000	99.999	0.10	20.2	1.2369	1.2369	**1000.0**	**2.0**	13478-00-7	1 mg/m3	orl-rat 1620 mg/kg	3136



733

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).

734

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Certified Reference Material CRM

M5962 R! 06/14/24.

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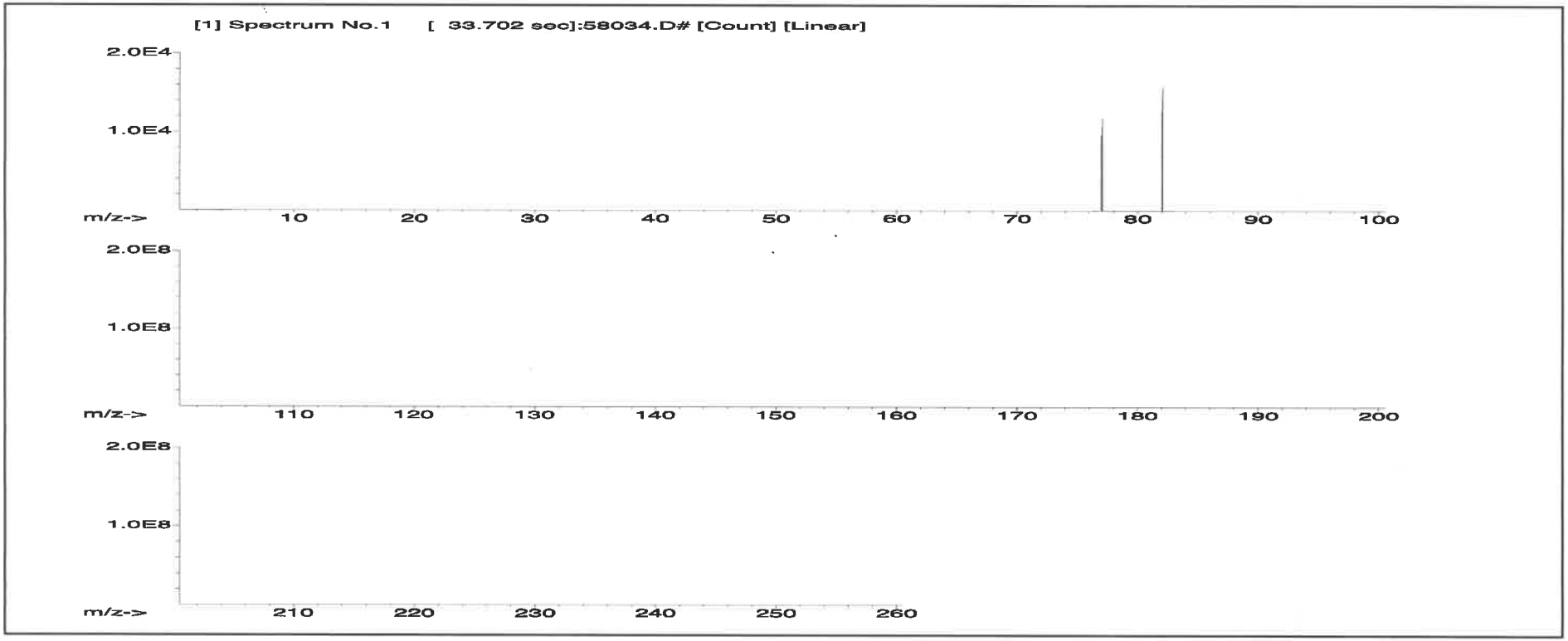
735

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



736

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																		
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	T	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

M5970, M5971 R: 7/01/24

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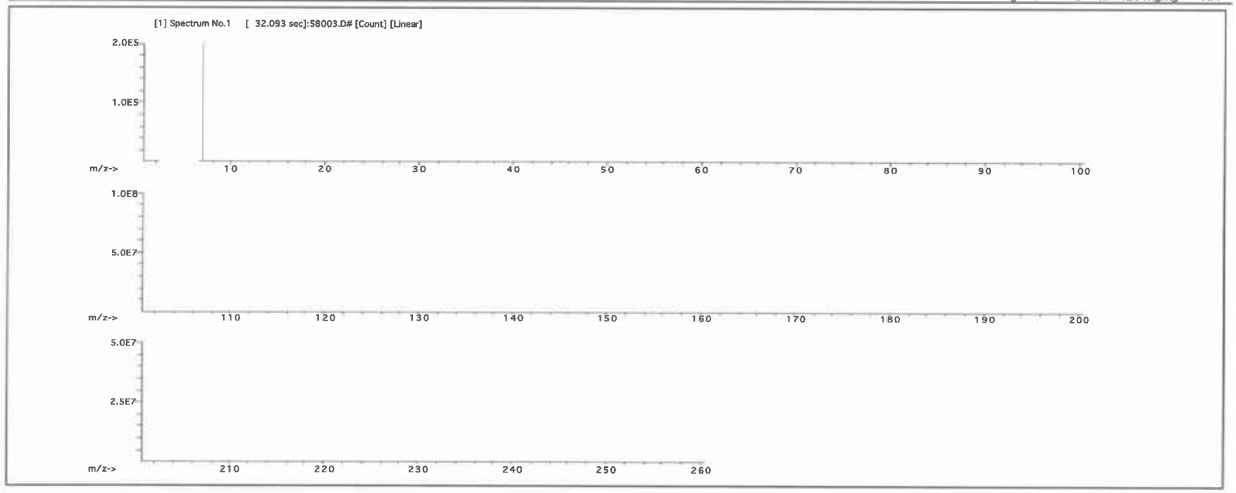
CERTIFIED WEIGHT REPORT:

				Lot #	Solvent:		
Part Number:	**57003**			24002546	Nitric Acid		
Lot Number:	**062124**						
Description:	**Lithium (Li)**						
				2.0%	5.0 (mL)	Nitric Acid	
Expiration Date:	062127						
Recommended Storage:	Ambient (20 °C)						
Nominal Concentration (µg/mL):	**1000**						
NIST Test Number:	6UTB	5E-05	Balance Uncertainty				
Volume shown below was diluted to (mL):	250.11	0.016	Flask Uncertainty				

Giovanni Esposito
Formulated By: Giovanni Esposito 062124

Pedro Rentas
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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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.
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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certificate of Analysis

M5976, M5977
R: 02/22/24

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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:	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



M5978, M5979

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300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

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P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGTI1
Lot Number:	T2-TI719972
Matrix:	2% (v/v) HNO3 tr. HF
Value / Analyte(s):	1 000 µg/mL ea: Titanium
Starting Material:	Ti Metal
Starting Material Lot#:	2094
Starting Material Purity:	99.9975%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 5 µg/mL

Density: 1.012 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **1002 ± 4 µg/mL**
ICP Assay NIST SRM 3162a Lot Number: 130925

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$
w_i = the weighting factors for each method calculated using the inverse square of the variance

$w_i = (1/u_{char\ i}^2) / (\Sigma(1/u_{char\ i}^2))$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

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

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

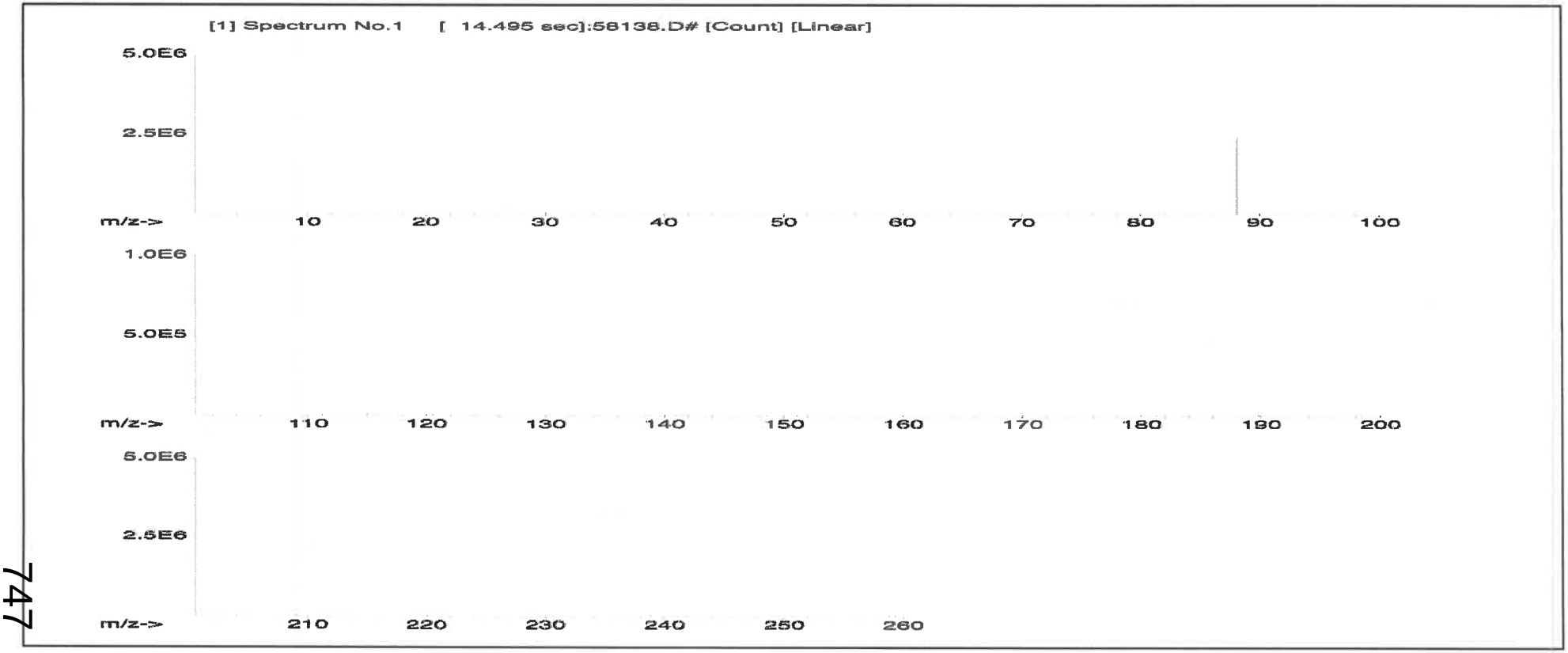
45982 R: 6/11/24

CERTIFIED WEIGHT REPORT:

Part Number:	**57038**		**Lot #**		
Lot Number:	**031524**	**Solvent:**	24002546	Nitric Acid	
Description:	**Strontium (Sr)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	031527				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty		

Formulated By:	Benson Chan	031524
Reviewed By:	Pedro L. Rentas	031524

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Strontium nitrate (Sr)	IN017	SRZ022018A1	1000	99.997	0.10	41.2	4.85470	4.85502	**1000.1**	**2.0**	10042-76-9	NA	orl-rat >2000mg/kg	3153a



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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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300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
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 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

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 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



INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

R: 2/22/2024
M5999

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:	CLPP-SPK-1
Lot Number:	T2-MEB721963
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	2 000 µg/mL ea: Aluminum, Barium, 1 000 µg/mL ea: Iron, 500 µg/mL ea: Manganese, Nickel, Vanadium, Zinc, Cobalt, 250 µg/mL ea: Copper, 200 µg/mL ea: Chromium, 50 µg/mL ea: Beryllium, Silver

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	2 000 ± 7 µg/mL	Barium, Ba	2 000 ± 9 µg/mL
Beryllium, Be	50.00 ± 0.26 µg/mL	Chromium, Cr	200.0 ± 1.1 µg/mL
Cobalt, Co	500.0 ± 2.4 µg/mL	Copper, Cu	250.0 ± 1.0 µg/mL
Iron, Fe	1 000 ± 4 µg/mL	Manganese, Mn	500.0 ± 2.0 µg/mL
Nickel, Ni	500.0 ± 2.2 µg/mL	Silver, Ag	50.00 ± 0.22 µg/mL
Vanadium, V	500.0 ± 2.2 µg/mL	Zinc, Zn	500.0 ± 2.2 µg/mL

Density: 1.070 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Ag	Calculated		See Sec. 4.2
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
V	IC Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)\,(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 27, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- July 27, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

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

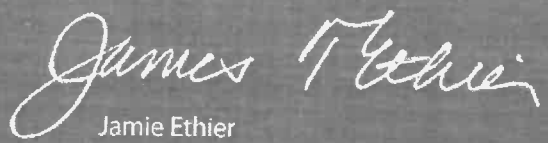
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Material No.: 9530-33
Batch No.: 0000275677

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

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M6125 Receive -> 11/22/24

CORCO CHEMICAL CORPORATION

Manufacturers of ACS Reagents and Semiconductor Grade Chemicals

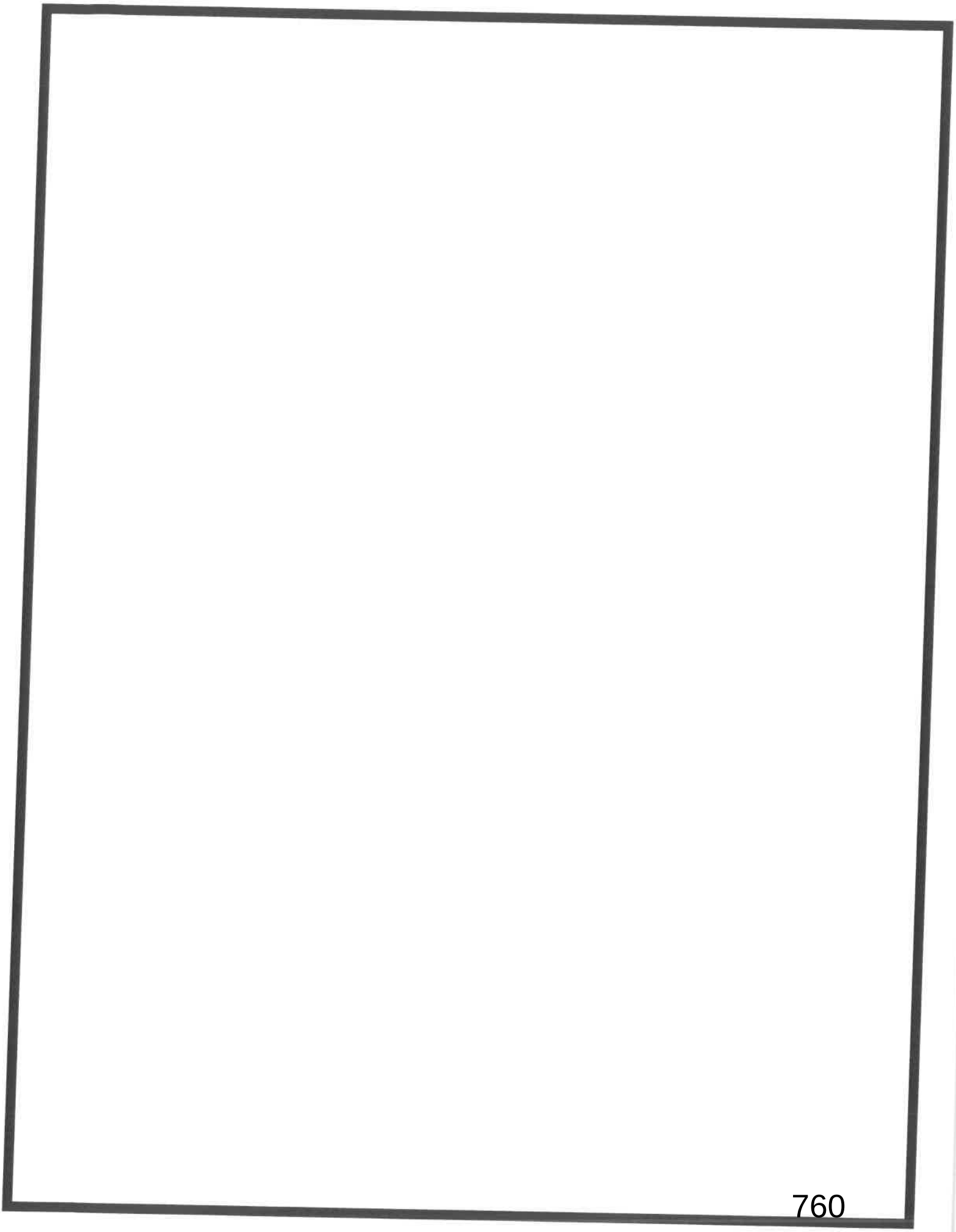
Office and Plant
299 Cedar Lane
Fairless Hills, PA 19030

Phone: 215-295-5006
Fax: 215-295-0781

Hydrogen Peroxide 30%, ACS

Reagent Grade

SPECIFICATION	MAXIMUM LIMITS
Appearance	Colorless and free from suspended matter or sediment
Assay	29-32%
Color (APHA)	10
Residue after Evaporation	0.002%
Titratable Acid	0.0006 meq/g
Chloride (Cl)	3 ppm
Nitrate (NO_3)	2 ppm
Phosphate	2 ppm
Sulfate (SO_4)	5 ppm
Ammonium (NH_4)	5 ppm
Heavy Metals (as Pb)	1 ppm
Iron (Fe)	0.5 ppm



Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

R -> 11/12/24

M6126

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 01/03/24 M5806, M5807

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

763

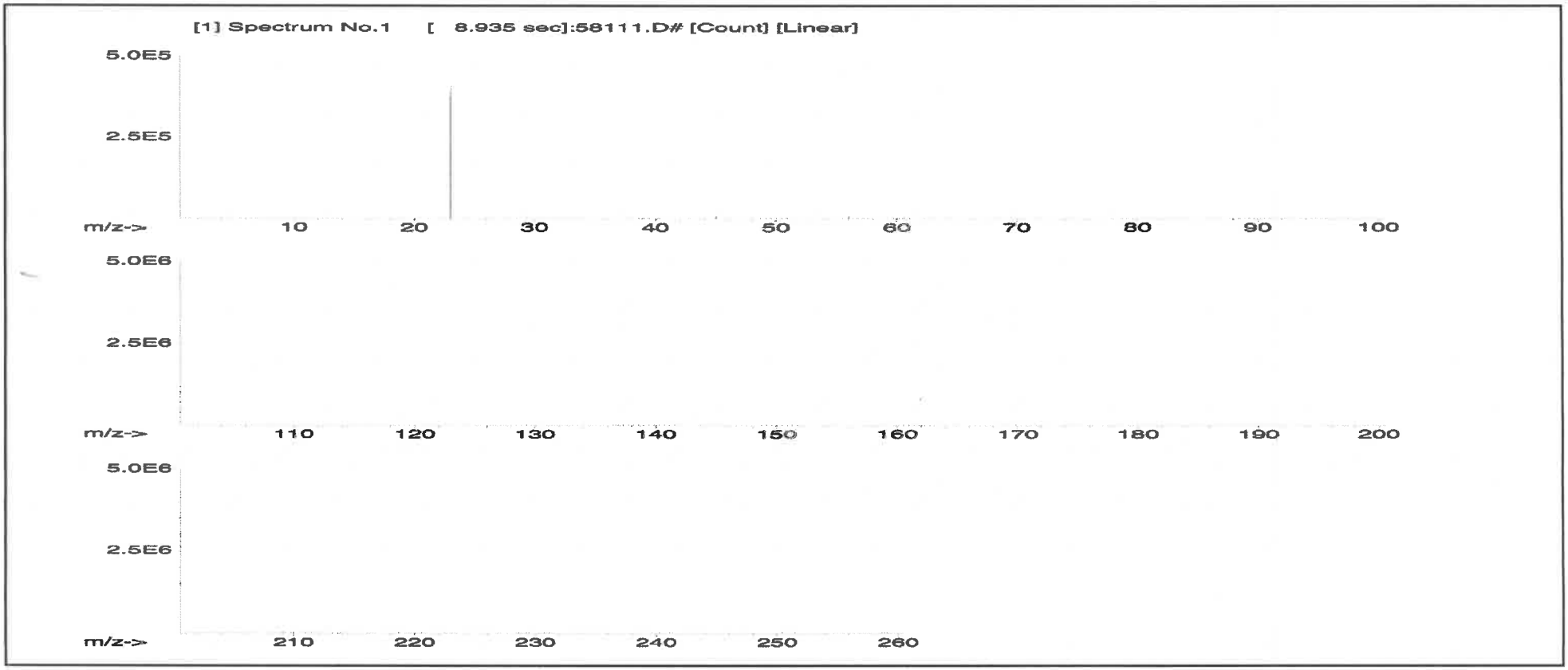
CERTIFIED WEIGHT REPORT:

			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



764

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

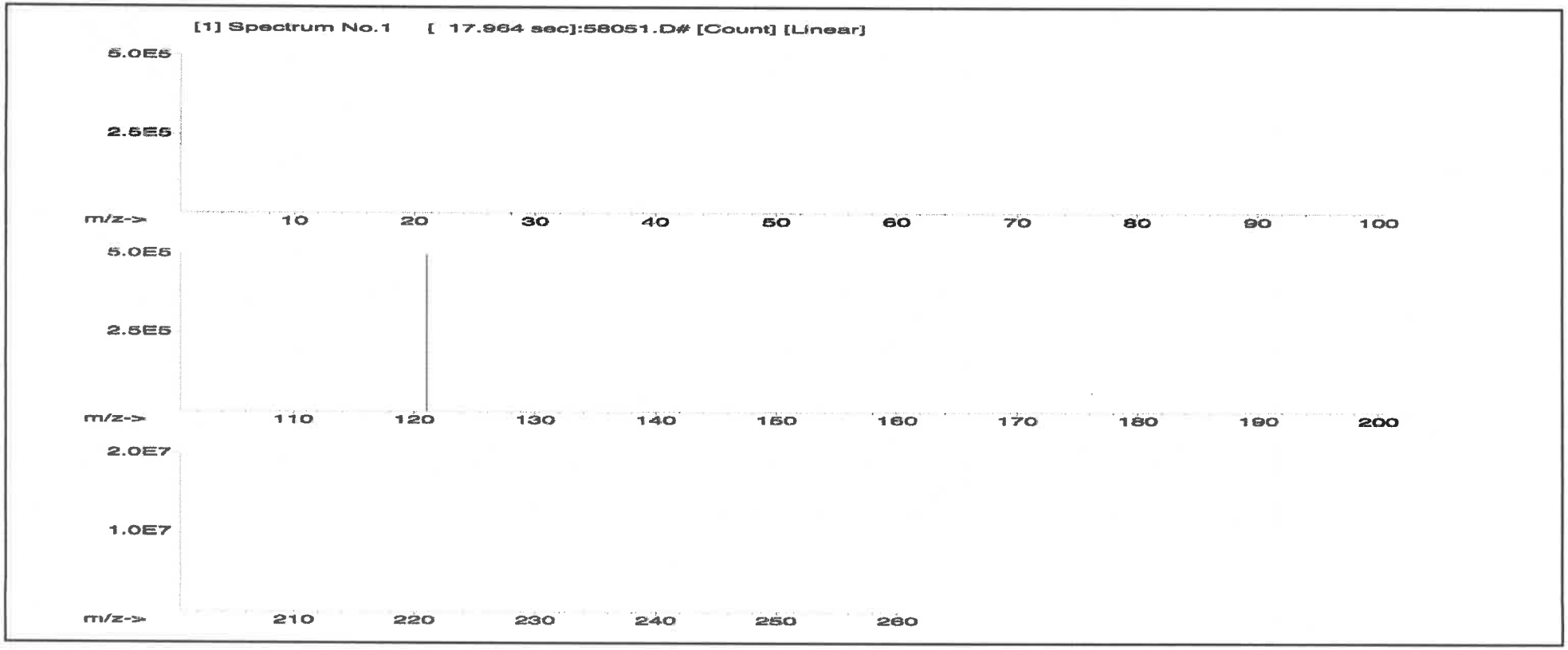
765

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



7996

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	T	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* 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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M6030

R: 8/5/24

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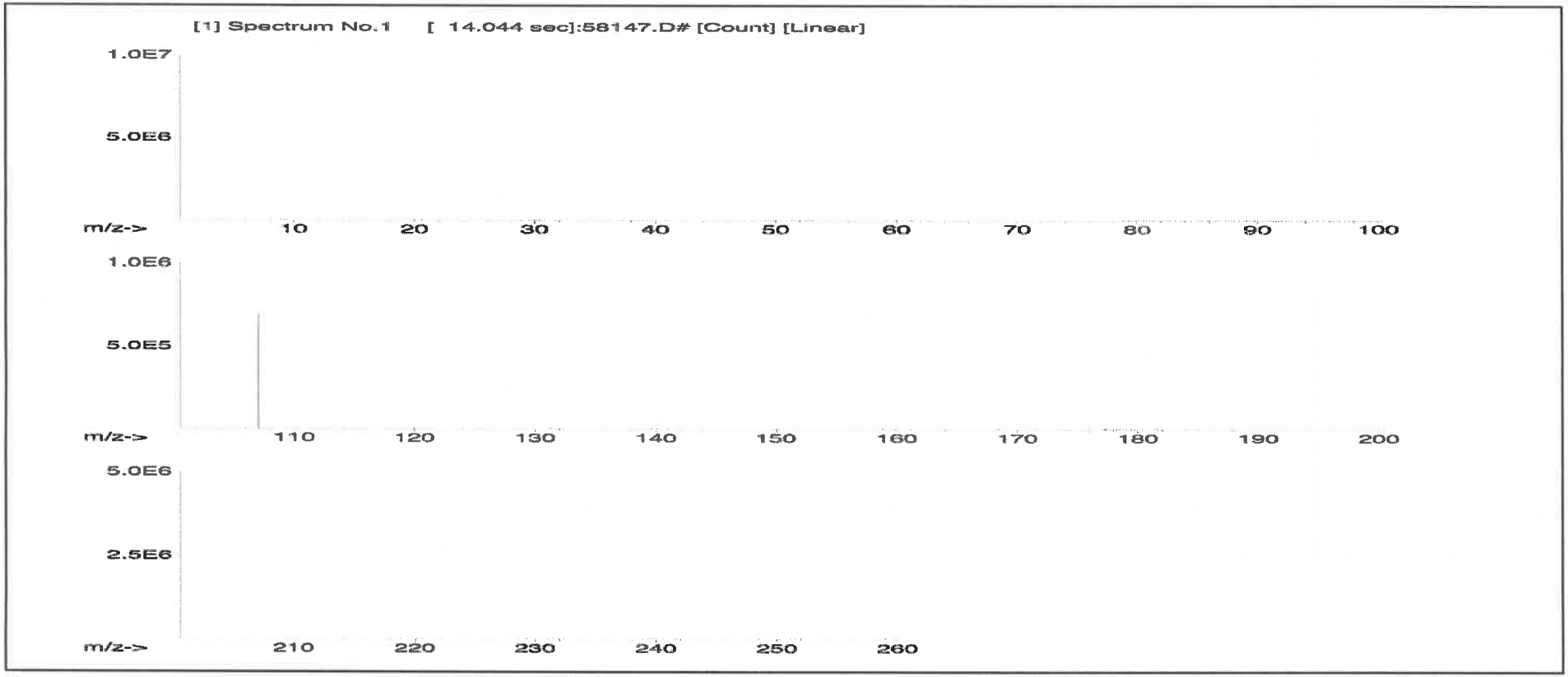
797

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



768

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	T	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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R: 03/16/23 M5473, M5474, M5475, M5476

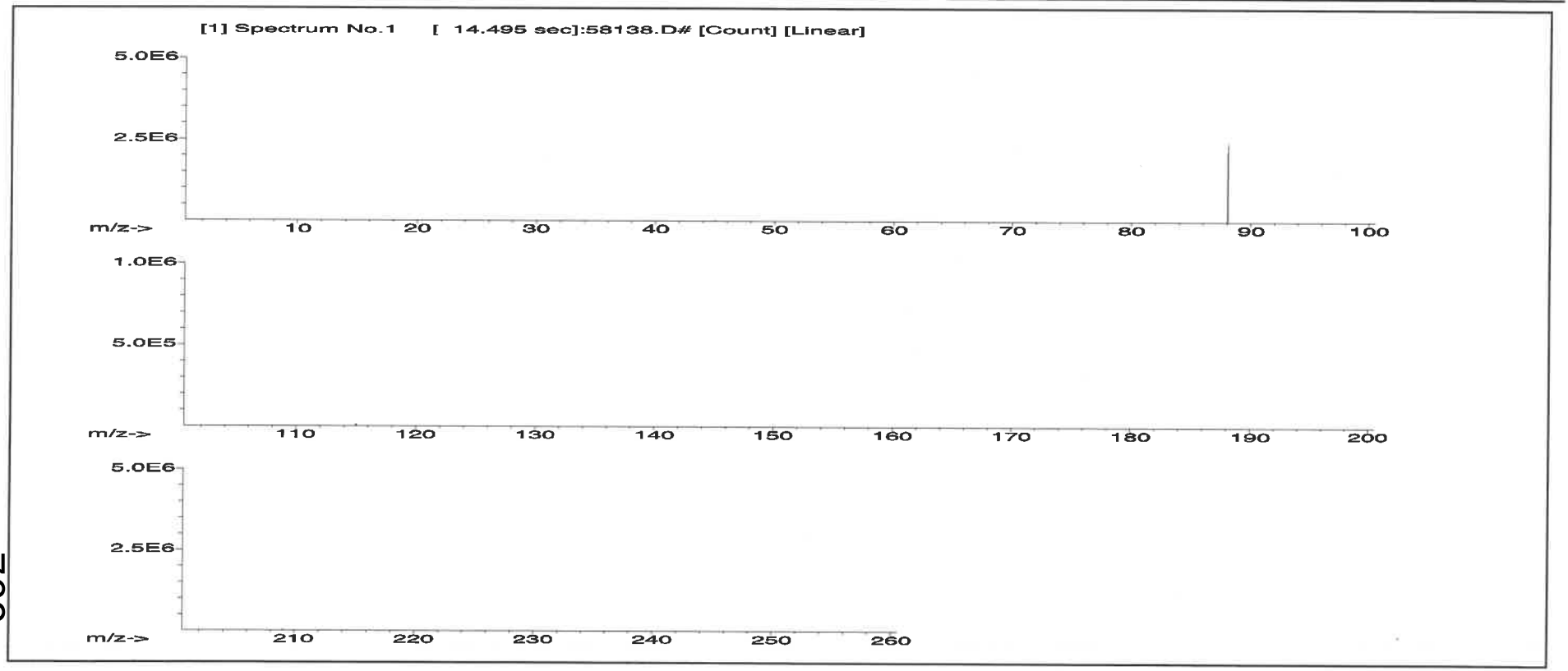
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CERTIFIED WEIGHT REPORT:

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



769

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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770

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771

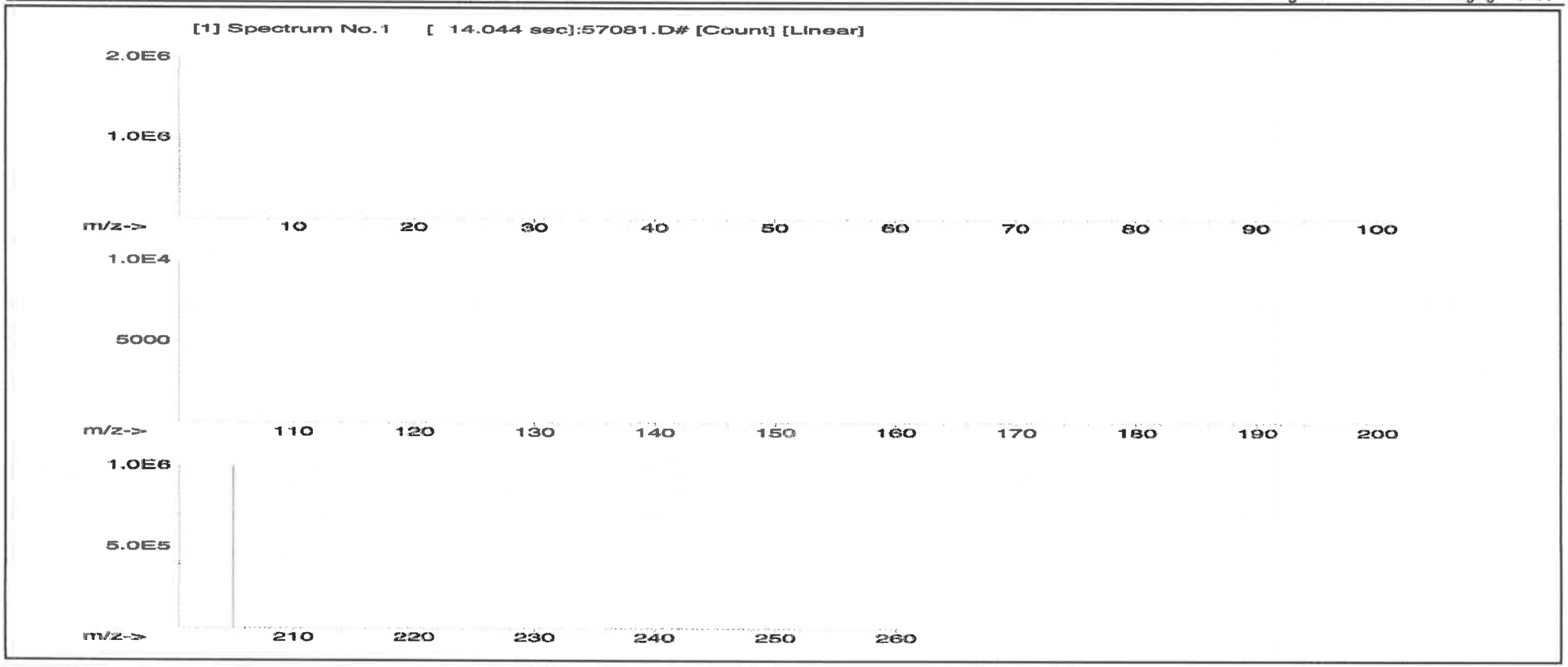
CERTIFIED WEIGHT REPORT:

Part Number:	**57081**		**Lot #**		
Lot Number:	**062724**	**Solvent:**	24002546	Nitric Acid	
Description:	**Thallium (Tl)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	062727				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.1	0.10	Flask Uncertainty		

Aleah O'Brady

Formulated By:	Aleah O'Brady	062724
Reviewed By:	Pedro L. Rentas	062724

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Thallium nitrate (Tl)	IN037	BCCF4399	1000	99.999	0.10	77.0	2.5975	2.5977	**1000.1**	**2.0**	10102-45-1	0.1 mg/m3	orl-mus 15mg/kg	3158



772

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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773

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57023**			
Lot Number:	**062424**			
Description:	**Vanadium (V)**	24002546	Nitric Acid	
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	062427			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.3	0.06	Flask Uncertainty	

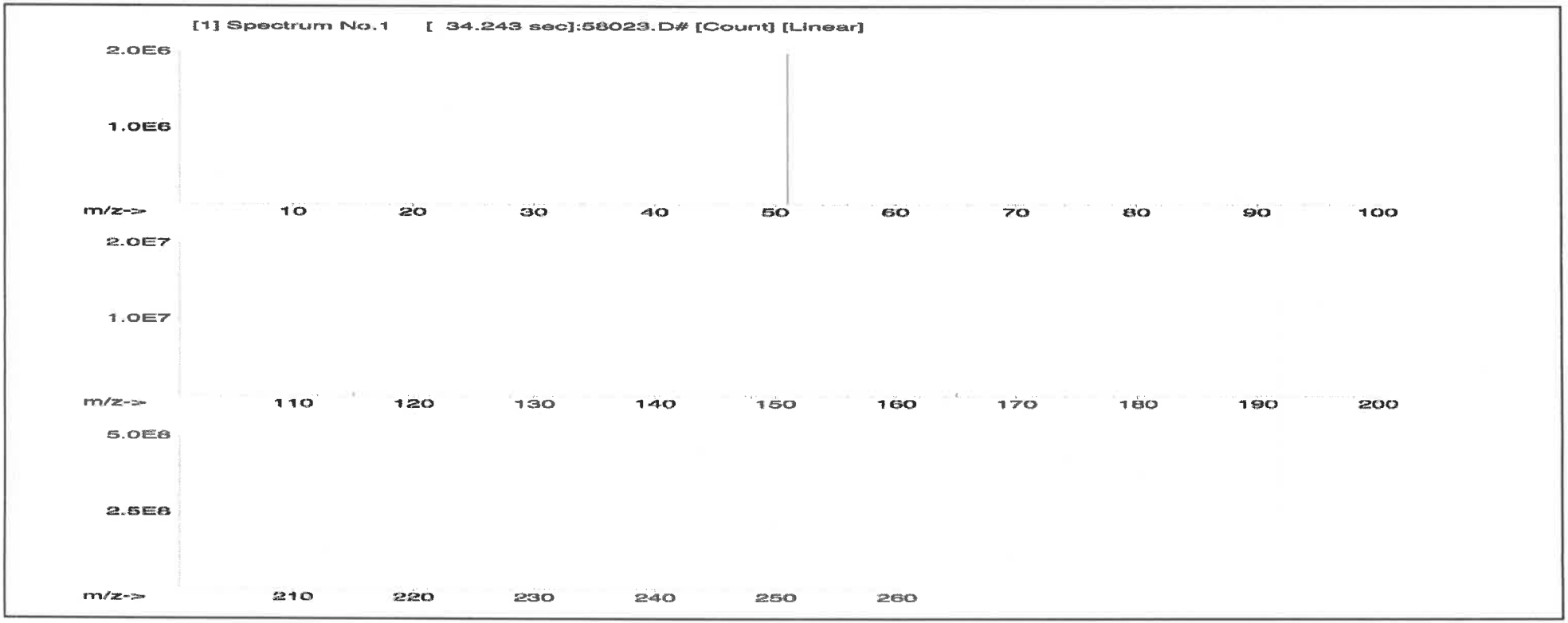
Aleah O'Brady

Formulated By:	Aleah O'Brady	062424

Pedro Rentas

Reviewed By:	Pedro L. Rentas	062424

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium metavanadate (V)	58123	021224	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	7803-55-6	0.05 mg/m3	orl-rat 58.1mg/kg	3165



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	T
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB165495

SOP ID : M3050B-Digestion-20, MSFAM01.1-Trace Metals-2

SDG No : MBHKR8

Matrix : SOIL

Pippete ID: ICP A

Balance ID : M SC-2

Filter paper ID : N/A

pH Strip ID : N/A

Hood ID : #3

Block ID: 1. HOT BLOCK #5 2. N/A

Start Digest Date: 12/09/2024 **Time :** 12:00 **Temp :** 96 °C

End Digest Date: 12/09/2024 **Time :** 14:10 **Temp :** 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. # 5

Dig Technician Signature:

Supervisor Signature:

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LCSS	1.00	MP83506
Spike Sol 6	1.00	MP83512
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	MP83498
Conc. HNO3	5.00	M6126
30% H2O2	3.00	M6125
Conc. HCL	10.00	M6121
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK #5 CELL #35 : 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/09/24 14:50	MCT DIGESTION.	
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB165495

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
P5060-01	MBHKR8	N/A	1.26	100	Black	Yellow	Medium	N/A	N/A	1
P5060-02	MBHKR8D	N/A	1.37	100	Black	Yellow	Medium	N/A	N/A	2
P5060-03	MBHKR8S	N/A	1.34	100	Black	Yellow	Medium	N/A	MP83512	3
P5060-04	MBHKW4	N/A	1.48	100	Brown	Yellow	Medium	N/A	N/A	4
P5060-05	MBHKY6	N/A	1.37	100	Black	Yellow	Medium	N/A	N/A	5
P5060-06	MBHKY7	N/A	1.31	100	Brown	Yellow	Medium	N/A	N/A	6
P5060-07	MBHKY8	N/A	1.29	100	Brown	Yellow	Medium	N/A	N/A	7
P5060-08	MBHKY9	N/A	1.34	100	Brown	Yellow	Medium	N/A	N/A	8
P5060-09	MBHKZ0	N/A	1.33	100	Brown	Yellow	Medium	N/A	N/A	9
P5060-10	MBHKZ1	N/A	1.22	100	Brown	Yellow	Medium	N/A	N/A	10
P5060-11	MBHKZ2	N/A	1.30	100	Brown	Yellow	Medium	N/A	N/A	11
P5060-12	MBHL56	N/A	1.43	100	Black	Yellow	Medium	N/A	N/A	12
P5060-13	MBHL57	N/A	1.38	100	Brown	Yellow	Medium	N/A	N/A	13
P5060-14	MBHKX1	N/A	1.41	100	Brown	Yellow	Medium	N/A	N/A	14
P5060-15	MBHKX2	N/A	1.34	100	Black	Yellow	Medium	N/A	N/A	15
P5060-16	MBHKX3	N/A	1.26	100	Black	Yellow	Medium	N/A	N/A	16
P5060-17	MBHKX4	N/A	1.25	100	Brown	Yellow	Medium	N/A	N/A	17
P5060-18	MBHKX6	N/A	1.35	100	Brown	Yellow	Medium	N/A	N/A	18
P5060-19	MBHKX7	N/A	1.21	100	Brown	Yellow	Medium	N/A	N/A	19
P5060-20	MBHKX8	N/A	1.40	100	Brown	Yellow	Medium	N/A	N/A	20
P5060-21	MBHL58	N/A	1.16	100	Brown	Yellow	Medium	N/A	N/A	21
P5060-22	MBHL59	N/A	1.46	100	Brown	Yellow	Medium	N/A	N/A	22
PB165495BL	PBS495	N/A	1.00	100	Colorless	Colorless	Fine	N/A	N/A	23
PB165495BS	LCS495	N/A	1.00	100	Colorless	Colorless	Fine	N/A	MP83506	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 # LB133990

Review By	Kareem Khairalla	Review On	12/19/2024 12:28:16 AM
Supervise By	Sarabjit Jaswal	Supervise On	1/6/2025 8:51:01 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	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	12/17/24 16:14		Kareem	OK
2	S1	S01	CAL2	12/17/24 16:18		Kareem	OK
3	S2	S02	CAL3	12/17/24 16:22		Kareem	OK
4	S3	S03	CAL4	12/17/24 16:26		Kareem	OK
5	S4	S04	CAL5	12/17/24 16:30		Kareem	OK
6	S5	S05	CAL6	12/17/24 16:33		Kareem	OK
7	S6	S06	CAL7	12/17/24 16:37		Kareem	OK
8	ICV006	ICV006	ICV	12/17/24 17:27	Inst. paused for calibration review	Kareem	OK
9	ICB006	ICB006	ICB	12/17/24 17:33	Inst. paused for review	Kareem	OK
10	ICSA006	ICSA006	ICSA	12/17/24 17:49	Inst. paused for review	Kareem	OK
11	ICSAB006	ICSAB006	ICSAB	12/17/24 17:53		Kareem	OK
12	CCV049	CCV049	CCV	12/17/24 17:57		Kareem	OK
13	CCB049	CCB049	CCB	12/17/24 18:00		Kareem	OK
14	PB165489BL	PBS489	MB	12/17/24 18:05		Kareem	OK
15	PB165489BS	LCS489	LCS	12/17/24 18:09		Kareem	OK
16	PB165495BL	PBS495	MB	12/17/24 18:13		Kareem	OK
17	PB165495BS	LCS495	LCS	12/17/24 18:17		Kareem	OK
18	PB165506BL	PBS506	MB	12/17/24 18:21	Not used	Kareem	Not Ok

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CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

19	PB165506BS	LCS506	LCS	12/17/24 18:25	Not used	Kareem	Not Ok
20	PB165466BL	PBS466	MB	12/17/24 18:29		Kareem	OK
21	PB165466BS	LCS466	LCS	12/17/24 18:33		Kareem	OK
22	PB165453BL	PBS453	MB	12/17/24 18:37		Kareem	OK
23	PB165453BS	LCS453	LCS	12/17/24 18:41		Kareem	OK
24	P5057-01	MBHL03	SAM	12/17/24 18:45		Kareem	OK
25	P5057-02	MBHL04	SAM	12/17/24 18:49		Kareem	OK
26	P5057-03	MBHL05	SAM	12/17/24 18:53		Kareem	OK
27	P5057-04	MBHL06	SAM	12/17/24 18:57	Ca high	Kareem	Dilution
28	P5057-05	MBHL07	SAM	12/17/24 19:00		Kareem	OK
29	P5057-06	MBHL08	SAM	12/17/24 19:04		Kareem	OK
30	P5057-07	MBHL09	SAM	12/17/24 19:08		Kareem	OK
31	P5057-08	MBHL09D	DUP	12/17/24 19:12		Kareem	OK
32	P5057-07L	MBHL09L	SD	12/17/24 19:16		Kareem	OK
33	P5057-09	MBHL09S	MS	12/17/24 19:20	Fail for Se(84.0314ppb),Tl(Below RL),Zn(1644.079ppb)	Kareem	OK
34	CCV050	CCV050	CCV	12/17/24 19:24		Kareem	OK
35	CCB050	CCB050	CCB	12/17/24 19:27		Kareem	OK
36	P5057-10	MBHL10	SAM	12/17/24 19:31		Kareem	OK
37	P5057-11	MBHL11	SAM	12/17/24 19:35		Kareem	OK

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CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

38	P5057-12	MBHL12	SAM	12/17/24 19:39		Kareem	OK
39	P5057-13	MBHL13	SAM	12/17/24 19:43		Kareem	OK
40	P5057-14	MBHL14	SAM	12/17/24 19:47		Kareem	OK
41	P5057-15	MBHL15	SAM	12/17/24 19:51		Kareem	OK
42	P5057-16	MBHL16	SAM	12/17/24 19:55		Kareem	OK
43	P5057-17	MBHL17	SAM	12/17/24 19:58		Kareem	OK
44	P5057-18	MBHL18	SAM	12/17/24 20:02		Kareem	OK
45	P5057-19	MBHL19	SAM	12/17/24 20:06		Kareem	OK
46	P5057-20	MBHL20	SAM	12/17/24 20:10		Kareem	OK
47	P5057-21	MBHL21	SAM	12/17/24 20:14		Kareem	OK
48	P5057-22	MBHL22	SAM	12/17/24 20:18		Kareem	OK
49	P5060-01	MBHKR8	SAM	12/17/24 20:21		Kareem	OK
50	P5060-02	MBHKR8D	DUP	12/17/24 20:25		Kareem	OK
51	P5060-01L	MBHKR8L	SD	12/17/24 20:29		Kareem	OK
52	P5060-03	MBHKR8S	MS	12/17/24 20:33	Fail for Se(51.4259ppb),Tl(Below RL),Zn(1975.059ppb)	Kareem	OK
53	P5060-04	MBHKW4	SAM	12/17/24 20:37	Ca high	Kareem	Dilution
54	P5060-05	MBHKY6	SAM	12/17/24 20:41		Kareem	OK
55	P5060-06	MBHKY7	SAM	12/17/24 20:44		Kareem	OK
56	CCV051	CCV051	CCV	12/17/24 20:48		Kareem	OK

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ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

57	CCB051	CCB051	CCB	12/17/24 20:52		Kareem	OK
58	P5060-07	MBHKY8	SAM	12/17/24 20:56		Kareem	OK
59	P5060-08	MBHKY9	SAM	12/17/24 21:00		Kareem	OK
60	P5060-09	MBHKZ0	SAM	12/17/24 21:04		Kareem	OK
61	P5060-10	MBHKZ1	SAM	12/17/24 21:07		Kareem	OK
62	P5060-11	MBHKZ2	SAM	12/17/24 21:11		Kareem	OK
63	P5060-12	MBHL56	SAM	12/17/24 21:15		Kareem	OK
64	P5060-13	MBHL57	SAM	12/17/24 21:19		Kareem	OK
65	P5060-14	MBHKX1	SAM	12/17/24 21:23	Ca high	Kareem	Dilution
66	P5060-15	MBHKX2	SAM	12/17/24 21:27		Kareem	OK
67	P5060-16	MBHKX3	SAM	12/17/24 21:30		Kareem	OK
68	P5060-17	MBHKX4	SAM	12/17/24 21:34		Kareem	OK
69	P5060-18	MBHKX6	SAM	12/17/24 21:38	Ca high	Kareem	Dilution
70	P5060-19	MBHKX7	SAM	12/17/24 21:42	Ca high	Kareem	Dilution
71	P5060-20	MBHKX8	SAM	12/17/24 21:46		Kareem	OK
72	P5060-21	MBHL58	SAM	12/17/24 21:50	Ca high	Kareem	Dilution
73	P5060-22	MBHL59	SAM	12/17/24 21:54		Kareem	OK
74	P5062-01	MBHKZ7	SAM	12/17/24 21:57	Ca high	Kareem	Dilution
75	P5062-02	MBHKZ8	SAM	12/17/24 22:01	Ca high	Kareem	Dilution
76	P5062-03	MBHKZ9	SAM	12/17/24 22:05	Ca high	Kareem	Dilution

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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	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

77	P5062-04	MBHL00	SAM	12/17/24 22:09		Kareem	OK
78	CCV052	CCV052	CCV	12/17/24 22:13		Kareem	OK
79	CCB052	CCB052	CCB	12/17/24 22:16		Kareem	OK
80	P5062-05	MBHL01	SAM	12/17/24 22:20		Kareem	OK
81	P5062-06	MBHL02	SAM	12/17/24 22:24		Kareem	OK
82	P5062-07	MBHL02D	DUP	12/17/24 22:28		Kareem	OK
83	P5062-06L	MBHL02L	SD	12/17/24 22:32		Kareem	OK
84	P5062-08	MBHL02S	MS	12/17/24 22:36	Fail for Tl(Below RL)	Kareem	OK
85	P5062-09	MBHL23	SAM	12/17/24 22:40		Kareem	OK
86	P5062-10	MBHL24	SAM	12/17/24 22:44	Ca high	Kareem	Dilution
87	P5062-11	MBHL25	SAM	12/17/24 22:48		Kareem	OK
88	P5062-12	MBHL26	SAM	12/17/24 22:51		Kareem	OK
89	P5062-13	MBHL27	SAM	12/17/24 22:55	Ca high	Kareem	Dilution
90	P5062-14	MBHL68	SAM	12/17/24 22:59	Ca high	Kareem	Dilution
91	P5062-15	MBHL69	SAM	12/17/24 23:03		Kareem	OK
92	P5062-16	MBHLC8	SAM	12/17/24 23:07		Kareem	OK
93	P5062-17	MBHLC9	SAM	12/17/24 23:11		Kareem	OK
94	P5062-18	MBHLD0	SAM	12/17/24 23:15		Kareem	OK
95	P5062-19	MBHLD1	SAM	12/17/24 23:18		Kareem	OK
96	P5062-20	MBHLD2	SAM	12/17/24 23:22	Mn high	Kareem	Dilution

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133990

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Supervise By	Sarabjit Jaswal	Supervise On	1/6/2025 8:51:01 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	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

97	P5062-21	MBHLD3	SAM	12/17/24 23:26		Kareem	OK
98	P5062-22	MBHLD4	SAM	12/17/24 23:30		Kareem	OK
99	P5055-01	MBHKS4	SAM	12/17/24 23:34		Kareem	OK
100	CCV053	CCV053	CCV	12/17/24 23:38		Kareem	OK
101	CCB053	CCB053	CCB	12/17/24 23:41		Kareem	OK
102	P5055-02	MBHKS5	SAM	12/17/24 23:45		Kareem	OK
103	P5055-03	MBHKS6	SAM	12/17/24 23:49		Kareem	OK
104	P5055-04	MBHKS7	SAM	12/17/24 23:53		Kareem	OK
105	P5055-05	MBHKS8	SAM	12/17/24 23:57		Kareem	OK
106	P5055-06	MBHKS9	SAM	12/18/24 00:01		Kareem	OK
107	P5055-07	MBHKT0	SAM	12/18/24 00:04	Ca high	Kareem	Dilution
108	P5055-08	MBHKT1	SAM	12/18/24 00:08	Ca high	Kareem	Dilution
109	P5055-09	MBHKT2	SAM	12/18/24 00:12	Ca high	Kareem	Dilution
110	P5055-10	MBHKT3	SAM	12/18/24 00:16		Kareem	OK
111	P5055-11	MBHKT3D	DUP	12/18/24 00:20		Kareem	OK
112	P5055-10L	MBHKT3L	SD	12/18/24 00:24		Kareem	OK
113	P5055-12	MBHKT3S	MS	12/18/24 00:28	Fail for Se(53.3445ppb),Tl(Below RL),Zn(873.9927ppb)	Kareem	OK
114	P5055-13	MBHKT4	SAM	12/18/24 00:31		Kareem	OK
115	P5055-14	MBHKT5	SAM	12/18/24 00:35	Ca high	Kareem	Dilution

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ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

116	P5055-15	MBHKT6	SAM	12/18/24 00:39	Ca high	Kareem	Dilution
117	P5055-16	MBHKT7	SAM	12/18/24 00:43	Ca high	Kareem	Dilution
118	P5055-17	MBHKW5	SAM	12/18/24 00:47		Kareem	OK
119	P5055-18	MBHKW6	SAM	12/18/24 00:51		Kareem	OK
120	P5055-19	MBHKW7	SAM	12/18/24 00:55		Kareem	OK
121	P5055-20	MBHKW8	SAM	12/18/24 00:58	Ca high	Kareem	Dilution
122	CCV054	CCV054	CCV	12/18/24 01:02		Kareem	OK
123	CCB054	CCB054	CCB	12/18/24 01:06		Kareem	OK
124	P5055-21	MBHKW9	SAM	12/18/24 01:10	Ca high	Kareem	Dilution
125	P5055-22	MBHKX0	SAM	12/18/24 01:14	Ca high	Kareem	Dilution
126	P5064-01	MBHL94	SAM	12/18/24 01:18		Kareem	OK
127	P5064-02	MBHL95	SAM	12/18/24 01:21		Kareem	OK
128	P5064-03	MBHL96	SAM	12/18/24 01:25		Kareem	OK
129	P5064-04	MBHL97	SAM	12/18/24 01:29	Ca high	Kareem	Dilution
130	P5064-05	MBHLA5	SAM	12/18/24 01:33		Kareem	OK
131	P5064-06	MBHLA6	SAM	12/18/24 01:37		Kareem	OK
132	P5064-07	MBHLA7	SAM	12/18/24 01:41		Kareem	OK
133	P5064-08	MBHLA8	SAM	12/18/24 01:44		Kareem	OK
134	P5064-09	MBHLA9	SAM	12/18/24 01:48		Kareem	OK
135	P5064-10	MBHLB0	SAM	12/18/24 01:52		Kareem	OK

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CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

136	P5064-11	MBHLB1	SAM	12/18/24 01:56		Kareem	OK
137	P5064-12	MBHLB2	SAM	12/18/24 02:00		Kareem	OK
138	P5064-13	MBHLB3	SAM	12/18/24 02:04		Kareem	OK
139	P5064-14	MBHLB4	SAM	12/18/24 02:07		Kareem	OK
140	P5064-15	MBHLB5	SAM	12/18/24 02:11		Kareem	OK
141	P5064-16	MBHLB6	SAM	12/18/24 02:15		Kareem	OK
142	P5064-17	MBHLB7	SAM	12/18/24 02:19		Kareem	OK
143	P5064-18	MBHLB8	SAM	12/18/24 02:23		Kareem	OK
144	CCV055	CCV055	CCV	12/18/24 02:27		Kareem	OK
145	CCB055	CCB055	CCB	12/18/24 02:30		Kareem	OK
146	P5064-19	MBHLB8D	DUP	12/18/24 02:34		Kareem	OK
147	P5064-18L	MBHLB8L	SD	12/18/24 02:38		Kareem	OK
148	P5064-20	MBHLB8S	MS	12/18/24 02:42	Fail for Se(84.5356ppb),Tl(Below RL)	Kareem	OK
149	P5064-21	MBHLB9	SAM	12/18/24 02:46		Kareem	OK
150	P5064-22	MBHLC0	SAM	12/18/24 02:50		Kareem	OK
151	P5061-01	MBHL48	SAM	12/18/24 02:54	Not Use	Kareem	Not Ok
152	P5061-02	MBHL49	SAM	12/18/24 02:58	Not Use	Kareem	Not Ok
153	P5061-03	MBHL50	SAM	12/18/24 03:01	Not Use	Kareem	Not Ok
154	P5061-04	MBHL51	SAM	12/18/24 03:05	Not Use	Kareem	Not Ok

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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	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

155	P5061-05	MBHL52	SAM	12/18/24 03:09	Not Use	Kareem	Not Ok
156	P5061-06	MBHL52D	DUP	12/18/24 03:13	Not Use	Kareem	Not Ok
157	P5061-05L	MBHL52L	SD	12/18/24 03:17	Not Use	Kareem	Not Ok
158	P5061-07	MBHL52S	MS	12/18/24 03:21	Not Use	Kareem	Not Ok
159	P5061-08	MBHL53	SAM	12/18/24 03:25	Not Use	Kareem	Not Ok
160	P5061-09	MBHL54	SAM	12/18/24 03:28	Not Use	Kareem	Not Ok
161	P5061-10	MBHL55	SAM	12/18/24 03:32	Not Use	Kareem	Not Ok
162	P5061-11	MBHL60	SAM	12/18/24 03:36	Not Use	Kareem	Not Ok
163	P5061-12	MBHL61	SAM	12/18/24 03:40	Not Use	Kareem	Not Ok
164	P5061-13	MBHL62	SAM	12/18/24 03:44	Not Use	Kareem	Not Ok
165	P5061-14	MBHL63	SAM	12/18/24 03:48	Not Use	Kareem	Not Ok
166	CCV056	CCV056	CCV	12/18/24 03:52		Kareem	OK
167	CCB056	CCB056	CCB	12/18/24 03:55		Kareem	OK
168	P5061-15	MBHL64	SAM	12/18/24 03:59	Not Use	Kareem	Not Ok
169	P5061-16	MBHL65	SAM	12/18/24 04:03	Not Use	Kareem	Not Ok
170	P5061-17	MBHL66	SAM	12/18/24 04:07	Not Use	Kareem	Not Ok
171	P5061-18	MBHL67	SAM	12/18/24 04:11	Not Use	Kareem	Not Ok
172	P5061-19	MBHKZ3	SAM	12/18/24 04:14	Not Use	Kareem	Not Ok
173	P5061-20	MBHKZ4	SAM	12/18/24 04:18	Not Use	Kareem	Not Ok
174	P5061-21	MBHKZ5	SAM	12/18/24 04:22	Not Use	Kareem	Not 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 # LB133990

Review By	Kareem Khairalla	Review On	12/19/2024 12:28:16 AM
Supervise By	Sarabjit Jaswal	Supervise On	1/6/2025 8:51:01 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	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

175	P5061-22	MBHKZ6	SAM	12/18/24 04:26	Not Use	Kareem	Not Ok
176	PB165505BL	PBS505	MB	12/18/24 04:30	Not used	Kareem	Not Ok
177	PB165505BS	LCS505	LCS	12/18/24 04:34	Not used	Kareem	Not Ok
178	P5059-01	MBHL70	SAM	12/18/24 04:38	Not used	Kareem	Not Ok
179	P5059-02	MBHL71	SAM	12/18/24 04:42	Not used	Kareem	Not Ok
180	P5059-03	MBHL72	SAM	12/18/24 04:45	Not used	Kareem	Not Ok
181	P5059-04	MBHL73	SAM	12/18/24 04:49	Not used	Kareem	Not Ok
182	P5059-05	MBHL74	SAM	12/18/24 04:53	Not used	Kareem	Not Ok
183	P5059-06	MBHL75	SAM	12/18/24 04:57	Not used	Kareem	Not Ok
184	P5059-07	MBHL76	SAM	12/18/24 05:01	Not used	Kareem	Not Ok
185	P5059-08	MBHL91	SAM	12/18/24 05:05	Not used	Kareem	Not Ok
186	P5059-09	MBHL92	SAM	12/18/24 05:08	Not used	Kareem	Not Ok
187	P5059-10	MBHL93	SAM	12/18/24 05:12	Not used	Kareem	Not Ok
188	CCV057	CCV057	CCV	12/18/24 05:16		Kareem	OK
189	CCB057	CCB057	CCB	12/18/24 05:20		Kareem	OK
190	P5059-11	MBHLC1	SAM	12/18/24 05:24	Not used	Kareem	Not Ok
191	P5059-12	MBHLC2	SAM	12/18/24 05:28	Not used	Kareem	Not Ok
192	P5059-13	MBHLC3	SAM	12/18/24 05:32	Not used	Kareem	Not Ok
193	P5059-14	MBHLC4	SAM	12/18/24 05:35	Not used	Kareem	Not Ok
194	P5059-15	MBHLC4D	DUP	12/18/24 05:39	Not used	Kareem	Not Ok

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133990

Review By	Kareem Khairalla	Review On	12/19/2024 12:28:16 AM
Supervise By	Sarabjit Jaswal	Supervise On	1/6/2025 8:51:01 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	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

195	P5059-14L	MBHLC4L	SD	12/18/24 05:43	Not used	Kareem	Not Ok
196	P5059-16	MBHLC4S	MS	12/18/24 05:47	Not used	Kareem	Not Ok
197	P5059-17	MBHLC5	SAM	12/18/24 05:51	Not used	Kareem	Not Ok
198	P5059-18	MBHLD5	SAM	12/18/24 05:55	Not used	Kareem	Not Ok
199	P5059-19	MBHLD6	SAM	12/18/24 05:59	Not used	Kareem	Not Ok
200	PB165494BL	PBS494	MB	12/18/24 06:03	Not used	Kareem	Not Ok
201	PB165494BS	LCS494	LCS	12/18/24 06:07	Not used	Kareem	Not Ok
202	P5058-01	MBHL80	SAM	12/18/24 06:11	Not Use	Kareem	Not Ok
203	P5058-02	MBHL81	SAM	12/18/24 06:14	Not Use	Kareem	Not Ok
204	P5058-03	MBHL82	SAM	12/18/24 06:18	Not Use	Kareem	Not Ok
205	P5058-04	MBHL82D	DUP	12/18/24 06:22	Not Use	Kareem	Not Ok
206	P5058-03L	MBHL82L	SD	12/18/24 06:26	Not Use	Kareem	Not Ok
207	P5058-05	MBHL82S	MS	12/18/24 06:30	Not Use	Kareem	Not Ok
208	P5058-06	MBHL83	SAM	12/18/24 06:34	Not Use	Kareem	Not Ok
209	P5058-07	MBHL84	SAM	12/18/24 06:38	Not Use	Kareem	Not Ok
210	CCV058	CCV058	CCV	12/18/24 06:41		Kareem	OK
211	CCB058	CCB058	CCB	12/18/24 06:45		Kareem	OK
212	P5058-08	MBHL85	SAM	12/18/24 06:49	Not Use	Kareem	Not Ok
213	P5058-09	MBHL86	SAM	12/18/24 06:53	Not Use	Kareem	Not Ok
214	P5058-10	MBHL87	SAM	12/18/24 06:57	Not Use	Kareem	Not Ok

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133990

Review By	Kareem Khairalla	Review On	12/19/2024 12:28:16 AM
Supervise By	Sarabjit Jaswal	Supervise On	1/6/2025 8:51:01 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	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

215	P5058-11	MBHL88	SAM	12/18/24 07:01	Not Use	Kareem	Not Ok
216	P5058-12	MBHL89	SAM	12/18/24 07:04	Not Use	Kareem	Not Ok
217	P5058-13	MBHL90	SAM	12/18/24 07:08	Not Use	Kareem	Not Ok
218	P5058-14	MBHL98	SAM	12/18/24 07:12	Not Use	Kareem	Not Ok
219	P5058-15	MBHL99	SAM	12/18/24 07:16	Not Use	Kareem	Not Ok
220	P5058-16	MBHLA0	SAM	12/18/24 07:20	Not Use	Kareem	Not Ok
221	P5058-17	MBHLA1	SAM	12/18/24 07:24	Not Use	Kareem	Not Ok
222	P5058-18	MBHLA2	SAM	12/18/24 07:28	Not Use	Kareem	Not Ok
223	P5058-19	MBHLA3	SAM	12/18/24 07:31	Not Use	Kareem	Not Ok
224	P5058-20	MBHLA4	SAM	12/18/24 07:35	Not Use	Kareem	Not Ok
225	P5058-21	MBHLC6	SAM	12/18/24 07:39	Not Use	Kareem	Not Ok
226	P5058-22	MBHLC7	SAM	12/18/24 07:43	Not Use	Kareem	Not Ok
227	PB165490BL	PBS490	MB	12/18/24 07:47	Not used	Kareem	Not Ok
228	PB165490BS	LCS490	LCS	12/18/24 07:51	Not used	Kareem	Not Ok
229	CCV059	CCV059	CCV	12/18/24 07:55		Kareem	OK
230	CCB059	CCB059	CCB	12/18/24 07:58		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134161

Review By	Sarabjit Jaswal	Review On	1/6/2025 4:37:53 AM
Supervise By	Mohan Bera	Supervise On	1/6/2025 4:38:30 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	MP83726,MP83745,M5819
LCS Standard	
Chk Standard	MP83513,MP83514

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	01/03/25 12:30		Kareem	OK
2	S1	S01	CAL2	01/03/25 12:34		Kareem	OK
3	S2	S02	CAL3	01/03/25 12:38		Kareem	OK
4	S3	S03	CAL4	01/03/25 12:42		Kareem	OK
5	S4	S04	CAL5	01/03/25 12:45		Kareem	OK
6	S5	S05	CAL6	01/03/25 12:49		Kareem	OK
7	S6	S06	CAL7	01/03/25 12:53		Kareem	OK
8	ICV051	ICV051	ICV	01/03/25 13:04	Inst. paused for Calibration review	Kareem	OK
9	ICB051	ICB051	ICB	01/03/25 13:08		Kareem	OK
10	ICSA051	ICSA051	ICSA	01/03/25 13:12		Kareem	OK
11	ICSAB051	ICSAB051	ICSAB	01/03/25 13:30	Inst. paused for review	Kareem	OK
12	CCV100	CCV100	CCV	01/03/25 13:34		Kareem	OK
13	CCB100	CCB100	CCB	01/03/25 13:37		Kareem	OK
14	PB165852BL	PBS852	MB	01/03/25 13:42	NOT USE	Kareem	Not Ok
15	PB165852BS	LCS852	LCS	01/03/25 13:46	NOT USE	Kareem	Not Ok
16	PB165860BL	PBS860	MB	01/03/25 13:50	NOT USE	Kareem	Not Ok
17	PB165861BL	PBS861	MB	01/03/25 13:58	NOT USE	Kareem	Not Ok
18	PB165860BS	LCS860	LCS	01/03/25 14:02	NOT USE	Kareem	Not Ok

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134161

Review By	Sarabjit Jaswal	Review On	1/6/2025 4:37:53 AM
Supervise By	Mohan Bera	Supervise On	1/6/2025 4:38:30 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	MP83726,MP83745,M5819
LCS Standard	
Chk Standard	MP83513,MP83514

19	PB165861BS	LCS861	LCS	01/03/25 14:06	NOT USE	Kareem	Not Ok
20	PB165841BL	PBS841	MB	01/03/25 14:10	NOT USE	Kareem	Not Ok
21	PB165841BS	LCS841	LCS	01/03/25 14:14	NOT USE	Kareem	Not Ok
22	PB165850BL	PBS850	MB	01/03/25 14:18	NOT USE	Kareem	Not Ok
23	PB165840BL	PBS840	MB	01/03/25 14:26	NOT USE	Kareem	Not Ok
24	PB165840BS	LCS840	LCS	01/03/25 14:34	NOT USE	Kareem	Not Ok
25	PB165850BS	LCS850	LCS	01/03/25 14:38	NOT USE	Kareem	Not Ok
26	PB165842BL	PBS842	MB	01/03/25 14:42	NOT USE	Kareem	Not Ok
27	PB165842BS	LCS842	LCS	01/03/25 14:46	NOT USE	Kareem	Not Ok
28	PB165891BL	PBS891	MB	01/03/25 14:50	NOT USE	Kareem	Not Ok
29	PB165891BS	LCS891	LCS	01/03/25 14:55	NOT USE	Kareem	Not Ok
30	PB165566BL	PBS566	MB	01/03/25 14:58	NOT USE	Kareem	Not Ok
31	PB165566BS	LCS566	LCS	01/03/25 15:03	NOT USE	Kareem	Not Ok
32	P5126-01	MBHM98	SAM	01/03/25 15:07	NOT USE	Kareem	Not Ok
33	CCV101	CCV101	CCV	01/03/25 15:10		Kareem	OK
34	CCB101	CCB101	CCB	01/03/25 15:14		Kareem	OK
35	P5126-02	MBHM99	SAM	01/03/25 15:18	NOT USE	Kareem	Not Ok
36	P5126-16	MBHMM9	SAM	01/03/25 15:22	NOT USE	Kareem	Not Ok
37	P5126-03	MBHMA0	SAM	01/03/25 15:26	NOT USE	Kareem	Not Ok
38	P5126-04	MBHMA0D	DUP	01/03/25 15:30	NOT USE	Kareem	Not Ok

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134161

Review By	Sarabjit Jaswal	Review On	1/6/2025 4:37:53 AM
Supervise By	Mohan Bera	Supervise On	1/6/2025 4:38:30 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	MP83726,MP83745,M5819
LCS Standard	
Chk Standard	MP83513,MP83514

39	P5126-03L	MBHMA0L	SD	01/03/25 15:33	NOT USE	Kareem	Not Ok
40	P5127-04	MBHMB1	SAM	01/03/25 15:37	NOT USE	Kareem	Not Ok
41	P5127-05	MBHMB1D	DUP	01/03/25 15:41	NOT USE	Kareem	Not Ok
42	P5127-04DL	MBHMB1	SAM	01/03/25 15:45	NOT USE	Kareem	Not Ok
43	P5127-06	MBHMB1S	MS	01/03/25 15:49	NOT USE	Kareem	Not Ok
44	P5128-19	MBHMK9	SAM	01/03/25 15:53	NOT USE	Kareem	Not Ok
45	P5128-20	MBHMK9D	DUP	01/03/25 15:57	NOT USE	Kareem	Not Ok
46	P5128-19L	MBHMK9L	SD	01/03/25 16:01	NOT USE	Kareem	Not Ok
47	P5128-21	MBHMK9S	MS	01/03/25 16:05	NOT USE	Kareem	Not Ok
48	P5122-12	MBHMC9	SAM	01/03/25 16:08	NOT USE	Kareem	Not Ok
49	P5122-13	MBHMC9D	DUP	01/03/25 16:12	NOT USE	Kareem	Not Ok
50	P5122-12L	MBHMC9L	SD	01/03/25 16:16	NOT USE	Kareem	Not Ok
51	P5122-14	MBHMC9S	MS	01/03/25 16:20	NOT USE	Kareem	Not Ok
52	P5124-19	MBHM88	SAM	01/03/25 16:24	NOT USE	Kareem	Not Ok
53	P5124-20	MBHM88D	DUP	01/03/25 16:27	NOT USE	Kareem	Not Ok
54	P5124-19L	MBHM88L	SD	01/03/25 16:31	NOT USE	Kareem	Not Ok
55	CCV102	CCV102	CCV	01/03/25 16:35		Kareem	OK
56	CCB102	CCB102	CCB	01/03/25 16:39		Kareem	OK
57	P5124-21	MBHM88S	MS	01/03/25 16:43	NOT USE	Kareem	Not Ok
58	P5121-10	MBHM51	SAM	01/03/25 16:47	NOT USE	Kareem	Not Ok

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134161

Review By	Sarabjit Jaswal	Review On	1/6/2025 4:37:53 AM
Supervise By	Mohan Bera	Supervise On	1/6/2025 4:38:30 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	MP83726,MP83745,M5819
LCS Standard	
Chk Standard	MP83513,MP83514

59	P5121-11	MBHM51D	DUP	01/03/25 16:50	NOT USE	Kareem	Not Ok
60	P5121-10L	MBHM51L	SD	01/03/25 16:54	NOT USE	Kareem	Not Ok
61	P5121-12	MBHM51S	MS	01/03/25 16:58	NOT USE	Kareem	Not Ok
62	P5129-01	MBHMK3	SAM	01/03/25 17:02	NOT USE	Kareem	Not Ok
63	P5129-02	MBHMK3D	DUP	01/03/25 17:06	NOT USE	Kareem	Not Ok
64	P5129-01L	MBHMK3L	SD	01/03/25 17:09	NOT USE	Kareem	Not Ok
65	P5129-03	MBHMK3S	MS	01/03/25 17:13	NOT USE	Kareem	Not Ok
66	P5352-04	ME2926	SAM	01/03/25 17:17	NOT USE	Kareem	Not Ok
67	P5352-05	ME2926D	DUP	01/03/25 17:21	NOT USE	Kareem	Not Ok
68	P5352-04L	ME2926L	SD	01/03/25 17:25	NOT USE	Kareem	Not Ok
69	P5352-06	ME2926S	MS	01/03/25 17:29	NOT USE	Kareem	Not Ok
70	P5201-19	MBHNE7	SAM	01/03/25 17:32	NOT USE	Kareem	Not Ok
71	P5201-20	MBHNE7D	DUP	01/03/25 17:36	NOT USE	Kareem	Not Ok
72	P5201-19L	MBHNE7L	SD	01/03/25 17:40	NOT USE	Kareem	Not Ok
73	P5201-21	MBHNE7S	MS	01/03/25 17:44	NOT USE	Kareem	Not Ok
74	P5212-05	MBHNF3	SAM	01/03/25 17:48	NOT USE	Kareem	Not Ok
75	P5212-06	MBHNF3D	DUP	01/03/25 17:51	NOT USE	Kareem	Not Ok
76	P5212-05L	MBHNF3L	SD	01/03/25 17:55	NOT USE	Kareem	Not Ok
77	CCV103	CCV103	CCV	01/03/25 17:59		Kareem	OK
78	CCB103	CCB103	CCB	01/03/25 18:03		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134161

Review By	Sarabjit Jaswal	Review On	1/6/2025 4:37:53 AM
Supervise By	Mohan Bera	Supervise On	1/6/2025 4:38:30 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	MP83726,MP83745,M5819
LCS Standard	
Chk Standard	MP83513,MP83514

79	P5212-07	MBHNF3S	MS	01/03/25 18:07	NOT USE	Kareem	Not Ok
80	P5126-05	MBHMA0S	MS	01/03/25 18:11	NOT USE	Kareem	Not Ok
81	P5054-03A	MBHKR2A	PS	01/03/25 18:14	PS For Cu-0.0075-M5697,Zn-0.032-M5819,Tl-0.05-MP83745 -10 ml Sample	Kareem	OK
82	P5055-10A	MBHKT3A	PS	01/03/25 18:18	PS for Se-0.01 - MP83726,tl-0.05-MP83745, zn-0.018-M5819-10ml sample	Kareem	OK
83	P5057-07A	MBHL09A	PS	01/03/25 18:22	PS for Se-0.017-MP83726,Tl-0.05 -MP83745,Zn-0.033-M5819-10 ml sample	Kareem	OK
84	P5058-03A	MBHL82A	PS	01/03/25 18:26	PS For Tl-0.05 - MP83745 - 10ml Sample	Kareem	OK
85	P5060-01A	MBHKR8A	PS	01/03/25 18:30	PS For SE-0.01ML-MP83726,TL-0.05ML-MP83745,ZN-0.04ML-M5819-10 ml Sample	Kareem	OK
86	P5062-06A	MBHL02A	PS	01/03/25 18:33	PS For Tl-0.05 - MP83745 - 10ml Sample	Kareem	OK
87	P5064-18A	MBHLB8A	PS	01/03/25 18:37	PS For SE-0.017ML-MP83726 - 10ml Sample	Kareem	OK
88	P5071-01A	MBHKX5A	PS	01/03/25 18:41	PS for CU-0.017ML-M5697,SE-0.008ML-MP83726,ZN-0.011ML-M5819,TL-0.05ML-MP83745-10 ml Sample	Kareem	OK

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Fax : 908 789 8922

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134161

Review By	Sarabjit Jaswal	Review On	1/6/2025 4:37:53 AM
Supervise By	Mohan Bera	Supervise On	1/6/2025 4:38:30 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	MP83726,MP83745,M5819
LCS Standard	
Chk Standard	MP83513,MP83514

89	P5079-10A	MBHLF8A	PS	01/03/25 18:45	PS For cu-0.0045-M5697,se-0.007 -MP83726,tl-0.05-MP8374 5-10 ml Sample	Kareem	OK
90	P5080-10A	MBHLE8A	PS	01/03/25 18:49	PS for As,Se,Tl	Kareem	OK
91	P5081-05A	MBHLG4A	PS	01/03/25 18:53	PS For BE-0.014ML-MP83672,CU-0.0055ML-M5697,SE-0.012ML-MP83726,V-0.0036ML-M6021,ZN-0.02ML-M5819,TL-0.05ML-MP83745 - 10ml Sample	Kareem	OK
92	P5082-06A	MBHLL6A	PS	01/03/25 18:56	PS For AS-0.026ML-MP83728,TL-0.05ML-MP83745 - 10 ml Sample	Kareem	OK
93	P5087-07A	MBHLY4DA	PS	01/03/25 19:00	PS for BA-0.02ML-M5390,BE-0.015ML-MP83672,CU-0.0073ML-M5697,SE-0.018ML-MP83726,TL-0.05ML-MP83745,ZN-0.016ML-M5819-10 ml Sample	Kareem	OK
94	P5092-04A	MBHLP3A	PS	01/03/25 19:04	PS for SE-0.016ML-MP83726,TL-0.05ML-MP83745,ZN-0.018ML-M5819- 10 ml Sample	Kareem	OK
95	P5125-05A	MBHM94A	PS	01/03/25 19:08	PS for CU-0.012ML-M5697,SE-0.021ML-MP83726,ZN-0.065ML-M5819,TL-0.05ML-MP83745 - 10 ml Sample	Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134161

Review By	Sarabjit Jaswal	Review On	1/6/2025 4:37:53 AM
Supervise By	Mohan Bera	Supervise On	1/6/2025 4:38:30 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	MP83726,MP83745,M5819
LCS Standard	
Chk Standard	MP83513,MP83514

96	P5131-07A	MBHMM6A	PS	01/03/25 19:12	PS for AS-0.004ML-M5801,CU-0.0069ML-M5697,SE-0.022ML-MP83726,TL-0.05ML-MP83745,ZN-0.055ML-M5819 - 10 ml Sample	Kareem	OK
97	P5126-06	MBHMA1	SAM	01/03/25 19:15		Kareem	OK
98	P5126-07	MBHMA2	SAM	01/03/25 19:19		Kareem	OK
99	CCV104	CCV104	CCV	01/03/25 19:23		Kareem	OK
100	CCB104	CCB104	CCB	01/03/25 19:27		Kareem	OK
101	P5126-08	MBHMA3	SAM	01/03/25 19:31		Kareem	OK
102	P5126-09	MBHMA4	SAM	01/03/25 19:35		Kareem	OK
103	P5126-10	MBHMA5	SAM	01/03/25 19:38		Kareem	OK
104	P5126-11	MBHMA6	SAM	01/03/25 19:42		Kareem	OK
105	P5126-12	MBHMA7	SAM	01/03/25 19:46		Kareem	OK
106	P5126-13	MBHMF2	SAM	01/03/25 19:50		Kareem	OK
107	P5126-14	MBHMF3	SAM	01/03/25 19:53		Kareem	OK
108	P5126-15	MBHMM8	SAM	01/03/25 19:57		Kareem	OK
109	P5127-01	MBHMA8	SAM	01/03/25 20:01		Kareem	OK
110	P5127-02	MBHMA9	SAM	01/03/25 20:05		Kareem	OK
111	P5127-03	MBHMB0	SAM	01/03/25 20:09	Ca high	Kareem	Dilution
112	P5127-07	MBHMB9	SAM	01/03/25 20:12		Kareem	OK
113	P5127-08	MBHMC0	SAM	01/03/25 20:16		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134161

Review By	Sarabjit Jaswal	Review On	1/6/2025 4:37:53 AM
Supervise By	Mohan Bera	Supervise On	1/6/2025 4:38:30 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	MP83726,MP83745,M5819
LCS Standard	
Chk Standard	MP83513,MP83514

114	P5127-09	MBHMC1	SAM	01/03/25 20:20		Kareem	OK
115	P5127-10	MBHMC2	SAM	01/03/25 20:24		Kareem	OK
116	P5127-11	MBHMC3	SAM	01/03/25 20:28		Kareem	OK
117	P5127-12	MBHMC4	SAM	01/03/25 20:31		Kareem	OK
118	P5127-13	MBHMC5	SAM	01/03/25 20:35		Kareem	OK
119	P5127-14	MBHMD7	SAM	01/03/25 20:39		Kareem	OK
120	P5127-15	MBHMD8	SAM	01/03/25 20:43		Kareem	OK
121	CCV105	CCV105	CCV	01/03/25 20:47		Kareem	OK
122	CCB105	CCB105	CCB	01/03/25 20:50		Kareem	OK
123	PB165506BL	PBS506	MB	01/03/25 20:54		Kareem	OK
124	PB165506BS	LCS506	LCS	01/03/25 20:58		Kareem	OK
125	PB165632BL	PBS632	MB	01/03/25 21:02		Kareem	OK
126	PB165632BS	LCS632	LCS	01/03/25 21:06		Kareem	OK
127	PB165726BL	PBS726	MB	01/03/25 21:10		Kareem	OK
128	PB165726BS	LCS726	LCS	01/03/25 21:14		Kareem	OK
129	PB165741BL	PBS741	MB	01/03/25 21:18		Kareem	OK
130	PB165741BS	LCS741	LCS	01/03/25 21:22		Kareem	OK
131	P5058-03DL	MBHL82	SAM	01/03/25 21:26	2x for Ca	Kareem	Confirms
132	P5058-04DL	MBHL82D	DUP	01/03/25 21:30	2x for Ca	Kareem	Confirms
133	P5058-03LDL	MBHL82L	SD	01/03/25 21:34	10x for Ca	Kareem	Confirms

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134161

Review By	Sarabjit Jaswal	Review On	1/6/2025 4:37:53 AM
Supervise By	Mohan Bera	Supervise On	1/6/2025 4:38:30 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	MP83726,MP83745,M5819
LCS Standard	
Chk Standard	MP83513,MP83514

134	P5058-05DL	MBHL82S	MS	01/03/25 21:38	2x for Ca	Kareem	Confirms
135	P5058-06DL	MBHL83	SAM	01/03/25 21:42	2x for Ca	Kareem	Confirms
136	P5058-20DL	MBHLA4	SAM	01/03/25 21:45	2x for Ca	Kareem	Confirms
137	P5054-20DL	MBHKW2	SAM	01/03/25 21:49	5x for Ca	Kareem	Confirms
138	P5054-21DL	MBHKW3	SAM	01/03/25 21:53	2x for Ca	Kareem	Confirms
139	P5056-20	MBHL47	SAM	01/03/25 21:57	Ca high	Kareem	Dilution
140	P5056-21	MBHL47D	DUP	01/03/25 22:01	Ca high	Kareem	Dilution
141	P5056-20L	MBHL47L	SD	01/03/25 22:05	Ca high	Kareem	Dilution
142	P5056-22	MBHL47S	MS	01/03/25 22:09	Ca high	Kareem	Dilution
143	CCV106	CCV106	CCV	01/03/25 22:13		Kareem	OK
144	CCB106	CCB106	CCB	01/03/25 22:16		Kareem	OK
145	P5056-07DL	MBHKY5	SAM	01/03/25 22:20	2X for Ca	Kareem	Confirms
146	P5056-12DL	MBHL39	SAM	01/03/25 22:24	2X for Ca	Kareem	Confirms
147	P5056-13DL	MBHL40	SAM	01/03/25 22:28	2X for Ca	Kareem	Confirms
148	P5056-14DL	MBHL41	SAM	01/03/25 22:32	2X for Ca	Kareem	Confirms
149	P5057-04DL	MBHL06	SAM	01/03/25 22:36	2X for Ca	Kareem	Confirms
150	P5055-07DL	MBHKT0	SAM	01/03/25 22:40	2X for Ca	Kareem	Confirms
151	P5055-08DL	MBHKT1	SAM	01/03/25 22:43	2X for Ca	Kareem	Confirms
152	P5055-09DL	MBHKT2	SAM	01/03/25 22:47	2X for Ca	Kareem	Confirms
153	P5055-14DL	MBHKT5	SAM	01/03/25 22:51	2X for Ca	Kareem	Confirms

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134161

Review By	Sarabjit Jaswal	Review On	1/6/2025 4:37:53 AM
Supervise By	Mohan Bera	Supervise On	1/6/2025 4:38:30 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	MP83726,MP83745,M5819
LCS Standard	
Chk Standard	MP83513,MP83514

154	P5055-15DL	MBHKT6	SAM	01/03/25 22:55	NOT USE	Kareem	Not Ok
155	P5055-16DL	MBHKT7	SAM	01/03/25 22:59	2X for Ca	Kareem	Confirms
156	P5055-20DL	MBHKW8	SAM	01/03/25 23:03	2X for Ca	Kareem	Confirms
157	P5055-21DL	MBHKW9	SAM	01/03/25 23:07	5X for Ca	Kareem	Confirms
158	P5055-22DL	MBHKX0	SAM	01/03/25 23:10	2X for Ca	Kareem	Confirms
159	P5064-04DL	MBHL97	SAM	01/03/25 23:14	2X for Ca	Kareem	Confirms
160	P5061-05DL	MBHL52	SAM	01/03/25 23:18	2X for Ca	Kareem	Confirms
161	P5061-06DL	MBHL52D	DUP	01/03/25 23:22	2X for Ca	Kareem	Confirms
162	P5061-05LDL	MBHL52L	SD	01/03/25 23:26	10X for Ca	Kareem	Confirms
163	P5061-07DL	MBHL52S	MS	01/03/25 23:30	2X for Ca	Kareem	Confirms
164	P5061-08DL	MBHL53	SAM	01/03/25 23:34	2X for Ca	Kareem	Confirms
165	CCV107	CCV107	CCV	01/03/25 23:38		Kareem	OK
166	CCB107	CCB107	CCB	01/03/25 23:41		Kareem	OK
167	P5061-09DL	MBHL54	SAM	01/03/25 23:45	2X for Ca	Kareem	Confirms
168	P5061-11DL	MBHL60	SAM	01/03/25 23:49	2X for Ca	Kareem	Confirms
169	P5061-22DL	MBHKZ6	SAM	01/03/25 23:53	2X for Ca	Kareem	Confirms
170	P5061-15DL	MBHL64	SAM	01/03/25 23:57	5X for Mn	Kareem	Confirms
171	P5079-06DL	MBHLF4	SAM	01/04/25 00:01	NOT USE	Kareem	Not Ok
172	P5079-21DL	MBHLH4	SAM	01/04/25 00:05	2X for Ba	Kareem	Confirms
173	P5060-04DL	MBHKW4	SAM	01/04/25 00:08	2X for Ca	Kareem	Confirms

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134161

Review By	Sarabjit Jaswal	Review On	1/6/2025 4:37:53 AM
Supervise By	Mohan Bera	Supervise On	1/6/2025 4:38:30 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	MP83726,MP83745,M5819
LCS Standard	
Chk Standard	MP83513,MP83514

174	P5060-14DL	MBHKX1	SAM	01/04/25 00:12	2X for Ca	Kareem	Confirms
175	P5060-18DL	MBHKX6	SAM	01/04/25 00:16	2X for Ca	Kareem	Confirms
176	P5060-19DL	MBHKX7	SAM	01/04/25 00:20	2X for Ca	Kareem	Confirms
177	P5060-21DL	MBHL58	SAM	01/04/25 00:24	2X for Ca	Kareem	Confirms
178	P5062-01DL	MBHKZ7	SAM	01/04/25 00:28	NOT USE	Kareem	Not Ok
179	P5062-02DL	MBHKZ8	SAM	01/04/25 00:31	NOT USE	Kareem	Not Ok
180	P5062-03DL	MBHKZ9	SAM	01/04/25 00:35	2X for Ca	Kareem	Confirms
181	P5062-10DL	MBHL24	SAM	01/04/25 00:39	2X for Ca	Kareem	Confirms
182	P5062-13DL	MBHL27	SAM	01/04/25 00:43	2X for Ca	Kareem	Confirms
183	P5062-14DL	MBHL68	SAM	01/04/25 00:47	2X for Ca	Kareem	Confirms
184	P5062-20DL	MBHLD2	SAM	01/04/25 00:51	2X for Mn	Kareem	Confirms
185	P5062-11DL	MBHL25	SAM	01/04/25 00:55	NOT USE	Kareem	Not Ok
186	P5081-02DL	MBHLG1	SAM	01/04/25 00:58	2X for Ca	Kareem	Confirms
187	CCV108	CCV108	CCV	01/04/25 01:02		Kareem	OK
188	CCB108	CCB108	CCB	01/04/25 01:06		Kareem	OK
189	P5081-03DL	MBHLG2	SAM	01/04/25 01:10	2X for Ca	Kareem	Confirms
190	P5091-01DL	MBHLR4	SAM	01/04/25 01:14	2X for Ca	Kareem	Confirms
191	P5091-02DL	MBHLR5	SAM	01/04/25 01:18	2X for Ca	Kareem	Confirms
192	P5091-03DL	MBHLR6	SAM	01/04/25 01:21	2X for Ca	Kareem	Confirms
193	P5091-11DL	MBHLS2	SAM	01/04/25 01:25	2X for Ca	Kareem	Confirms

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134161

Review By	Sarabjit Jaswal	Review On	1/6/2025 4:37:53 AM
Supervise By	Mohan Bera	Supervise On	1/6/2025 4:38:30 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	MP83726,MP83745,M5819
LCS Standard	
Chk Standard	MP83513,MP83514

194	P5091-12DL	MBHLS3	SAM	01/04/25 01:29	2X for Ca	Kareem	Confirms
195	P5091-13DL	MBHLS4	SAM	01/04/25 01:33	2X for Ca	Kareem	Confirms
196	P5091-18DL	MBHLS9	SAM	01/04/25 01:37	2X for Ca	Kareem	Confirms
197	P5091-19DL	MBHLT0	SAM	01/04/25 01:41	2X for Ca	Kareem	Confirms
198	P5091-20DL	MBHLT1	SAM	01/04/25 01:45	4X for Ca	Kareem	Confirms
199	P5082-03DL	MBHLL3	SAM	01/04/25 01:48	2X for Ca	Kareem	Confirms
200	P5087-18DL	MBHM34	SAM	01/04/25 01:52	4X for Ca	Kareem	Confirms
201	P5086-14DL	MBHLN7	SAM	01/04/25 01:56	2X for Ca	Kareem	Confirms
202	P5086-15DL	MBHLN8	SAM	01/04/25 02:00	4X for Ca	Kareem	Confirms
203	P5086-16DL	MBHLN9	SAM	01/04/25 02:04	not use	Kareem	Not Ok
204	P5084-05DL	MBHLW9	SAM	01/04/25 02:08	2X for Ca	Kareem	Confirms
205	P5084-06DL	MBHLX0	SAM	01/04/25 02:12	2X for Ca	Kareem	Confirms
206	P5084-07DL	MBHLX1	SAM	01/04/25 02:16	2X for Ca	Kareem	Confirms
207	P5084-08DL	MBHLX2	SAM	01/04/25 02:20	5X for Ca	Kareem	Confirms
208	P5084-18DL	MBHM32	SAM	01/04/25 02:24	2X for Ca	Kareem	Confirms
209	CCV109	CCV109	CCV	01/04/25 02:27		Kareem	OK
210	CCB109	CCB109	CCB	01/04/25 02:31		Kareem	OK
211	P5083-14DL	MBHLM3	SAM	01/04/25 02:35	2X for Ca	Kareem	Confirms
212	P5083-15DL	MBHLM4	SAM	01/04/25 02:39	4X for Ca	Kareem	Confirms
213	P5083-16DL	MBHLM5	SAM	01/04/25 02:43	4X for Ca	Kareem	Confirms

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134161

Review By	Sarabjit Jaswal	Review On	1/6/2025 4:37:53 AM
Supervise By	Mohan Bera	Supervise On	1/6/2025 4:38:30 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	MP83726,MP83745,M5819
LCS Standard	
Chk Standard	MP83513,MP83514

214	P5092-09DL	MBHLP6	SAM	01/04/25 02:47	4X for Ca	Kareem	Confirms
215	P5092-16DL	MBHLT7	SAM	01/04/25 02:51	2X for Ca	Kareem	Confirms
216	P5130-15	MBHMH5	SAM	01/04/25 02:55		Kareem	OK
217	P5130-16	MBHMH5D	DUP	01/04/25 02:58		Kareem	OK
218	P5130-15L	MBHMH5L	SD	01/04/25 03:02		Kareem	OK
219	P5130-17	MBHMH5S	MS	01/04/25 03:06	MS fail for As(141.4501ppb),Cu(580.1397ppb),Se(111.3629ppb), Tl(Below RL)	Kareem	OK
220	P5335-03DL	ME2906	SAM	01/04/25 03:10	4X for Ca	Kareem	Confirms
221	P5335-09DL	ME2912	SAM	01/04/25 03:14	4X for Ca	Kareem	Confirms
222	P5335-11DL	ME2914	SAM	01/04/25 03:17	2X for Ca	Kareem	Confirms
223	P5335-12DL	ME2915	SAM	01/04/25 03:21	4X for Ca	Kareem	Confirms
224	P5335-14DL	ME2917	SAM	01/04/25 03:25	2X for Ca	Kareem	Confirms
225	P5335-15DL	ME2918	SAM	01/04/25 03:29	2X for Ca	Kareem	Confirms
226	P5335-16DL	ME2919	SAM	01/04/25 03:33	2X for Ca	Kareem	Confirms
227	P5335-17DL	ME2920	SAM	01/04/25 03:36	2X for Ca	Kareem	Confirms
228	P5131-01	MBHMM0	SAM	01/04/25 03:40		Kareem	OK
229	P5131-02	MBHMM1	SAM	01/04/25 03:44		Kareem	OK
230	P5131-03	MBHMM2	SAM	01/04/25 03:48		Kareem	OK
231	CCV110	CCV110	CCV	01/04/25 03:52		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134161

Review By	Sarabjit Jaswal	Review On	1/6/2025 4:37:53 AM
Supervise By	Mohan Bera	Supervise On	1/6/2025 4:38:30 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	MP83726,MP83745,M5819
LCS Standard	
Chk Standard	MP83513,MP83514

232	CCB110	CCB110	CCB	01/04/25 03:55		Kareem	OK
233	P5131-04	MBHMM3	SAM	01/04/25 03:59		Kareem	OK
234	P5131-05	MBHMM4	SAM	01/04/25 04:03		Kareem	OK
235	P5131-06	MBHMM5	SAM	01/04/25 04:07		Kareem	OK
236	P5131-10	MBHMM7	SAM	01/04/25 04:11	Mn high	Kareem	Dilution
237	P5131-11	MBHMN2	SAM	01/04/25 04:14		Kareem	OK
238	P5131-12	MBHMN3	SAM	01/04/25 04:18		Kareem	OK
239	P5127-16	MBHMD9	SAM	01/04/25 04:22		Kareem	OK
240	P5127-17	MBHME0	SAM	01/04/25 04:26		Kareem	OK
241	P5127-18	MBHME7	SAM	01/04/25 04:30		Kareem	OK
242	P5127-19	MBHME8	SAM	01/04/25 04:33		Kareem	OK
243	P5127-20	MBHME9	SAM	01/04/25 04:37		Kareem	OK
244	P5127-21	MBHMF0	SAM	01/04/25 04:41		Kareem	OK
245	P5127-22	MBHMF1	SAM	01/04/25 04:45		Kareem	OK
246	P5128-01	MBHME4	SAM	01/04/25 04:49		Kareem	OK
247	P5128-02	MBHME5	SAM	01/04/25 04:52		Kareem	OK
248	P5128-03	MBHME6	SAM	01/04/25 04:56		Kareem	OK
249	P5128-04	MBHMG8	SAM	01/04/25 05:00		Kareem	OK
250	P5128-05	MBHMG9	SAM	01/04/25 05:04		Kareem	OK
251	P5128-06	MBHMH0	SAM	01/04/25 05:08		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134161

Review By	Sarabjit Jaswal	Review On	1/6/2025 4:37:53 AM
Supervise By	Mohan Bera	Supervise On	1/6/2025 4:38:30 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	MP83726,MP83745,M5819
LCS Standard	
Chk Standard	MP83513,MP83514

252	P5128-07	MBHMH1	SAM	01/04/25 05:11		Kareem	OK
253	CCV111	CCV111	CCV	01/04/25 05:15		Kareem	OK
254	CCB111	CCB111	CCB	01/04/25 05:19		Kareem	OK



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TO MOHAMMAD AHMED
ALLIANCE TECHNICAL GROUP LLC
284 SHEFFIELD STREET

MOUNTAINSIDE NJ 07092
(908) 789-8900
INV: 03.02.02.EXP
PO: 31800.192.009A
REF: US000650
DEPT: EMMANUEL GARCIA

58CJ4/EB78/C6C4

FedEx Express

FedEx
TRK# 0201 7704 1901 1892

TUE - 03 DEC AA
PRIORITY OVERNIGHT

NF KBCA

12-3-24
9:50
2-1

07092
NJ-US EWR

EXP 10/25

#6372226 12/02 58CJ4/EB78/C6C4

ORIGIN ID:BUFA (716) 853-1220
EMMANUEL GARCIAVILLAR
WSP USA INC.
50 LAKEFRONT BLVD

BUFFALO, NY 14202
UNITED STATES US

SHIP DATE: 02DEC24
ACTWGT: 40.00 LB
CAD: 108450087/INET4760
DIMS: 19x14x12 IN

BILL SENDER

TO **MOHAMMAD AHMED**
ALLIANCE TECHNICAL GROUP LLC
284 SHEFFIELD STREET

MOUNTAINSIDE NJ 07092
(908) 789-8900 REF: US000650
INV: 03.02.02.EXP
PO: 31800192.009A DEPT: EMMANUEL GARCIA

58CJ4/EB7B/C6C4

FedEx Express

FedEx
MPS# 0263 7704 1901 2650

TUE - 03 DEC A
PRIORITY OVERNIGHT

NF KBCA

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2-1°C

07092
NJ-US EWR

EXP 10/25

#6372226 12/02 58CJ4/EB7B/C6C4

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

Login Summary Report

Order ID :	P5060	Order Date :	12/3/2024 9:50:00 AM	Project Mgr :	Deepak
Client :	USEPA CLP SMO	Project :	51879	Report Type :	USEPA CLP
Contact :	Anita Kapadia	Receive Date :	12/3/2024 9:50:00 AM	EDD Type :	EPA CLP
Date Sign Off :	12/3/2024 2:41:25 PM				

Sample ID	Client ID	Matrix	Sampling Date	Test	Test Group	Method	TAT Days	Fax Due Date	HC Due Date
P5060-01	MBHKR8	Solid	11/21/2024						
				Metals CLP Full		SFAM_AES	15	01/07/2025	01/07/2025
				Percent Solids		Chemtech -SOP	15	01/07/2025	01/07/2025
P5060-02	MBHKR8D	Solid	11/21/2024						
				Metals CLP Full		SFAM_AES	15	01/07/2025	01/07/2025
				Percent Solids		Chemtech -SOP	15	01/07/2025	01/07/2025
P5060-03	MBHKR8S	Solid	11/21/2024						
				Metals CLP Full		SFAM_AES	15	01/07/2025	01/07/2025
				Percent Solids		Chemtech -SOP	15	01/07/2025	01/07/2025
P5060-04	MBHKW4	Solid	11/21/2024						
				Metals CLP Full		SFAM_AES	15	01/07/2025	01/07/2025
				Percent Solids		Chemtech -SOP	15	01/07/2025	01/07/2025
P5060-05	MBHKY6	Solid	11/21/2024						
				Metals CLP Full		SFAM_AES	15	01/07/2025	01/07/2025
				Percent Solids		Chemtech -SOP	15	01/07/2025	01/07/2025
P5060-06	MBHKY7	Solid	11/21/2024						
				Metals CLP Full		SFAM_AES	15	01/07/2025	01/07/2025
				Percent Solids		Chemtech -SOP	15	01/07/2025	01/07/2025
P5060-07	MBHKY8	Solid	11/21/2024						
				Metals CLP Full		SFAM_AES	15	01/07/2025	01/07/2025
				Percent Solids		Chemtech -SOP	15	01/07/2025	01/07/2025
P5060-08	MBHKY9	Solid	11/21/2024						
				Metals CLP Full		SFAM_AES	15	01/07/2025	01/07/2025
				Percent Solids		Chemtech -SOP	15	01/07/2025	01/07/2025
P5060-09	MBHKZ0	Solid	11/21/2024						
				Metals CLP Full		SFAM_AES	15	01/07/2025	01/07/2025
				Percent Solids		Chemtech -SOP	15	01/07/2025	01/07/2025
P5060-10	MBHKZ1	Solid	11/21/2024						
				Metals CLP Full		SFAM_AES	15	01/07/2025	01/07/2025
				Percent Solids		Chemtech -SOP	15	01/07/2025	01/07/2025

P5060-11	MBHKZ2	Solid	11/21/2024						
				Metals CLP Full		SFAM_AES	15	01/07/2025	01/07/2025
				Percent Solids		Chemtech -SOP	15	01/07/2025	01/07/2025
P5060-12	MBHL56	Solid	11/21/2024		FD				
				Metals CLP Full		SFAM_AES	15	01/07/2025	01/07/2025
				Percent Solids		Chemtech -SOP	15	01/07/2025	01/07/2025
P5060-13	MBHL57	Solid	11/21/2024		FD				
				Metals CLP Full		SFAM_AES	15	01/07/2025	01/07/2025
				Percent Solids		Chemtech -SOP	15	01/07/2025	01/07/2025
P5060-14	MBHKX1	Solid	11/21/2024						
				Metals CLP Full		SFAM_AES	15	01/07/2025	01/07/2025
				Percent Solids		Chemtech -SOP	15	01/07/2025	01/07/2025
P5060-15	MBHKX2	Solid	11/21/2024						
				Metals CLP Full		SFAM_AES	15	01/07/2025	01/07/2025
				Percent Solids		Chemtech -SOP	15	01/07/2025	01/07/2025
P5060-16	MBHKX3	Solid	11/21/2024						
				Metals CLP Full		SFAM_AES	15	01/07/2025	01/07/2025
				Percent Solids		Chemtech -SOP	15	01/07/2025	01/07/2025
P5060-17	MBHKX4	Solid	11/21/2024						
				Metals CLP Full		SFAM_AES	15	01/07/2025	01/07/2025
				Percent Solids		Chemtech -SOP	15	01/07/2025	01/07/2025
P5060-18	MBHKX6	Solid	11/21/2024						
				Metals CLP Full		SFAM_AES	15	01/07/2025	01/07/2025
				Percent Solids		Chemtech -SOP	15	01/07/2025	01/07/2025
P5060-19	MBHKX7	Solid	11/21/2024						
				Metals CLP Full		SFAM_AES	15	01/07/2025	01/07/2025
				Percent Solids		Chemtech -SOP	15	01/07/2025	01/07/2025
P5060-20	MBHKX8	Solid	11/21/2024						
				Metals CLP Full		SFAM_AES	15	01/07/2025	01/07/2025
				Percent Solids		Chemtech -SOP	15	01/07/2025	01/07/2025
P5060-21	MBHL58	Solid	11/21/2024		FD				
				Metals CLP Full		SFAM_AES	15	01/07/2025	01/07/2025
				Percent Solids		Chemtech -SOP	15	01/07/2025	01/07/2025
P5060-22	MBHL59	Solid	11/21/2024		FD				
				Metals CLP Full		SFAM_AES	15	01/07/2025	01/07/2025
				Percent Solids		Chemtech -SOP	15	01/07/2025	01/07/2025

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB165495 **WorkList ID :** 186134 **Department :** Digestion **Date :** 12-09-2024 11:03:34

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Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5060-01	MBHKR8	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C53	11/21/2024	SFAM_AES
P5060-02	MBHKR8D	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C53	11/21/2024	SFAM_AES
P5060-03	MBHKR8S	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C53	11/21/2024	SFAM_AES
P5060-04	MBHKW4	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C53	11/21/2024	SFAM_AES
P5060-05	MBHKY6	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C53	11/21/2024	SFAM_AES
P5060-06	MBHKY7	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C53	11/21/2024	SFAM_AES
P5060-07	MBHKY8	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C53	11/21/2024	SFAM_AES
P5060-08	MBHKY9	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C53	11/21/2024	SFAM_AES
P5060-09	MBHKZ0	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C53	11/21/2024	SFAM_AES
P5060-10	MBHKZ1	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C53	11/21/2024	SFAM_AES
P5060-11	MBHKZ2	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C53	11/21/2024	SFAM_AES
P5060-12	MBHL56	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C53	11/21/2024	SFAM_AES
P5060-13	MBHL57	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C53	11/21/2024	SFAM_AES
P5060-14	MBHKX1	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C53	11/21/2024	SFAM_AES
P5060-15	MBHKX2	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C53	11/21/2024	SFAM_AES
P5060-16	MBHKX3	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C53	11/21/2024	SFAM_AES
P5060-17	MBHKX4	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C53	11/21/2024	SFAM_AES
P5060-18	MBHKX6	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C53	11/21/2024	SFAM_AES
P5060-19	MBHKX7	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C53	11/21/2024	SFAM_AES
P5060-20	MBHKX8	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C53	11/21/2024	SFAM_AES
P5060-21	MBHL58	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C53	11/21/2024	SFAM_AES

Date/Time 12/09/24 11:25

Raw Sample Received by: Jgp Met dig

Raw Sample Relinquished by: CP SM

Date/Time 12/09/24 12:30

Raw Sample Received by: CP SM

Raw Sample Relinquished by: Jgp Met dig

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB165495 **WorkList ID :** 186134 **Department :** Digestion **Date :** 12-09-2024 11:03:34

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5060-22	MBHL59	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C53	11/21/2024	SFAM_AES

608

Date/Time 12/09/24 11:24

Raw Sample Received by: JSP Met dig

Raw Sample Relinquished by: CP Sm

Date/Time 12/09/24 12:30

Raw Sample Received by: CP Sm

Raw Sample Relinquished by: JSP Met dig