SDG COVER PAGE

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

Lab Code: ACE Case No.: 51879 MA No.: SDG No.: MBHK93

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MBHK93	P5033-01	X			
MBHK94	P5033-02	X			
MBHK95	P5033-03	X			
MBHK96	P5033-04	X			
MBHK97	P5033-05	X			
MBHK97D	P5033-06	X			
MBHK97S	P5033-07	X			
MBHK98	P5033-08	X			
MBHK99	P5033-09	X			
MBHKA0	P5033-10	X			
MBHKA1	P5033-11	X			
MBHKA2	P5033-12	X			
MBHKA3	P5033-13	X			
MBHKG8	P5033-14	X			
MBHKG9	P5033-15	X			
MBHKH0	P5033-16	X			
MBHKH1	P5033-17	X			
MBHKH2	P5033-18	X			
MBHKH3	P5033-19	X			
MBHKP7	P5033-20	X			
MBHKQ4	P5033-21	X			

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

Signature: Name:

Date: Title:

68HERH20D0011

SDG # MBHK93

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 2-112624-114836-0030

DateShipped: 11/26/2024

CarrierName: FedEx

AirbillNo: 7702 6139 4027

Case #: 51879

Cooler #: 5

Lab: Alliance Technical Group LLC

Lab Contact: Mohammad Ahmed

Lab Phone: 908-789-8900

2

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
P175-SB-14-Z12-18	MBHK93	Soil/		ICP-AES(35)	4761 (Wet ice < 6 C) (1)	P175-SB-14	11/20/2024 14:30	
P175-SB-14-Z18-24	MBHK94	Soil/		ICP-AES(35)	4762 (Wet ice < 6 C) (1)	P175-SB-14	11/20/2024 14:30	
P175-SB-14-Z24-30	MBHK95	Soil/		ICP-AES(35)	4763 (Wet ice < 6 C) (1)	P175-SB-14	11/20/2024 14:30	
P175-SB-14-Z30-36	MBHK96	Soil/		ICP-AES(35)	4764 (Wet ice < 6 C) (1)	P175-SB-14	11/20/2024 14:30	
P175-SB-15-Z00-02	MBHK97	Soil/		ICP-AES(35)	4765 (Wet ice < 6 C) (1)	P175-SB-15	11/20/2024 15:00	QC
P175-SB-15-Z02-06	MBHK98	Soil/		ICP-AES(35)	4766 (Wet ice < 6 C) (1)	P175-SB-15	11/20/2024 15:00	
P175-SB-15-Z06-12	MBHK99	Soil/		ICP-AES(35)	4767 (Wet ice < 6 C) (1)	P175-SB-15	11/20/2024 15:00	
P175-SB-15-Z12-18	MBHKA0	Soil/		ICP-AES(35)	4768 (Wet ice < 6 C) (1)	P175-SB-15	11/20/2024 15:00	
P175-SB-15-Z18-24	MBHKA1	Soil/		ICP-AES(35)	4769 (Wet ice < 6 C) (1)	P175-SB-15	11/20/2024 15:00	
P175-SB-15-Z24-30	MBHKA2	Soil/		ICP-AES(35)	4810 (Wet ice < 6 C) (1)	P175-SB-15	11/20/2024 15:00	

Sample(s) to be used for Lab QC: P175-SB-15-Z00-02 Tag 4765 - Special Instructions: Samples MBHK84 and MBHK97 are MS/MSDs.	**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] USP	11/26/24 1710	R. Melendez		
		N/A	[signature]	10:05 11.27.24	IR gun #1 2.7°
		11/26/24			Temp Blank present
					Custody Seal intact

68HERH20D0011

SDG # MBHK93

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 2-112624-114836-0030

DateShipped: 11/26/2024

CarrierName: FedEx

AirbillNo: 7702 6139 4027

Case #: 51879

Cooler #: 5

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
P175-SB-15-Z30-36	MBHKA3	Soil/		ICP-AES(35)	4811 (Wet ice < 6 C) (1)	P175-SB-15	11/20/2024 15:00	
P175-SB-14-Z30-36-FD	MBHKG8	Soil/		ICP-AES(35)	5499 (Wet ice < 6 C) (1)	P175-SB-14	11/20/2024 14:30	
P175-SB-02-Z00-02	MBHKG9	Soil/		ICP-AES(35)	4684 (Wet ice < 6 C) (1)	P175-SB-02	11/21/2024 08:40	
P175-SB-02-Z02-06	MBHKH0	Soil/		ICP-AES(35)	4685 (Wet ice < 6 C) (1)	P175-SB-02	11/21/2024 08:40	
P175-SB-02-Z06-12	MBHKH1	Soil/		ICP-AES(35)	4686 (Wet ice < 6 C) (1)	P175-SB-02	11/21/2024 08:40	
P175-SB-02-Z12-18	MBHKH2	Soil/		ICP-AES(35)	4687 (Wet ice < 6 C) (1)	P175-SB-02	11/21/2024 08:40	
P175-SB-02-Z18-24	MBHKH3	Soil/		ICP-AES(35)	4688 (Wet ice < 6 C) (1)	P175-SB-02	11/21/2024 08:40	
P175-SB-02-Z12-18-FD	MBHKP7	Soil/		ICP-AES(35)	5500 (Wet ice < 6 C) (1)	P175-SB-02	11/21/2024 08:40	
RB10-11262024	MBHKQ4	Water/		ICP-AES(35)	5507 (HNO3 pH < 2) (1)	RB10-11262024	11/26/2024 16:30	pH 1.0
				N/A				
					11/26/24			

Special Instructions: Samples MBHK84 and MBHK97 are MS/MSDs.	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: ICP-AES=CLP Routine - SFAM01.1/LSASD SOP C-109 Metals	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
1 Cooler	WSP	11/26/24 1710	R. Melendez		
		N/A		10:05 11.27.24	IR gun #1 2.7°
			11/26/24		Temp BLANK present
					Custody seal intact

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 1 of 1
Received By (Print Name) Gayathri Rai		Log-in Date 11/27/2024
Received By (Signature)		
Case Number 51879	SDG No. MBHK93	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.	770261394027 1
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.7 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	11/27/2024
12.Time Received	10:05

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	MBHK93	N/A	4761	P5033-01	Intact
2	MBHK94	N/A	4762	P5033-02	Intact
3	MBHK95	N/A	4763	P5033-03	Intact
4	MBHK96	N/A	4764	P5033-04	Intact
5	MBHK97	N/A	4765	P5033-05	Intact
6	MBHK97D	N/A	4765	P5033-06	Intact
7	MBHK97S	N/A	4765	P5033-07	Intact
8	MBHK98	N/A	4766	P5033-08	Intact
9	MBHK99	N/A	4767	P5033-09	Intact
10	MBHKA0	N/A	4768	P5033-10	Intact
11	MBHKA1	N/A	4769	P5033-11	Intact
12	MBHKA2	N/A	4810	P5033-12	Intact
13	MBHKA3	N/A	4811	P5033-13	Intact
14	MBHKG8	N/A	5499	P5033-14	Intact
15	MBHKG9	N/A	4684	P5033-15	Intact
16	MBHKH0	N/A	4685	P5033-16	Intact
17	MBHKH1	N/A	4686	P5033-17	Intact
18	MBHKH2	N/A	4687	P5033-18	Intact
19	MBHKH3	N/A	4688	P5033-19	Intact
20	MBHKP7	N/A	5500	P5033-20	Intact
21	MBHKQ4	PH 1.0	5507	P5033-21	Intact
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By	Logbook No. N/A
Date 11/27/24	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.	**MBHK93**
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	3	✓	
3. Sample Log-In Sheet (DC-1)	4	4	✓	
4. CSF Inventory Sheet (DC-2)	5	7	✓	
5. SDG Narrative	8	10	✓	
6. Communication Logs	NA	NA	✓	
7. Percent Solids Log	11	12	✓	
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	13	31	✓	
9. Instrument raw data by instrument in analysis order	32	925	✓	
Other Data				
10. Standard and Reagent Preparation Logs	926	1080	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	1081	1084	✓	
12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	1085	1112	✓	
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 1)	1113	1113	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	1114	1115	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	1116	1117	✓	
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 # MBHK93
CASE # 51879
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # P5033

A. Number of Samples and Date of Receipt

18 Soil & 01 Water samples were delivered to the laboratory intact on 11/27/2024.

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: 2.7^{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 MBHK93 For Arsenic:

If C = 0.0919194 ppm
Vf = 100 ml
W = 1.28 g
S = 0.844(84.4/100)
DF = 1

$$\text{Concentration (mg/kg)} = 0.0919194 \times \frac{100}{1.28 \times 0.844} \times 1$$

$$= 8.508534 \text{ mg/kg}$$

$$= 8.5 \text{ mg/kg (Reported Result with Signification)}$$

Calculation for ICP-AES Water Sample:

$$\text{Concentration or Result (µg/L)} = C \times \frac{Vf}{Vi} \times DF \times 1000$$

Where,
C = Instrument value in ppm (The average of all replicate exposures)
Vf = Final digestion volume (mL)
Vi = Initial aliquot amount (mL) (Sample amount taken in prep)
DF = Dilution Factor

284 Sheffield Street
Mountainside, NJ 07092

Example Calculation For Sample MBHKQ4 For Arsenic:

If C = 0.0057036 ppm
Vf = 50 ml
Vi = 50 ml
DF = 1

Concentration or Result (µg/L) = $0.0057036 \times \frac{50}{50} \times 1 \times 1000$

= 5.7036 µg/L

= 5.7 µg/L (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 Selenium, Silver, Zinc. Duplicate sample did meet requirements. Serial Dilution did meet requirements except for Cobalt.

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.

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: 12/3/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 12:30
In Date: 12/02/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 07:45
Out Date: 12/03/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133676

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
P5033-01	MBHK93	1	1.15	8.44	9.59	8.27	84.4	
P5033-02	MBHK94	2	1.18	8.63	9.81	8.75	87.7	
P5033-03	MBHK95	3	1.16	8.50	9.66	8.6	87.5	
P5033-04	MBHK96	4	1.18	8.49	9.67	8.71	88.7	
P5033-05	MBHK97	5	1.13	8.76	9.89	7.19	69.2	
P5033-06	MBHK97D	6	1.13	8.76	9.89	7.19	69.2	
P5033-07	MBHK97S	7	1.13	8.76	9.89	7.19	69.2	
P5033-08	MBHK98	8	1.14	8.40	9.54	7.73	78.5	
P5033-09	MBHK99	9	1.12	8.70	9.82	8.56	85.5	
P5033-10	MBHKA0	10	1.18	8.50	9.68	8.53	86.5	
P5033-11	MBHKA1	11	1.15	8.50	9.65	8.64	88.1	
P5033-12	MBHKA2	12	1.12	8.46	9.58	8.46	86.8	
P5033-13	MBHKA3	13	1.16	8.70	9.86	8.77	87.5	
P5033-14	MBHKG8	14	1.19	8.57	9.76	8.81	88.9	
P5033-15	MBHKG9	15	1.15	8.81	9.96	7.89	76.5	
P5033-16	MBHKH0	16	1.15	8.82	9.97	8.29	81.0	
P5033-17	MBHKH1	17	1.15	8.38	9.53	8.54	88.2	
P5033-18	MBHKH2	18	1.16	8.64	9.8	8.88	89.4	
P5033-19	MBHKH3	19	1.17	8.60	9.77	8.83	89.1	
P5033-20	MBHKP7	20	1.15	8.63	9.78	8.89	89.7	

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

WORKLIST(Hardcopy Internal Chain)

VP 133676

WorkList Name : %1-p5033 **WorkList ID :** 185884 **Department :** Wet-Chemistry **Date :** 12-02-2024 09:05:39

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5033-01	MBHK93	Solid	Percent Solids	Cool 4 deg C	USEP01	C22	11/20/2024	Chemtech -SO
P5033-02	MBHK94	Solid	Percent Solids	Cool 4 deg C	USEP01	C22	11/20/2024	Chemtech -SO
P5033-03	MBHK95	Solid	Percent Solids	Cool 4 deg C	USEP01	C22	11/20/2024	Chemtech -SO
P5033-04	MBHK96	Solid	Percent Solids	Cool 4 deg C	USEP01	C22	11/20/2024	Chemtech -SO
P5033-05	MBHK97	Solid	Percent Solids	Cool 4 deg C	USEP01	C22	11/20/2024	Chemtech -SO
P5033-06	MBHK97D	Solid	Percent Solids	Cool 4 deg C	USEP01	C22	11/20/2024	Chemtech -SO
P5033-07	MBHK97S	Solid	Percent Solids	Cool 4 deg C	USEP01	C22	11/20/2024	Chemtech -SO
P5033-08	MBHK98	Solid	Percent Solids	Cool 4 deg C	USEP01	C22	11/20/2024	Chemtech -SO
P5033-09	MBHK99	Solid	Percent Solids	Cool 4 deg C	USEP01	C22	11/20/2024	Chemtech -SO
P5033-10	MBHKA0	Solid	Percent Solids	Cool 4 deg C	USEP01	C22	11/20/2024	Chemtech -SO
P5033-11	MBHKA1	Solid	Percent Solids	Cool 4 deg C	USEP01	C22	11/20/2024	Chemtech -SO
P5033-12	MBHKA2	Solid	Percent Solids	Cool 4 deg C	USEP01	C22	11/20/2024	Chemtech -SO
P5033-13	MBHKA3	Solid	Percent Solids	Cool 4 deg C	USEP01	C22	11/20/2024	Chemtech -SO
P5033-14	MBHKG8	Solid	Percent Solids	Cool 4 deg C	USEP01	C22	11/20/2024	Chemtech -SO
P5033-15	MBHKG9	Solid	Percent Solids	Cool 4 deg C	USEP01	C22	11/20/2024	Chemtech -SO
P5033-16	MBHKH0	Solid	Percent Solids	Cool 4 deg C	USEP01	C22	11/21/2024	Chemtech -SO
P5033-17	MBHKH1	Solid	Percent Solids	Cool 4 deg C	USEP01	C22	11/21/2024	Chemtech -SO
P5033-18	MBHKH2	Solid	Percent Solids	Cool 4 deg C	USEP01	C22	11/21/2024	Chemtech -SO
P5033-19	MBHKH3	Solid	Percent Solids	Cool 4 deg C	USEP01	C22	11/21/2024	Chemtech -SO
P5033-20	MBHKP7	Solid	Percent Solids	Cool 4 deg C	USEP01	C22	11/21/2024	Chemtech -SO

12

Date/Time 12/02/24 12:00

Raw Sample Received by: JB (WDC)

Raw Sample Relinquished by: SM

Date/Time 12/02/24 12:35

Raw Sample Received by: SM

Raw Sample Relinquished by: JB (WDC)

EPA SAMPLE NO.

MBHK93

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.: MBHK93

Matrix: SOIL Lab Sample ID: P5033-01

% Solids: 84.4 Date Received: 11/27/2024

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	5500		12/16/2024	0546
7440-36-0	Antimony	1.3	J	12/16/2024	0546
7440-38-2	Arsenic	8.5		12/16/2024	0546
7440-39-3	Barium	120		12/16/2024	0546
7440-41-7	Beryllium	0.49		12/16/2024	0546
7440-43-9	Cadmium	0.89		12/16/2024	0546
7440-70-2	Calcium	49000		12/16/2024	0546
7440-47-3	Chromium	9.7		12/16/2024	0546
7440-48-4	Cobalt	12	*	12/16/2024	0546
7440-50-8	Copper	29		12/16/2024	0546
7439-89-6	Iron	13000		12/16/2024	0546
7439-92-1	Lead	100		12/16/2024	0546
7439-95-4	Magnesium	5800		12/16/2024	0546
7439-96-5	Manganese	970		12/16/2024	0546
7440-02-0	Nickel	15		12/16/2024	0546
7440-09-7	Potassium	520		12/16/2024	0546
7782-49-2	Selenium	3.2	U*	12/16/2024	0546
7440-22-4	Silver	0.93	U*	12/16/2024	0546
7440-23-5	Sodium	460	U	12/16/2024	0546
7440-28-0	Thallium	3.7		12/16/2024	0546
7440-62-2	Vanadium	13		12/16/2024	0546
7440-66-6	Zinc	87	*	12/16/2024	0546

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

Comments:

EPA SAMPLE NO.

MBHK94

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.: MBHK93

Matrix: SOIL Lab Sample ID: P5033-02

% Solids: 87.7 Date Received: 11/27/2024

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	4100		12/16/2024	0550
7440-36-0	Antimony	0.46	J	12/16/2024	0550
7440-38-2	Arsenic	4.5		12/16/2024	0550
7440-39-3	Barium	70		12/16/2024	0550
7440-41-7	Beryllium	0.37	J	12/16/2024	0550
7440-43-9	Cadmium	0.39	J	12/16/2024	0550
7440-70-2	Calcium	69000		12/16/2024	0550
7440-47-3	Chromium	7.2		12/16/2024	0550
7440-48-4	Cobalt	10	*	12/16/2024	0550
7440-50-8	Copper	14		12/16/2024	0550
7439-89-6	Iron	9800		12/16/2024	0550
7439-92-1	Lead	42		12/16/2024	0550
7439-95-4	Magnesium	9000		12/16/2024	0550
7439-96-5	Manganese	460		12/16/2024	0550
7440-02-0	Nickel	12		12/16/2024	0550
7440-09-7	Potassium	340	J	12/16/2024	0550
7782-49-2	Selenium	3.1	U*	12/16/2024	0550
7440-22-4	Silver	0.87	U*	12/16/2024	0550
7440-23-5	Sodium	440	U	12/16/2024	0550
7440-28-0	Thallium	2.8		12/16/2024	0550
7440-62-2	Vanadium	9.3		12/16/2024	0550
7440-66-6	Zinc	44	*	12/16/2024	0550

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

Comments:

EPA SAMPLE NO.

MBHK95

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.: MBHK93

Matrix: SOIL Lab Sample ID: P5033-03

% Solids: 87.5 Date Received: 11/27/2024

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	4500		12/16/2024	0554
7440-36-0	Antimony	0.75	J	12/16/2024	0554
7440-38-2	Arsenic	4.2		12/16/2024	0554
7440-39-3	Barium	72		12/16/2024	0554
7440-41-7	Beryllium	0.38	J	12/16/2024	0554
7440-43-9	Cadmium	0.33	J	12/16/2024	0554
7440-70-2	Calcium	59000		12/16/2024	0554
7440-47-3	Chromium	9.0		12/16/2024	0554
7440-48-4	Cobalt	11	*	12/16/2024	0554
7440-50-8	Copper	14		12/16/2024	0554
7439-89-6	Iron	10000		12/16/2024	0554
7439-92-1	Lead	39		12/16/2024	0554
7439-95-4	Magnesium	9500		12/16/2024	0554
7439-96-5	Manganese	400		12/16/2024	0554
7440-02-0	Nickel	14		12/16/2024	0554
7440-09-7	Potassium	370	J	12/16/2024	0554
7782-49-2	Selenium	2.7	U*	12/16/2024	0554
7440-22-4	Silver	0.78	U*	12/16/2024	0554
7440-23-5	Sodium	390	U	12/16/2024	0554
7440-28-0	Thallium	2.3		12/16/2024	0554
7440-62-2	Vanadium	9.5		12/16/2024	0554
7440-66-6	Zinc	41	*	12/16/2024	0554

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

Comments:

EPA SAMPLE NO.

MBHK96

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.: MBHK93

Matrix: SOIL Lab Sample ID: P5033-04

% Solids: 88.7 Date Received: 11/27/2024

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	3900		12/16/2024	0558
7440-36-0	Antimony	0.94	J	12/16/2024	0558
7440-38-2	Arsenic	3.6		12/16/2024	0558
7440-39-3	Barium	59		12/16/2024	0558
7440-41-7	Beryllium	0.34	J	12/16/2024	0558
7440-43-9	Cadmium	0.25	J	12/16/2024	0558
7440-70-2	Calcium	81000	D	12/23/2024	1428
7440-47-3	Chromium	6.3		12/16/2024	0558
7440-48-4	Cobalt	12	*	12/16/2024	0558
7440-50-8	Copper	14		12/16/2024	0558
7439-89-6	Iron	10000		12/16/2024	0558
7439-92-1	Lead	13		12/16/2024	0558
7439-95-4	Magnesium	12000		12/16/2024	0558
7439-96-5	Manganese	460		12/16/2024	0558
7440-02-0	Nickel	14		12/16/2024	0558
7440-09-7	Potassium	530		12/16/2024	0558
7782-49-2	Selenium	2.7	U*	12/16/2024	0558
7440-22-4	Silver	0.78	U*	12/16/2024	0558
7440-23-5	Sodium	390	U	12/16/2024	0558
7440-28-0	Thallium	2.4		12/16/2024	0558
7440-62-2	Vanadium	8.4		12/16/2024	0558
7440-66-6	Zinc	32	*	12/16/2024	0558

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

Comments:

EPA SAMPLE NO.

MBHK97

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.: MBHK93

Matrix: SOIL Lab Sample ID: P5033-05

% Solids: 69.2 Date Received: 11/27/2024

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		12/16/2024	0602
7440-36-0	Antimony	1.8	J	12/16/2024	0602
7440-38-2	Arsenic	9.4		12/16/2024	0602
7440-39-3	Barium	180		12/16/2024	0602
7440-41-7	Beryllium	0.65		12/16/2024	0602
7440-43-9	Cadmium	0.99		12/16/2024	0602
7440-70-2	Calcium	30000		12/16/2024	0602
7440-47-3	Chromium	15		12/16/2024	0602
7440-48-4	Cobalt	13	*	12/16/2024	0602
7440-50-8	Copper	33		12/16/2024	0602
7439-89-6	Iron	15000		12/16/2024	0602
7439-92-1	Lead	360		12/16/2024	0602
7439-95-4	Magnesium	6100		12/16/2024	0602
7439-96-5	Manganese	960		12/16/2024	0602
7440-02-0	Nickel	22		12/16/2024	0602
7440-09-7	Potassium	990		12/16/2024	0602
7782-49-2	Selenium	4.0	U*	12/16/2024	0602
7440-22-4	Silver	1.2	U*	12/16/2024	0602
7440-23-5	Sodium	570	U	12/16/2024	0602
7440-28-0	Thallium	2.8	J	12/16/2024	0602
7440-62-2	Vanadium	15		12/16/2024	0602
7440-66-6	Zinc	210	*	12/16/2024	0602

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

Comments:

EPA SAMPLE NO.

MBHK98

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.: MBHK93

Matrix: SOIL Lab Sample ID: P5033-08

% Solids: 78.5 Date Received: 11/27/2024

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	5400		12/16/2024	0631
7440-36-0	Antimony	1.5	J	12/16/2024	0631
7440-38-2	Arsenic	9.5		12/16/2024	0631
7440-39-3	Barium	160		12/16/2024	0631
7440-41-7	Beryllium	0.56		12/16/2024	0631
7440-43-9	Cadmium	0.97		12/16/2024	0631
7440-70-2	Calcium	37000		12/16/2024	0631
7440-47-3	Chromium	15		12/16/2024	0631
7440-48-4	Cobalt	12	*	12/16/2024	0631
7440-50-8	Copper	32		12/16/2024	0631
7439-89-6	Iron	14000		12/16/2024	0631
7439-92-1	Lead	270		12/16/2024	0631
7439-95-4	Magnesium	6200		12/16/2024	0631
7439-96-5	Manganese	930		12/16/2024	0631
7440-02-0	Nickel	23		12/16/2024	0631
7440-09-7	Potassium	680		12/16/2024	0631
7782-49-2	Selenium	3.4	U*	12/16/2024	0631
7440-22-4	Silver	0.97	U*	12/16/2024	0631
7440-23-5	Sodium	480	U	12/16/2024	0631
7440-28-0	Thallium	3.1		12/16/2024	0631
7440-62-2	Vanadium	13		12/16/2024	0631
7440-66-6	Zinc	210	*	12/16/2024	0631

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

Comments:

EPA SAMPLE NO.

MBHK99

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.: MBHK93

Matrix: SOIL Lab Sample ID: P5033-09

% Solids: 85.5 Date Received: 11/27/2024

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	4800		12/16/2024	0635
7440-36-0	Antimony	1.3	J	12/16/2024	0635
7440-38-2	Arsenic	8.5		12/16/2024	0635
7440-39-3	Barium	83		12/16/2024	0635
7440-41-7	Beryllium	0.47		12/16/2024	0635
7440-43-9	Cadmium	0.63		12/16/2024	0635
7440-70-2	Calcium	67000		12/16/2024	0635
7440-47-3	Chromium	9.2		12/16/2024	0635
7440-48-4	Cobalt	13	*	12/16/2024	0635
7440-50-8	Copper	28		12/16/2024	0635
7439-89-6	Iron	12000		12/16/2024	0635
7439-92-1	Lead	110		12/16/2024	0635
7439-95-4	Magnesium	12000		12/16/2024	0635
7439-96-5	Manganese	730		12/16/2024	0635
7440-02-0	Nickel	18		12/16/2024	0635
7440-09-7	Potassium	610		12/16/2024	0635
7782-49-2	Selenium	3.3	U*	12/16/2024	0635
7440-22-4	Silver	0.94	U*	12/16/2024	0635
7440-23-5	Sodium	470	U	12/16/2024	0635
7440-28-0	Thallium	3.5		12/16/2024	0635
7440-62-2	Vanadium	9.9		12/16/2024	0635
7440-66-6	Zinc	97	*	12/16/2024	0635

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

Comments:

EPA SAMPLE NO.

MBHKA0

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.: MBHK93

Matrix: SOIL Lab Sample ID: P5033-10

% Solids: 86.5 Date Received: 11/27/2024

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	4700		12/16/2024	0639
7440-36-0	Antimony	1.3	J	12/16/2024	0639
7440-38-2	Arsenic	7.9		12/16/2024	0639
7440-39-3	Barium	110		12/16/2024	0639
7440-41-7	Beryllium	0.47		12/16/2024	0639
7440-43-9	Cadmium	0.64		12/16/2024	0639
7440-70-2	Calcium	61000		12/16/2024	0639
7440-47-3	Chromium	8.7		12/16/2024	0639
7440-48-4	Cobalt	12	*	12/16/2024	0639
7440-50-8	Copper	26		12/16/2024	0639
7439-89-6	Iron	12000		12/16/2024	0639
7439-92-1	Lead	110		12/16/2024	0639
7439-95-4	Magnesium	7700		12/16/2024	0639
7439-96-5	Manganese	910		12/16/2024	0639
7440-02-0	Nickel	17		12/16/2024	0639
7440-09-7	Potassium	830		12/16/2024	0639
7782-49-2	Selenium	2.7	U*	12/16/2024	0639
7440-22-4	Silver	0.78	U*	12/16/2024	0639
7440-23-5	Sodium	390	U	12/16/2024	0639
7440-28-0	Thallium	3.1		12/16/2024	0639
7440-62-2	Vanadium	9.6		12/16/2024	0639
7440-66-6	Zinc	87	*	12/16/2024	0639

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

Comments:

EPA SAMPLE NO.

MBHKA1

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.: MBHK93

Matrix: SOIL Lab Sample ID: P5033-11

% Solids: 88.1 Date Received: 11/27/2024

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	4400		12/16/2024	0643
7440-36-0	Antimony	0.96	J	12/16/2024	0643
7440-38-2	Arsenic	7.4		12/16/2024	0643
7440-39-3	Barium	76		12/16/2024	0643
7440-41-7	Beryllium	0.44		12/16/2024	0643
7440-43-9	Cadmium	0.51		12/16/2024	0643
7440-70-2	Calcium	63000		12/16/2024	0643
7440-47-3	Chromium	7.2		12/16/2024	0643
7440-48-4	Cobalt	12	*	12/16/2024	0643
7440-50-8	Copper	25		12/16/2024	0643
7439-89-6	Iron	11000		12/16/2024	0643
7439-92-1	Lead	53		12/16/2024	0643
7439-95-4	Magnesium	11000		12/16/2024	0643
7439-96-5	Manganese	840		12/16/2024	0643
7440-02-0	Nickel	15		12/16/2024	0643
7440-09-7	Potassium	750		12/16/2024	0643
7782-49-2	Selenium	2.9	U*	12/16/2024	0643
7440-22-4	Silver	0.84	U*	12/16/2024	0643
7440-23-5	Sodium	420	U	12/16/2024	0643
7440-28-0	Thallium	3.2		12/16/2024	0643
7440-62-2	Vanadium	9.0		12/16/2024	0643
7440-66-6	Zinc	53	*	12/16/2024	0643

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

Comments:

EPA SAMPLE NO.

MBHKA2

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.: MBHK93

Matrix: SOIL Lab Sample ID: P5033-12

% Solids: 86.8 Date Received: 11/27/2024

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		12/16/2024	0647
7440-36-0	Antimony	1.6	J	12/16/2024	0647
7440-38-2	Arsenic	8.9		12/16/2024	0647
7440-39-3	Barium	80		12/16/2024	0647
7440-41-7	Beryllium	0.53		12/16/2024	0647
7440-43-9	Cadmium	0.55		12/16/2024	0647
7440-70-2	Calcium	76000	D	12/23/2024	1432
7440-47-3	Chromium	9.6		12/16/2024	0647
7440-48-4	Cobalt	13	*	12/16/2024	0647
7440-50-8	Copper	730		12/16/2024	0647
7439-89-6	Iron	14000		12/16/2024	0647
7439-92-1	Lead	48		12/16/2024	0647
7439-95-4	Magnesium	11000		12/16/2024	0647
7439-96-5	Manganese	910		12/16/2024	0647
7440-02-0	Nickel	17		12/16/2024	0647
7440-09-7	Potassium	1200		12/16/2024	0647
7782-49-2	Selenium	2.7	U*	12/16/2024	0647
7440-22-4	Silver	0.78	U*	12/16/2024	0647
7440-23-5	Sodium	390	U	12/16/2024	0647
7440-28-0	Thallium	3.2		12/16/2024	0647
7440-62-2	Vanadium	11		12/16/2024	0647
7440-66-6	Zinc	200	*	12/16/2024	0647

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

Comments:

EPA SAMPLE NO.

MBHKA3

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.: MBHK93

Matrix: SOIL Lab Sample ID: P5033-13

% Solids: 87.5 Date Received: 11/27/2024

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	3800		12/16/2024	0650
7440-36-0	Antimony	4.8	U	12/16/2024	0650
7440-38-2	Arsenic	3.4		12/16/2024	0650
7440-39-3	Barium	50		12/16/2024	0650
7440-41-7	Beryllium	0.40		12/16/2024	0650
7440-43-9	Cadmium	0.24	J	12/16/2024	0650
7440-70-2	Calcium	94000	D	12/23/2024	1436
7440-47-3	Chromium	6.8		12/16/2024	0650
7440-48-4	Cobalt	9.4	*	12/16/2024	0650
7440-50-8	Copper	20		12/16/2024	0650
7439-89-6	Iron	8800		12/16/2024	0650
7439-92-1	Lead	16		12/16/2024	0650
7439-95-4	Magnesium	7900		12/16/2024	0650
7439-96-5	Manganese	440		12/16/2024	0650
7440-02-0	Nickel	11		12/16/2024	0650
7440-09-7	Potassium	1100		12/16/2024	0650
7782-49-2	Selenium	2.8	U*	12/16/2024	0650
7440-22-4	Silver	0.79	U*	12/16/2024	0650
7440-23-5	Sodium	400	U	12/16/2024	0650
7440-28-0	Thallium	2.9		12/16/2024	0650
7440-62-2	Vanadium	6.1		12/16/2024	0650
7440-66-6	Zinc	34	*	12/16/2024	0650

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

Comments:

EPA SAMPLE NO.

MBHKG8

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.: MBHK93

Matrix: SOIL Lab Sample ID: P5033-14

% Solids: 88.9 Date Received: 11/27/2024

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	4500		12/16/2024	0654
7440-36-0	Antimony	1.7	J	12/16/2024	0654
7440-38-2	Arsenic	9.8		12/16/2024	0654
7440-39-3	Barium	78		12/16/2024	0654
7440-41-7	Beryllium	0.43	J	12/16/2024	0654
7440-43-9	Cadmium	0.54		12/16/2024	0654
7440-70-2	Calcium	5900		12/16/2024	0654
7440-47-3	Chromium	12		12/16/2024	0654
7440-48-4	Cobalt	9.6	*	12/16/2024	0654
7440-50-8	Copper	27		12/16/2024	0654
7439-89-6	Iron	11000		12/16/2024	0654
7439-92-1	Lead	220		12/16/2024	0654
7439-95-4	Magnesium	2200		12/16/2024	0654
7439-96-5	Manganese	960		12/16/2024	0654
7440-02-0	Nickel	16		12/16/2024	0654
7440-09-7	Potassium	690		12/16/2024	0654
7782-49-2	Selenium	3.1	U*	12/16/2024	0654
7440-22-4	Silver	0.89	U*	12/16/2024	0654
7440-23-5	Sodium	450	U	12/16/2024	0654
7440-28-0	Thallium	2.0	J	12/16/2024	0654
7440-62-2	Vanadium	10		12/16/2024	0654
7440-66-6	Zinc	76	*	12/16/2024	0654

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

Comments:

EPA SAMPLE NO.

MBHKG9

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.: MBHK93

Matrix: SOIL Lab Sample ID: P5033-15

% Solids: 76.5 Date Received: 11/27/2024

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	7000		12/16/2024	0658
7440-36-0	Antimony	2.9	J	12/16/2024	0658
7440-38-2	Arsenic	14		12/16/2024	0658
7440-39-3	Barium	92		12/16/2024	0658
7440-41-7	Beryllium	0.69		12/16/2024	0658
7440-43-9	Cadmium	0.79		12/16/2024	0658
7440-70-2	Calcium	9400		12/16/2024	0658
7440-47-3	Chromium	15		12/16/2024	0658
7440-48-4	Cobalt	13	*	12/16/2024	0658
7440-50-8	Copper	38		12/16/2024	0658
7439-89-6	Iron	18000		12/16/2024	0658
7439-92-1	Lead	300		12/16/2024	0658
7439-95-4	Magnesium	3100		12/16/2024	0658
7439-96-5	Manganese	1300		12/16/2024	0658
7440-02-0	Nickel	23		12/16/2024	0658
7440-09-7	Potassium	1100		12/16/2024	0658
7782-49-2	Selenium	3.8	U*	12/16/2024	0658
7440-22-4	Silver	1.1	U*	12/16/2024	0658
7440-23-5	Sodium	550	U	12/16/2024	0658
7440-28-0	Thallium	2.3	J	12/16/2024	0658
7440-62-2	Vanadium	18		12/16/2024	0658
7440-66-6	Zinc	100	*	12/16/2024	0658

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

Comments:

EPA SAMPLE NO.

MBHKH0

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.: MBHK93

Matrix: SOIL Lab Sample ID: P5033-16

% Solids: 81 Date Received: 11/27/2024

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		12/16/2024	0702
7440-36-0	Antimony	2.6	J	12/16/2024	0702
7440-38-2	Arsenic	19		12/16/2024	0702
7440-39-3	Barium	99		12/16/2024	0702
7440-41-7	Beryllium	0.65		12/16/2024	0702
7440-43-9	Cadmium	0.84		12/16/2024	0702
7440-70-2	Calcium	8700		12/16/2024	0702
7440-47-3	Chromium	13		12/16/2024	0702
7440-48-4	Cobalt	14	*	12/16/2024	0702
7440-50-8	Copper	88		12/16/2024	0702
7439-89-6	Iron	16000		12/16/2024	0702
7439-92-1	Lead	420		12/16/2024	0702
7439-95-4	Magnesium	2800		12/16/2024	0702
7439-96-5	Manganese	1500		12/16/2024	0702
7440-02-0	Nickel	24		12/16/2024	0702
7440-09-7	Potassium	950		12/16/2024	0702
7782-49-2	Selenium	3.3	U*	12/16/2024	0702
7440-22-4	Silver	0.94	U*	12/16/2024	0702
7440-23-5	Sodium	470	U	12/16/2024	0702
7440-28-0	Thallium	2.9		12/16/2024	0702
7440-62-2	Vanadium	15		12/16/2024	0702
7440-66-6	Zinc	100	*	12/16/2024	0702

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

Comments:

EPA SAMPLE NO.

MBHKH1

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.: MBHK93

Matrix: SOIL Lab Sample ID: P5033-17

% Solids: 88.2 Date Received: 11/27/2024

Analytical Method: ICP_AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	6800		12/16/2024	0706
7440-36-0	Antimony	2.6	J	12/16/2024	0706
7440-38-2	Arsenic	11		12/16/2024	0706
7440-39-3	Barium	92		12/16/2024	0706
7440-41-7	Beryllium	0.56		12/16/2024	0706
7440-43-9	Cadmium	0.63		12/16/2024	0706
7440-70-2	Calcium	5300		12/16/2024	0706
7440-47-3	Chromium	9.0		12/16/2024	0706
7440-48-4	Cobalt	14	*	12/16/2024	0706
7440-50-8	Copper	27		12/16/2024	0706
7439-89-6	Iron	15000		12/16/2024	0706
7439-92-1	Lead	200		12/16/2024	0706
7439-95-4	Magnesium	1600		12/16/2024	0706
7439-96-5	Manganese	1800		12/16/2024	0706
7440-02-0	Nickel	14		12/16/2024	0706
7440-09-7	Potassium	560		12/16/2024	0706
7782-49-2	Selenium	3.1	U*	12/16/2024	0706
7440-22-4	Silver	0.87	U*	12/16/2024	0706
7440-23-5	Sodium	440	U	12/16/2024	0706
7440-28-0	Thallium	2.7		12/16/2024	0706
7440-62-2	Vanadium	12		12/16/2024	0706
7440-66-6	Zinc	48	*	12/16/2024	0706

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

Comments:

EPA SAMPLE NO.

MBHKH2

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.: MBHK93

Matrix: SOIL Lab Sample ID: P5033-18

% Solids: 89.4 Date Received: 11/27/2024

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		12/16/2024	0710
7440-36-0	Antimony	3.0	J	12/16/2024	0710
7440-38-2	Arsenic	11		12/16/2024	0710
7440-39-3	Barium	71		12/16/2024	0710
7440-41-7	Beryllium	0.64		12/16/2024	0710
7440-43-9	Cadmium	0.63		12/16/2024	0710
7440-70-2	Calcium	3700		12/16/2024	0710
7440-47-3	Chromium	8.7		12/16/2024	0710
7440-48-4	Cobalt	14	*	12/16/2024	0710
7440-50-8	Copper	19		12/16/2024	0710
7439-89-6	Iron	17000		12/16/2024	0710
7439-92-1	Lead	110		12/16/2024	0710
7439-95-4	Magnesium	1500		12/16/2024	0710
7439-96-5	Manganese	1700		12/16/2024	0710
7440-02-0	Nickel	14		12/16/2024	0710
7440-09-7	Potassium	430	J	12/16/2024	0710
7782-49-2	Selenium	0.81	J*	12/16/2024	0710
7440-22-4	Silver	0.90	U*	12/16/2024	0710
7440-23-5	Sodium	450	U	12/16/2024	0710
7440-28-0	Thallium	2.4		12/16/2024	0710
7440-62-2	Vanadium	13		12/16/2024	0710
7440-66-6	Zinc	40	*	12/16/2024	0710

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

Comments:

EPA SAMPLE NO.

MBHKH3

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.: MBHK93

Matrix: SOIL Lab Sample ID: P5033-19

% Solids: 89.1 Date Received: 11/27/2024

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	7200		12/16/2024	0713
7440-36-0	Antimony	3.6	J	12/16/2024	0713
7440-38-2	Arsenic	12		12/16/2024	0713
7440-39-3	Barium	66		12/16/2024	0713
7440-41-7	Beryllium	0.67		12/16/2024	0713
7440-43-9	Cadmium	0.66		12/16/2024	0713
7440-70-2	Calcium	3300		12/16/2024	0713
7440-47-3	Chromium	9.8		12/16/2024	0713
7440-48-4	Cobalt	15	*	12/16/2024	0713
7440-50-8	Copper	23		12/16/2024	0713
7439-89-6	Iron	20000		12/16/2024	0713
7439-92-1	Lead	96		12/16/2024	0713
7439-95-4	Magnesium	1600		12/16/2024	0713
7439-96-5	Manganese	1800		12/16/2024	0713
7440-02-0	Nickel	16		12/16/2024	0713
7440-09-7	Potassium	450		12/16/2024	0713
7782-49-2	Selenium	1.2	J*	12/16/2024	0713
7440-22-4	Silver	0.84	U*	12/16/2024	0713
7440-23-5	Sodium	420	U	12/16/2024	0713
7440-28-0	Thallium	2.2		12/16/2024	0713
7440-62-2	Vanadium	15		12/16/2024	0713
7440-66-6	Zinc	36	*	12/16/2024	0713

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

Comments:

EPA SAMPLE NO.

MBHKP7

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.: MBHK93

Matrix: SOIL Lab Sample ID: P5033-20

% Solids: 89.7 Date Received: 11/27/2024

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		12/16/2024	0717
7440-36-0	Antimony	3.0	J	12/16/2024	0717
7440-38-2	Arsenic	11		12/16/2024	0717
7440-39-3	Barium	71		12/16/2024	0717
7440-41-7	Beryllium	0.62		12/16/2024	0717
7440-43-9	Cadmium	0.62		12/16/2024	0717
7440-70-2	Calcium	4000		12/16/2024	0717
7440-47-3	Chromium	8.9		12/16/2024	0717
7440-48-4	Cobalt	14	*	12/16/2024	0717
7440-50-8	Copper	20		12/16/2024	0717
7439-89-6	Iron	17000		12/16/2024	0717
7439-92-1	Lead	120		12/16/2024	0717
7439-95-4	Magnesium	1600		12/16/2024	0717
7439-96-5	Manganese	1700		12/16/2024	0717
7440-02-0	Nickel	14		12/16/2024	0717
7440-09-7	Potassium	440		12/16/2024	0717
7782-49-2	Selenium	1.1	J*	12/16/2024	0717
7440-22-4	Silver	0.88	U*	12/16/2024	0717
7440-23-5	Sodium	440	U	12/16/2024	0717
7440-28-0	Thallium	2.5		12/16/2024	0717
7440-62-2	Vanadium	13		12/16/2024	0717
7440-66-6	Zinc	35	*	12/16/2024	0717

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

Comments:

EPA SAMPLE NO.

MBHKQ4

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.: MBHK93

Matrix: Water Lab Sample ID: P5033-21

% Solids: Date Received: 11/27/2024

Analytical Method: ICP_AES

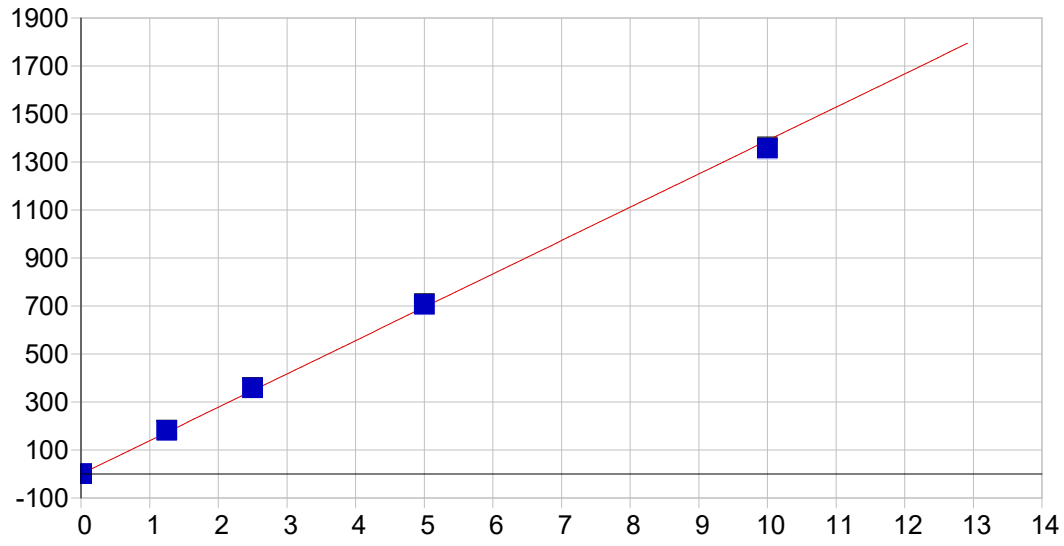
Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	85	J	12/24/2024	0145
7440-36-0	Antimony	60	U	12/24/2024	0145
7440-38-2	Arsenic	5.7	J	12/24/2024	0145
7440-39-3	Barium	200	U	12/24/2024	0145
7440-41-7	Beryllium	5.0	U	12/24/2024	0145
7440-43-9	Cadmium	5.0	U	12/24/2024	0145
7440-70-2	Calcium	5000	U	12/24/2024	0145
7440-47-3	Chromium	10	U	12/24/2024	0145
7440-48-4	Cobalt	50	U	12/24/2024	0145
7440-50-8	Copper	25	U	12/24/2024	0145
7439-89-6	Iron	32	J	12/24/2024	0145
7439-92-1	Lead	10	U	12/24/2024	0145
7439-95-4	Magnesium	5000	U	12/24/2024	0145
7439-96-5	Manganese	5.3	J	12/24/2024	0145
7440-02-0	Nickel	40	U	12/24/2024	0145
7440-09-7	Potassium	5000	U	12/24/2024	0145
7782-49-2	Selenium	35	U	12/24/2024	0145
7440-22-4	Silver	10	U	12/24/2024	0145
7440-23-5	Sodium	5000	U	12/24/2024	0145
7440-28-0	Thallium	25	U	12/24/2024	0145
7440-62-2	Vanadium	50	U	12/24/2024	0145
7440-66-6	Zinc	8.9	J	12/24/2024	0145

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

Comments:

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5



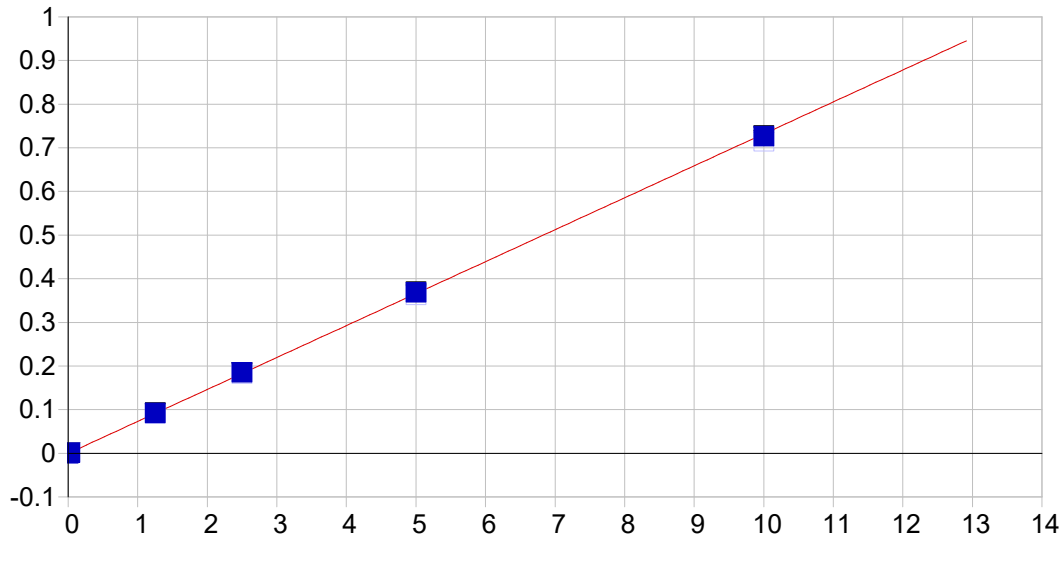
As 189.042 {478}

Date of Fit:	12/15/2024 5:38:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.050262	Re-Slope:	1.000000
A1 (Gain):	138.943569	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999669	Status:	OK.
Std Error of Est:	0.059665		
Predicted MDL:	0.005088		
Predicted MQL:	0.016960		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.05065	.144	1
S1	.01000	.01204	.002	20.4	1.6204	.626	1
S2	1.2500	1.3064	.056	4.51	180.74	1.14	1
S3	2.5000	2.5843	.084	3.37	357.56	.641	1
S4	5.0000	5.0834	.083	1.67	703.34	2.69	1
S5	10.000	9.7739	-.226	-2.26	1352.1	5.06	1

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5



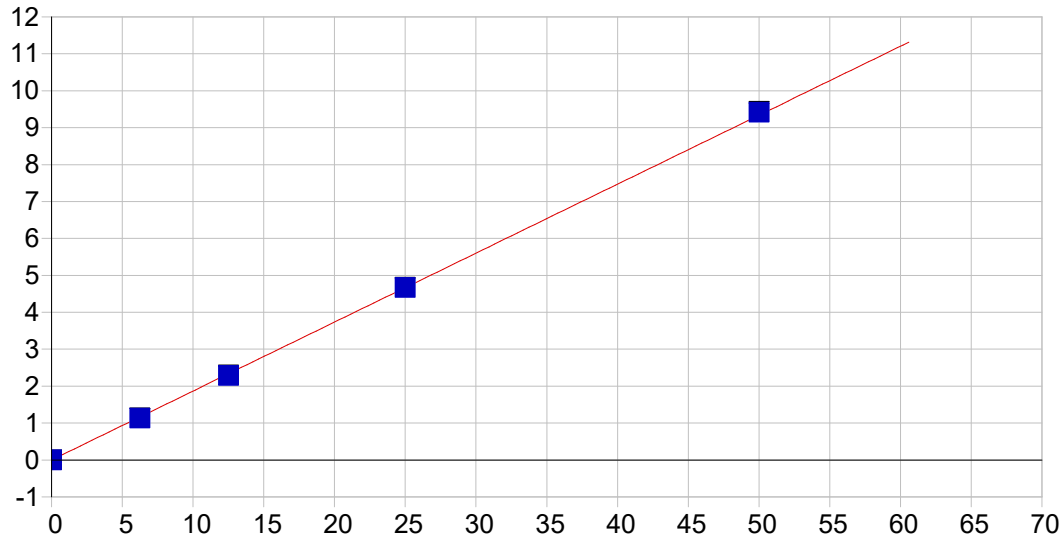
Tl 190.856 {477}

Date of Fit:	12/15/2024 5:38:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000166	Re-Slope:	1.000000
A1 (Gain):	0.073211	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999961	Status:	OK.
Std Error of Est:	0.000017		
Predicted MDL:	0.002722		
Predicted MQL:	0.009073		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00017	.000	1
S1	.02500	.02358	-.001	-5.66	.00149	.000	1
S2	1.2500	1.2590	.009	.720	.09059	.001	1
S3	2.5000	2.5322	.032	1.29	.18239	.000	1
S4	5.0000	5.0370	.037	.741	.36293	.001	1
S5	10.000	9.9231	-.077	-.769	.71498	.002	1

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5



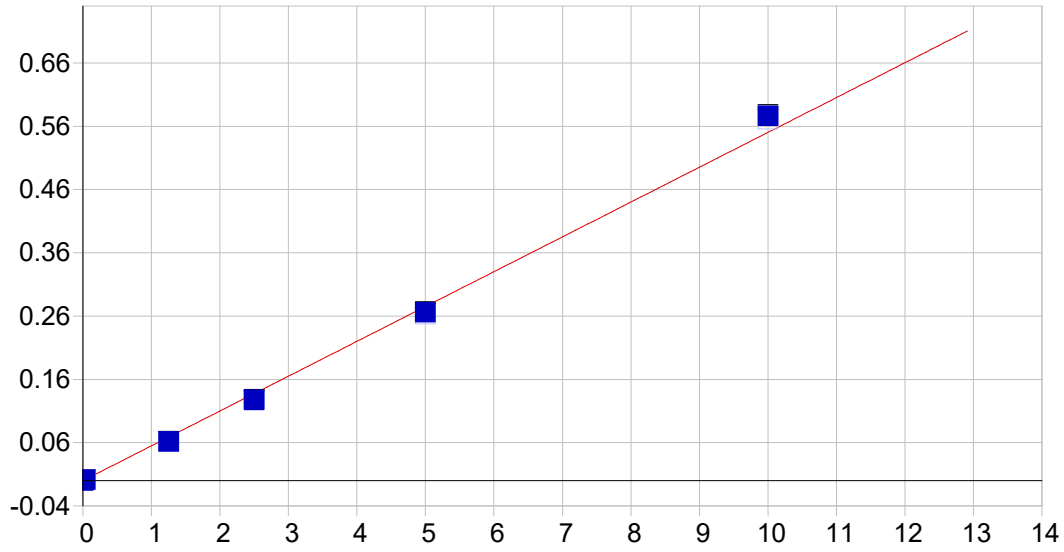
Pb 220.353 {453}

Date of Fit:	12/15/2024 5:38:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000125	Re-Slope:	1.000000
A1 (Gain):	0.186745	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999921	Status:	OK.
Std Error of Est:	0.000088		
Predicted MDL:	0.002456		
Predicted MQL:	0.008186		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00013	.001	1
S1	.01000	.01030	.000	2.99	.00204	.000	1
S2	6.2500	6.0554	-.195	-3.11	1.1298	.001	1
S3	12.500	12.254	-.246	-1.97	2.2864	.009	1
S4	25.000	25.000	-.000	-.001	4.6643	.011	1
S5	50.000	50.440	.440	.880	9.4109	.025	1

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5



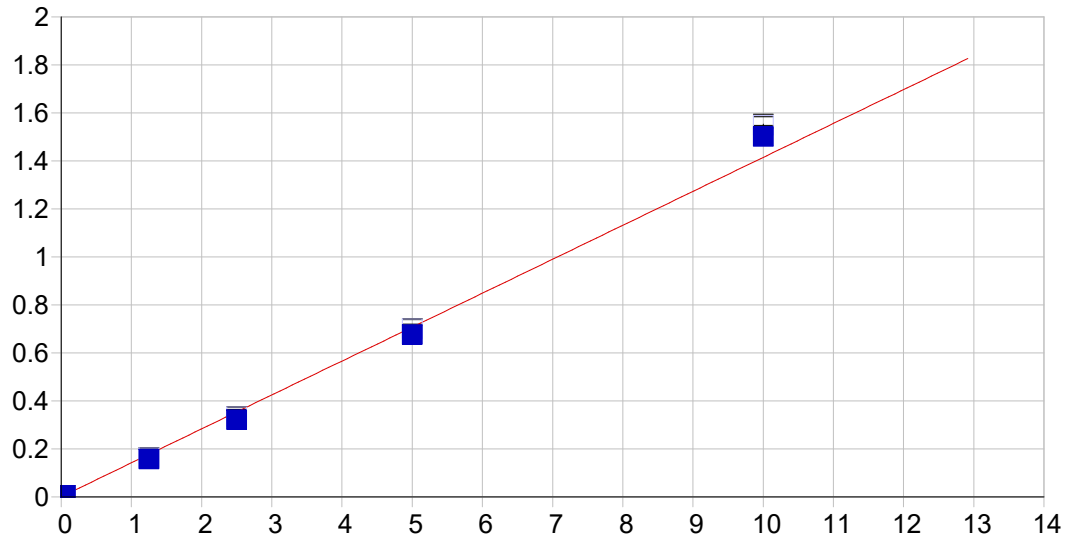
Se 196.090 {472}

Date of Fit:	12/15/2024 5:38:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000118	Re-Slope:	1.000000
A1 (Gain):	0.055046	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998485	Status:	OK.
Std Error of Est:	0.000094		
Predicted MDL:	0.005122		
Predicted MQL:	0.017075		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00012	.000	1
S1	.03500	.02614	-.009	-25.3	.00132	.000	1
S2	1.2500	1.1261	-.124	-9.91	.06115	.000	1
S3	2.5000	2.3224	-.178	-7.11	.12627	.001	1
S4	5.0000	4.8310	-.169	-3.38	.26292	.001	1
S5	10.000	10.479	.479	4.79	.57096	.002	1

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5



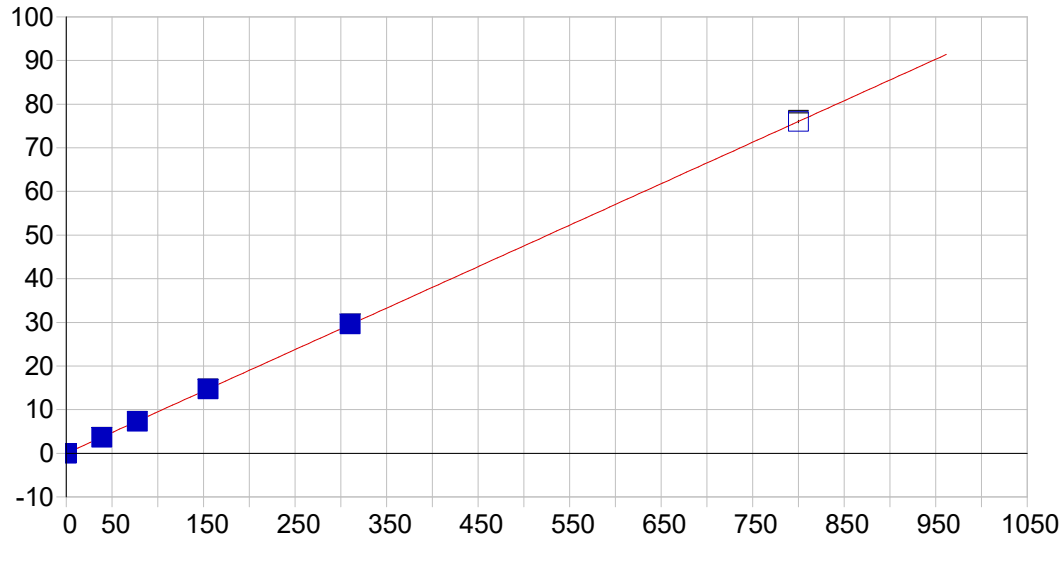
Sb 206.833 {463}

Date of Fit:	12/15/2024 5:38:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000587	Re-Slope:	1.000000
A1 (Gain):	0.141381	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.997816	Status:	OK.
Std Error of Est:	0.000398		
Predicted MDL:	0.002776		
Predicted MQL:	0.009253		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	.00059	.000	1
S1	.06000	.04767	-.012	-20.5	.00733	.000	1
S2	1.2500	1.1070	-.143	-11.4	.16300	.001	1
S3	2.5000	2.2666	-.233	-9.33	.33286	.002	1
S4	5.0000	4.7771	-.223	-4.46	.69961	.002	1
S5	10.000	10.611	.611	6.11	1.5481	.006	1

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5



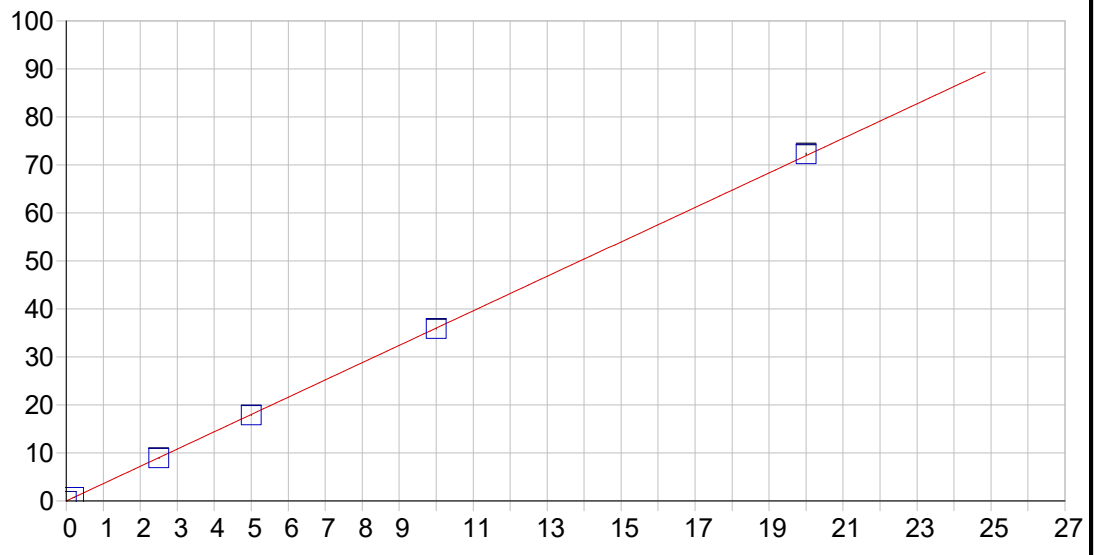
Al 396.152 { 85}

Date of Fit:	12/15/2024 5:38:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000557	Re-Slope:	1.000000
A1 (Gain):	0.095047	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999994	Status:	OK.
Std Error of Est:	0.000202		
Predicted MDL:	0.023391		
Predicted MQL:	0.077970		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	-.00056	.002	1
S1	.20000	.18401	-.016	-7.99	.01696	.001	1
S2	38.750	38.536	-.214	-.553	3.6661	.006	1
S3	77.500	76.871	-.629	-.811	7.3138	.009	1
S4	155.00	154.58	-.423	-.273	14.707	.035	1
S5	310.00	311.52	1.52	.490	29.640	.036	1
S6	800.00	799.76	-.235	-.029	76.014	.305	1

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5



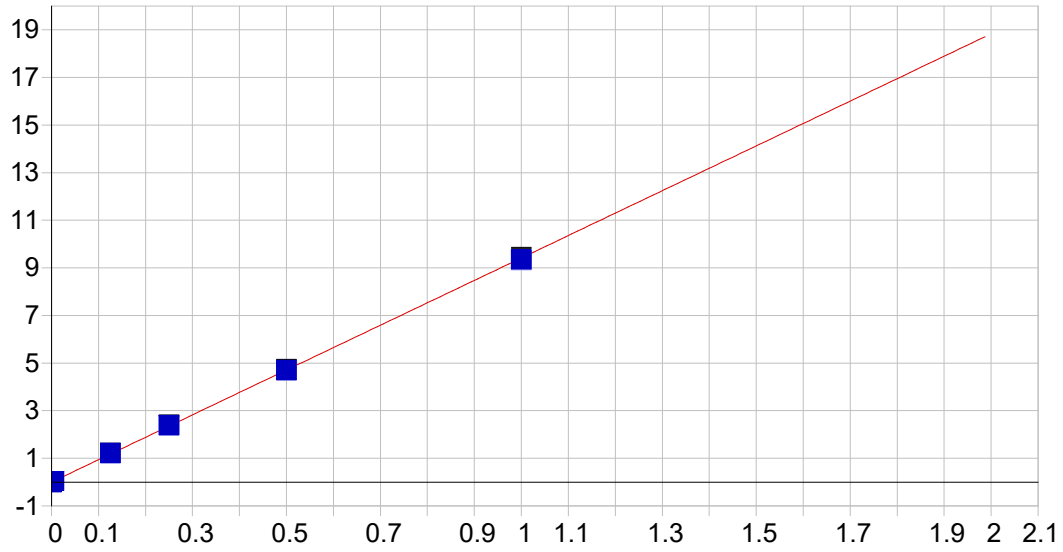
Ba 493.409 { 68}

Date of Fit:	12/15/2024 5:38:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.016437	Re-Slope:	1.000000
A1 (Gain):	3.596620	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999986	Status:	OK.
Std Error of Est:	0.002024		
Predicted MDL:	0.001151		
Predicted MQL:	0.003838		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.01646	.005	1
S1	.20000	.19711	-.003	-1.44	.72538	.006	1
S2	2.5000	2.4827	-.017	-.692	8.9457	.013	1
S3	5.0000	4.9586	-.041	-.828	17.851	.029	1
S4	10.000	9.9672	-.033	-.328	35.865	.066	1
S5	20.000	20.094	.094	.472	72.288	.177	1

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5



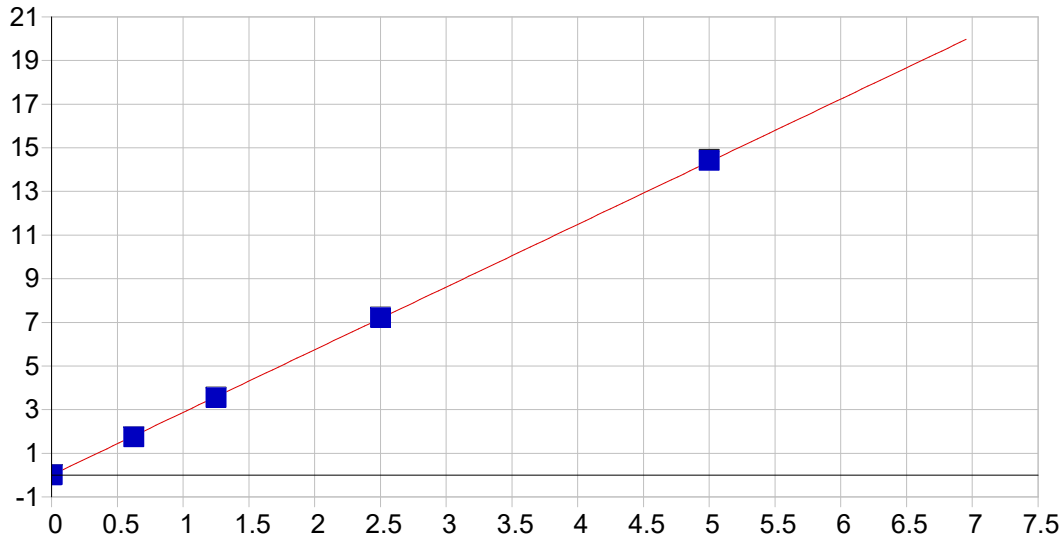
Be 234.861 {144}

Date of Fit:	12/15/2024 5:38:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000152	Re-Slope:	1.000000
A1 (Gain):	9.416802	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999947	Status:	OK.
Std Error of Est:	0.000364		
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	-.00015	.001	1
S1	.00500	.00502	.000	.398	.04708	.001	1
S2	.12500	.12878	.004	3.02	1.2071	.002	1
S3	.25000	.25317	.003	1.27	2.3731	.020	1
S4	.50000	.49970	-.000	-.059	4.6839	.034	1
S5	1.0000	.99333	-.007	-.667	9.3106	.090	1

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5



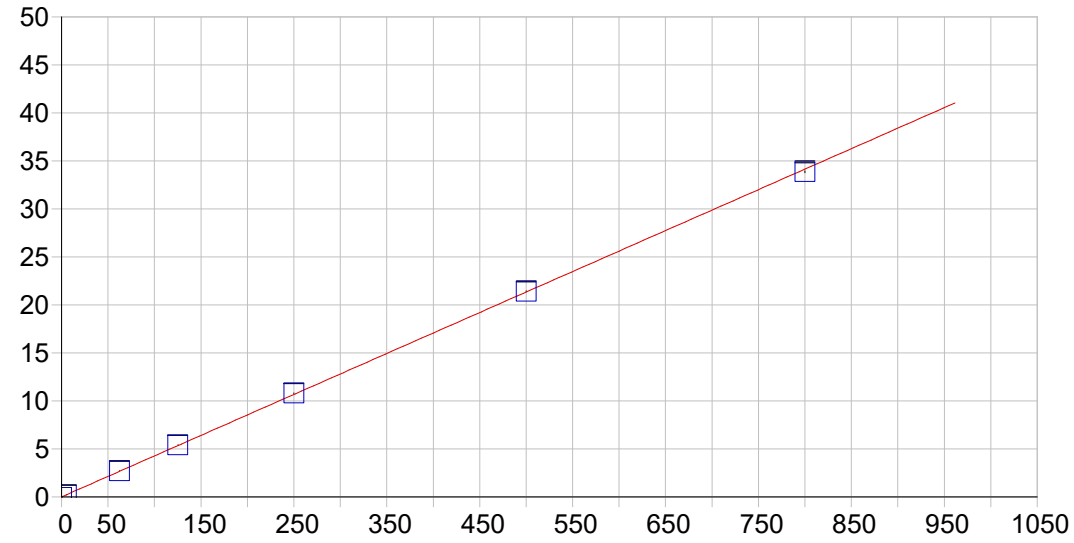
Cd 214.438 {457}

Date of Fit:	12/15/2024 5:38:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000045	Re-Slope:	1.000000
A1 (Gain):	2.872245	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999960	Status:	OK.
Std Error of Est:	0.000215		
Predicted MDL:	0.000107		
Predicted MQL:	0.000357		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00004	.000	1
S1	.00500	.00454	-.000	-9.26	.01304	.000	1
S2	.62500	.60853	-.016	-2.64	1.7505	.005	1
S3	1.2500	1.2366	-.013	-1.07	3.5573	.013	1
S4	2.5000	2.5123	.012	.491	7.2269	.018	1
S5	5.0000	5.0180	.018	.361	14.435	.037	1

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5



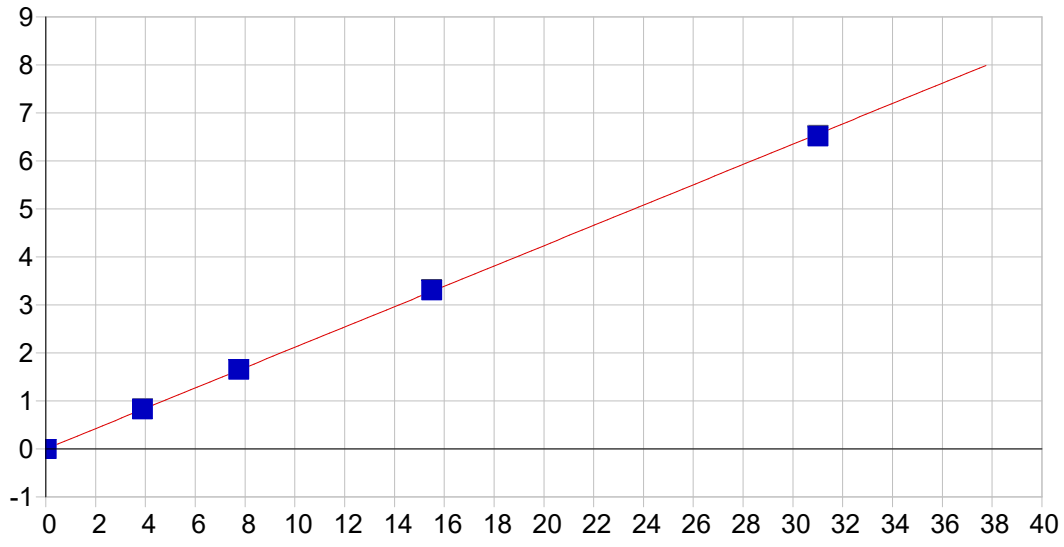
Ca 373.690 { 90}

Date of Fit:	12/15/2024 5:38:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004690	Re-Slope:	1.000000
A1 (Gain):	0.042674	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999965	Status:	OK.
Std Error of Est:	0.001249		
Predicted MDL:	0.040888		
Predicted MQL:	0.136293		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00012	-.000	.000	.00468	.001	1
S1	5.0000	4.9632	-.037	-.736	.21649	.003	1
S2	62.500	63.404	.904	1.45	2.7104	.009	1
S3	125.00	126.55	1.55	1.24	5.4049	.008	1
S4	250.00	252.64	2.64	1.06	10.786	.034	1
S5	500.00	501.67	1.67	.335	21.413	.053	1
S6	800.00	793.27	-6.73	-.841	33.857	.098	1

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5



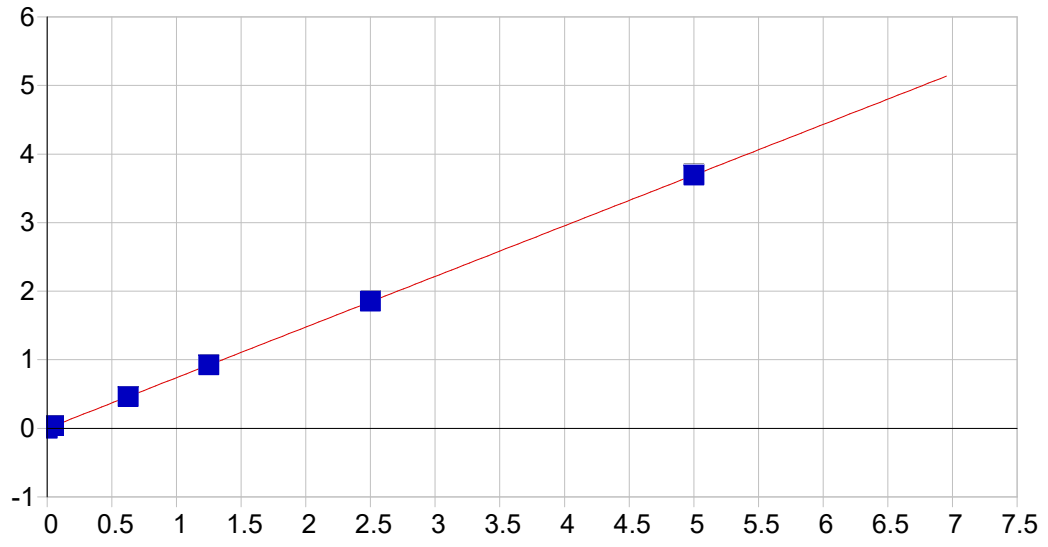
Cr 267.716 {126}

Date of Fit:	12/15/2024 5:38:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000038	Re-Slope:	1.000000
A1 (Gain):	0.211651	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999967	Status:	OK.
Std Error of Est:	0.000051		
Predicted MDL:	0.000910		
Predicted MQL:	0.003034		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00004	.000	1
S1	.01000	.00989	-.000	-1.12	.00213	.000	1
S2	3.8750	3.9210	.046	1.19	.83057	.002	1
S3	7.7500	7.8127	.063	.810	1.6549	.001	1
S4	15.500	15.625	.125	.807	3.3096	.000	1
S5	31.000	30.766	-.234	-.754	6.5168	.016	1

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5



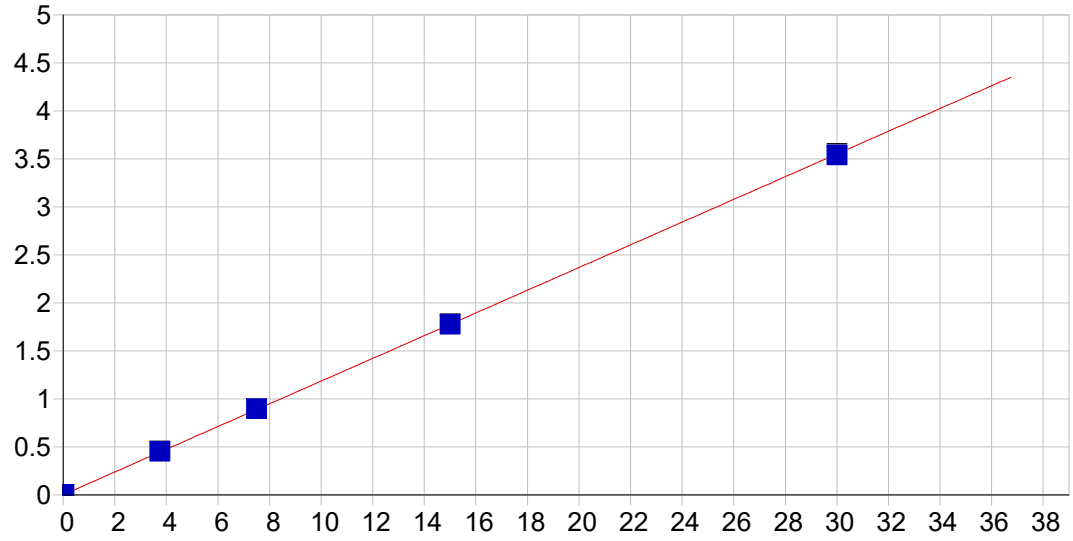
Co 228.616 {448}

Date of Fit:	12/15/2024 5:38:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000014	Re-Slope:	1.000000
A1 (Gain):	0.738523	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999992	Status:	OK.
Std Error of Est:	0.000078		
Predicted MDL:	0.000456		
Predicted MQL:	0.001519		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00002	.000	1
S1	.05000	.04773	-.002	-4.53	.03539	.001	1
S2	.62500	.62238	-.003	-.419	.46114	.002	1
S3	1.2500	1.2485	-.002	-.123	.92501	.003	1
S4	2.5000	2.5088	.009	.351	1.8588	.003	1
S5	5.0000	4.9976	-.002	-.047	3.7028	.008	1

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5



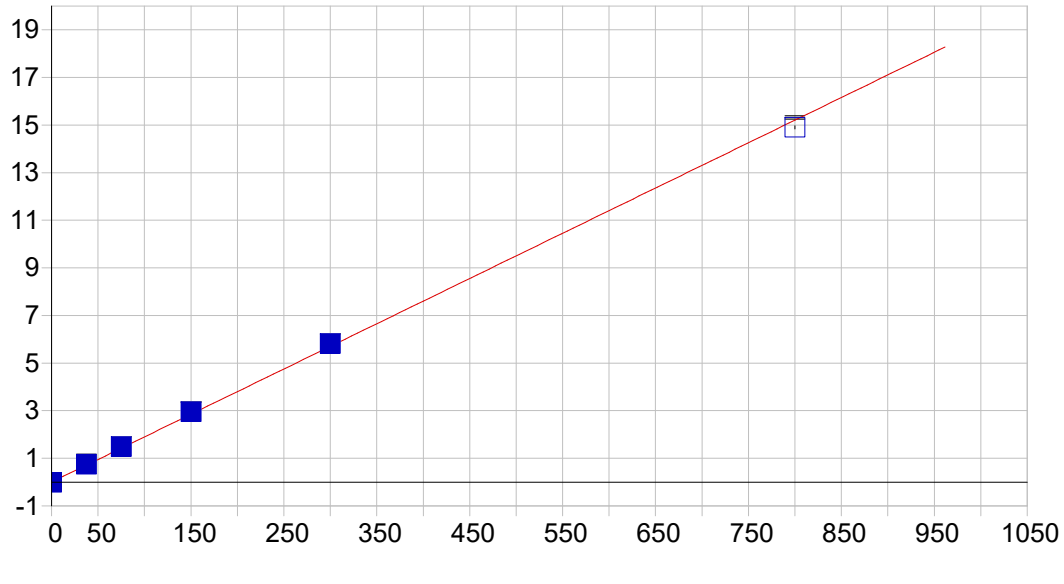
Cu 324.754 {104}

Date of Fit:	12/15/2024 5:38:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002327	Re-Slope:	1.000000
A1 (Gain):	0.118307	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999984	Status:	OK.
Std Error of Est:	0.000031		
Predicted MDL:	0.008816		
Predicted MQL:	0.029386		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00233	.000	1
S1	.02500	.02368	-.001	-5.27	.00513	.000	1
S2	3.7500	3.8130	.063	1.68	.45338	.002	1
S3	7.5000	7.5477	.048	.636	.89517	.003	1
S4	15.000	14.995	-.005	-.034	1.7761	.003	1
S5	30.000	29.896	-.104	-.348	3.5388	.014	1

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5



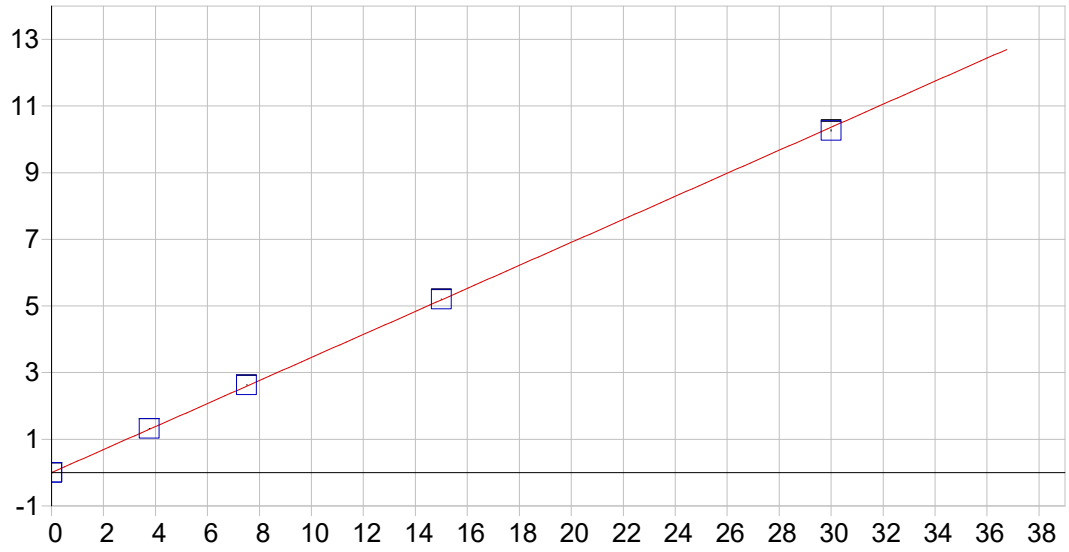
Fe 259.837 {130}

Date of Fit:	12/15/2024 5:38:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000016	Re-Slope:	1.000000
A1 (Gain):	0.019008	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999701	Status:	OK.
Std Error of Est:	0.000203		
Predicted MDL:	0.035805		
Predicted MQL:	0.119348		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00002	.000	1
S1	.10000	.07842	-.022	-21.6	.00151	.000	1
S2	37.500	39.261	1.76	4.70	.74645	.003	1
S3	75.000	78.077	3.08	4.10	1.4845	.004	1
S4	150.00	155.17	5.17	3.45	2.9502	.006	1
S5	300.00	305.78	5.78	1.93	5.8137	.006	1
S6	800.00	784.22	-15.8	-1.97	14.907	.068	1

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5



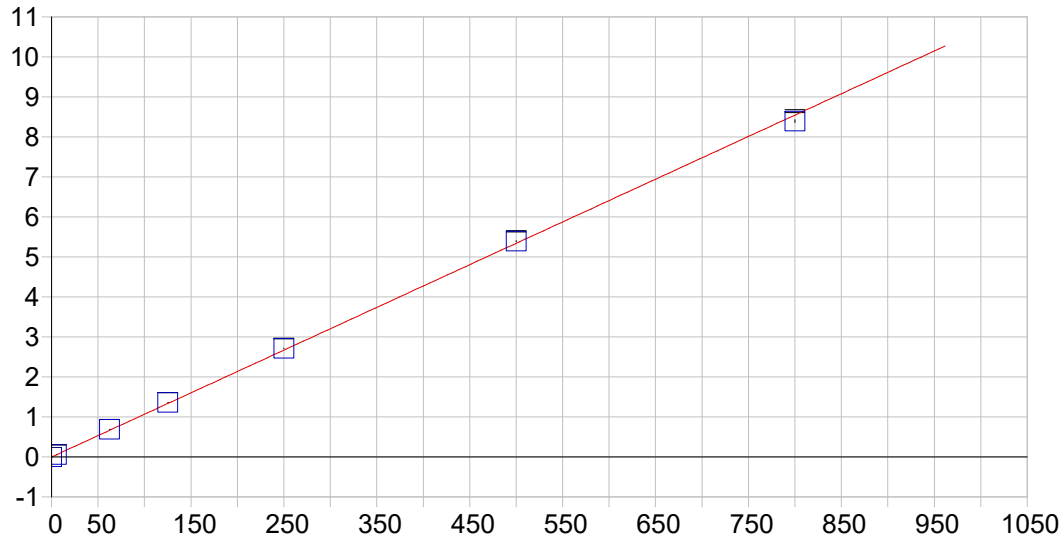
Mn 257.610 {131}

Date of Fit:	12/15/2024 5:38:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000355	Re-Slope:	1.000000
A1 (Gain):	0.345463	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999939	Status:	OK.
Std Error of Est:	0.000136		
Predicted MDL:	0.001622		
Predicted MQL:	0.005406		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00036	.000	1
S1	.01500	.01660	.002	10.7	.00538	.000	1
S2	3.7500	3.8408	.091	2.42	1.3265	.001	1
S3	7.5000	7.6132	.113	1.51	2.6297	.004	1
S4	15.000	15.069	.069	.457	5.2053	.012	1
S5	30.000	29.726	-.274	-.914	10.269	.023	1

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5



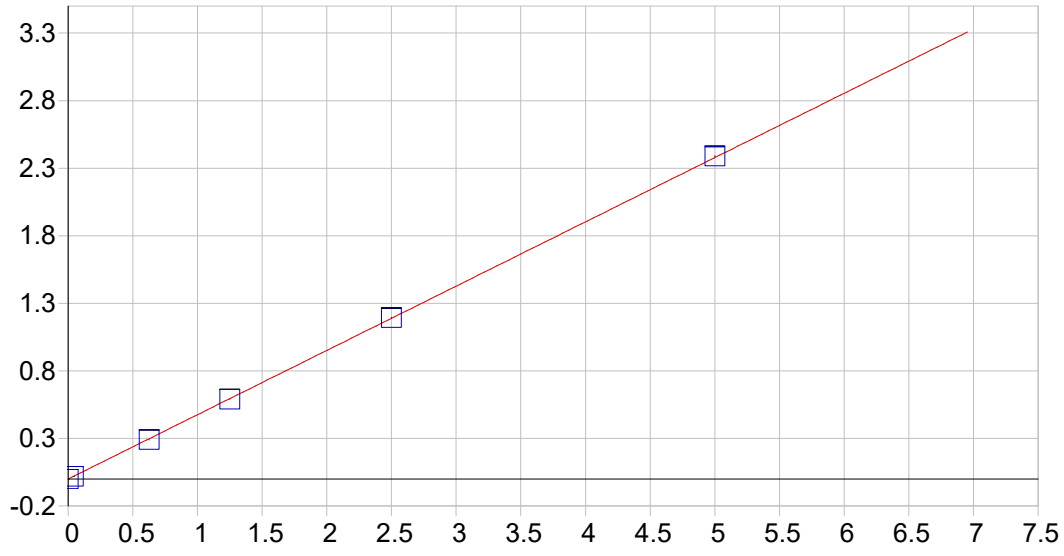
Mg 279.079 {121}

Date of Fit:	12/15/2024 5:38:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001688	Re-Slope:	1.000000
A1 (Gain):	0.010684	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999856	Status:	OK.
Std Error of Est:	0.000633		
Predicted MDL:	0.071982		
Predicted MQL:	0.239939		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00057	-.001	.000	-.00169	.001	1
S1	5.0000	5.2479	.248	4.96	.05438	.000	1
S2	62.500	64.575	2.07	3.32	.68821	.000	1
S3	125.00	127.67	2.67	2.14	1.3623	.001	1
S4	250.00	254.19	4.19	1.68	2.7140	.007	1
S5	500.00	504.85	4.85	.971	5.3921	.013	1
S6	800.00	785.96	-14.0	-1.75	8.3953	.034	1

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5



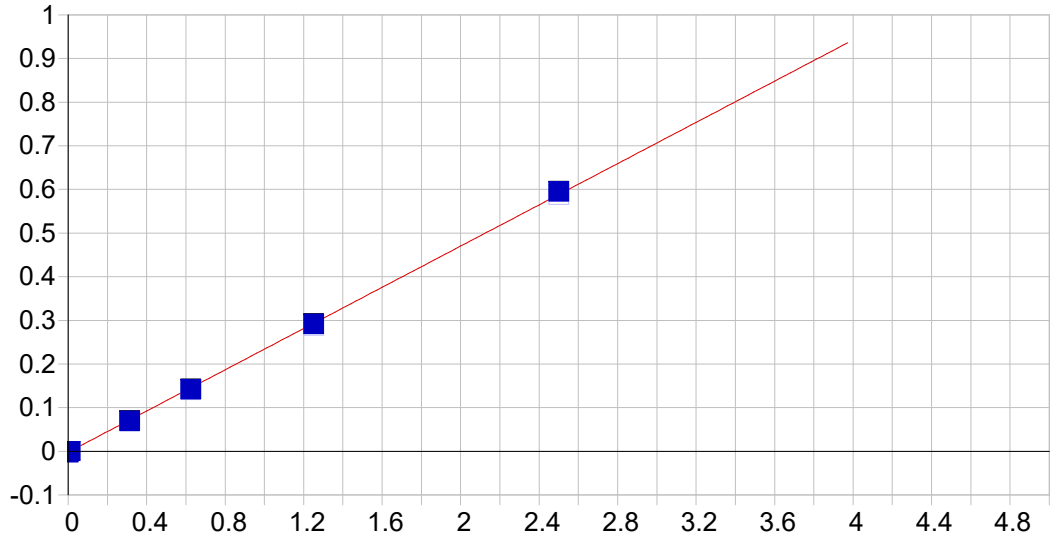
Ni 231.604 {446}

Date of Fit:	12/15/2024 5:38:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000462	Re-Slope:	1.000000
A1 (Gain):	0.475765	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999962	Status:	OK.
Std Error of Est:	0.000098		
Predicted MDL:	0.000735		
Predicted MQL:	0.002449		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00046	.000	1
S1	.04000	.03760	-.002	-6.01	.01743	.000	1
S2	.62500	.60962	-.015	-2.46	.28957	.001	1
S3	1.2500	1.2397	-.010	-.827	.58933	.001	1
S4	2.5000	2.5080	.008	.322	1.1928	.004	1
S5	5.0000	5.0201	.020	.402	2.3879	.004	1

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

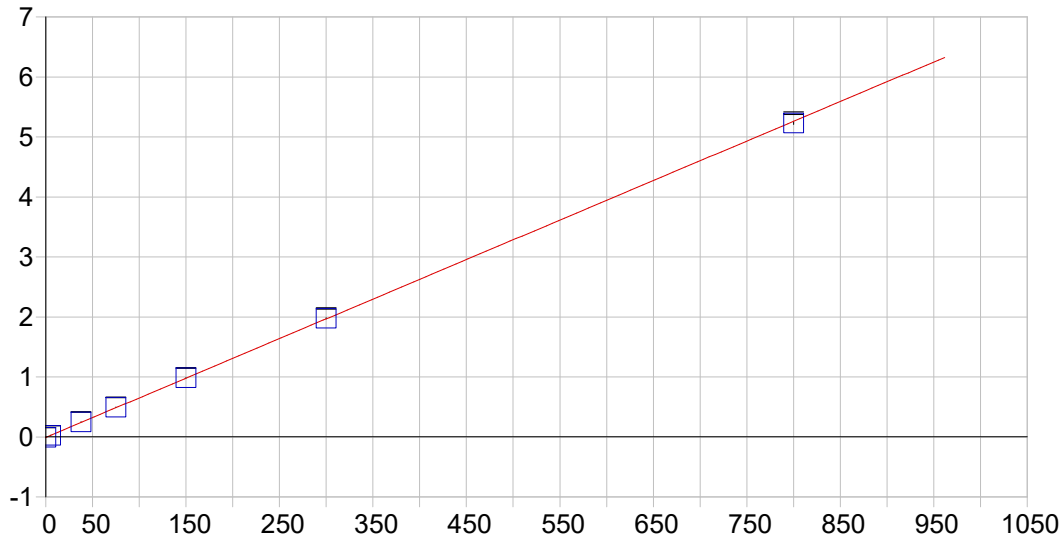


Ag 328.068 {103}

Date of Fit:	12/15/2024 5:38:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.002188	Re-Slope:	1.000000
A1 (Gain):	0.236213	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999906	Status:	OK.
Std Error of Est:	0.000027		
Predicted MDL:	0.001216		
Predicted MQL:	0.004052		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00219	.000	1
S1	.01000	.00979	-.000	-2.10	.00012	.000	1
S2	.31250	.30430	-.008	-2.62	.06881	.001	1
S3	.62500	.61139	-.014	-2.18	.14046	.000	1
S4	1.2500	1.2438	-.006	-.493	.28808	.000	1
S5	2.5000	2.5282	.028	1.13	.58791	.001	1

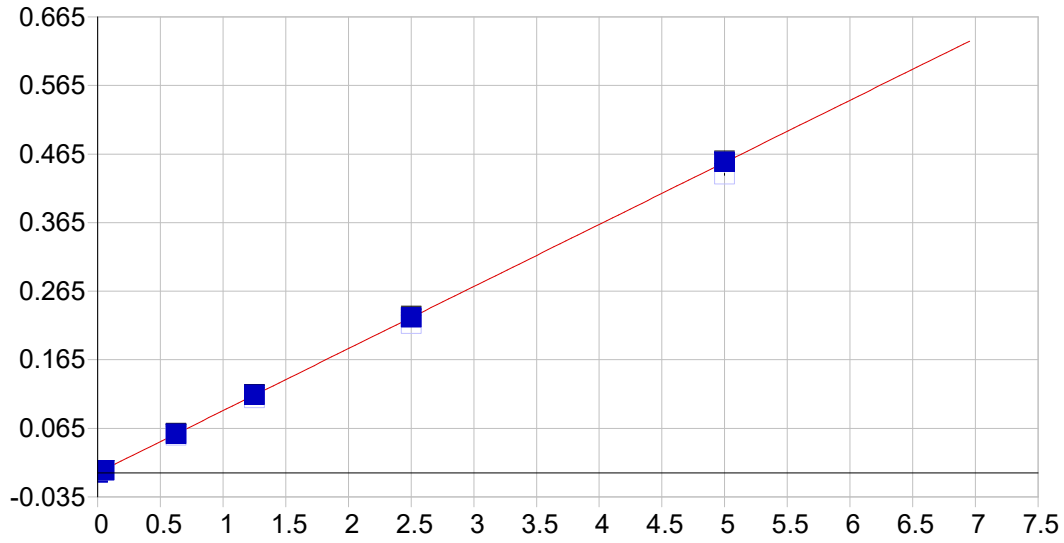


Na 818.326 { 41}

Date of Fit:	12/15/2024 5:38:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.008367	Re-Slope:	1.000000
A1 (Gain):	0.006586	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999954	Status:	OK.
Std Error of Est:	0.000196		
Predicted MDL:	0.733123		
Predicted MQL:	2.443744		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00022	-.000	.000	-.00837	.006	1
S1	5.0000	4.9094	-.091	-1.81	.02397	.004	1
S2	37.500	39.178	1.68	4.47	.24966	.002	1
S3	75.000	75.945	.945	1.26	.49180	.006	1
S4	150.00	150.79	.788	.525	.98471	.004	1
S5	300.00	301.39	1.39	.465	1.9766	.010	1
S6	800.00	795.29	-4.71	-.589	5.2293	.022	1



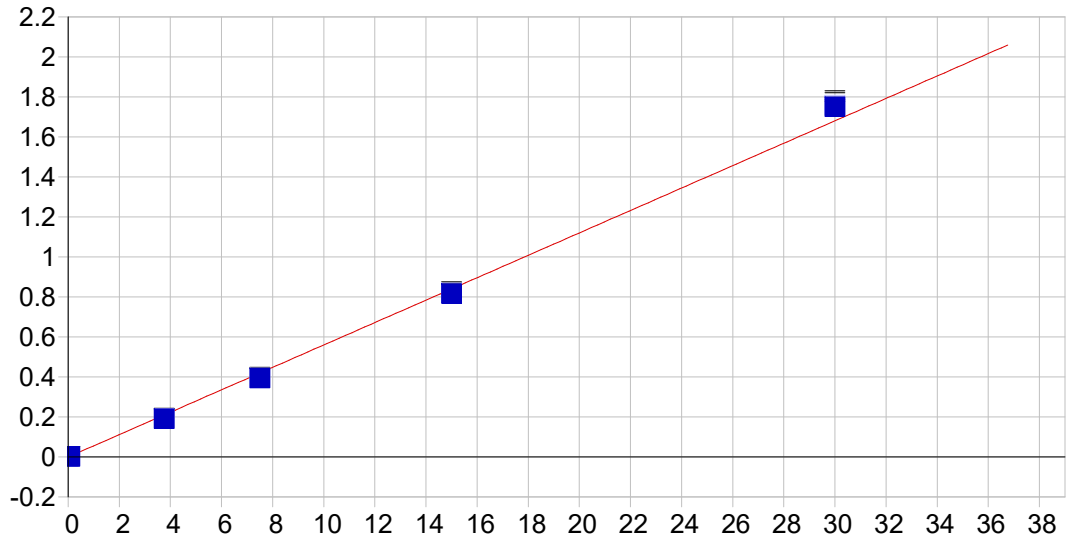
V 292.402 {115}

Date of Fit:	12/15/2024 5:38:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000246	Re-Slope:	1.000000
A1 (Gain):	0.090525	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999793	Status:	OK.
Std Error of Est:	0.000047		
Predicted MDL:	0.011563		
Predicted MQL:	0.038545		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00025	.001	1
S1	.05000	.03663	-.013	-26.7	.00355	.000	1
S2	.62500	.62738	.002	.381	.05477	.001	1
S3	1.2500	1.2531	.003	.245	.10914	.001	1
S4	2.5000	2.5016	.002	.066	.21764	.002	1
S5	5.0000	5.0068	.007	.136	.43534	.001	1

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5



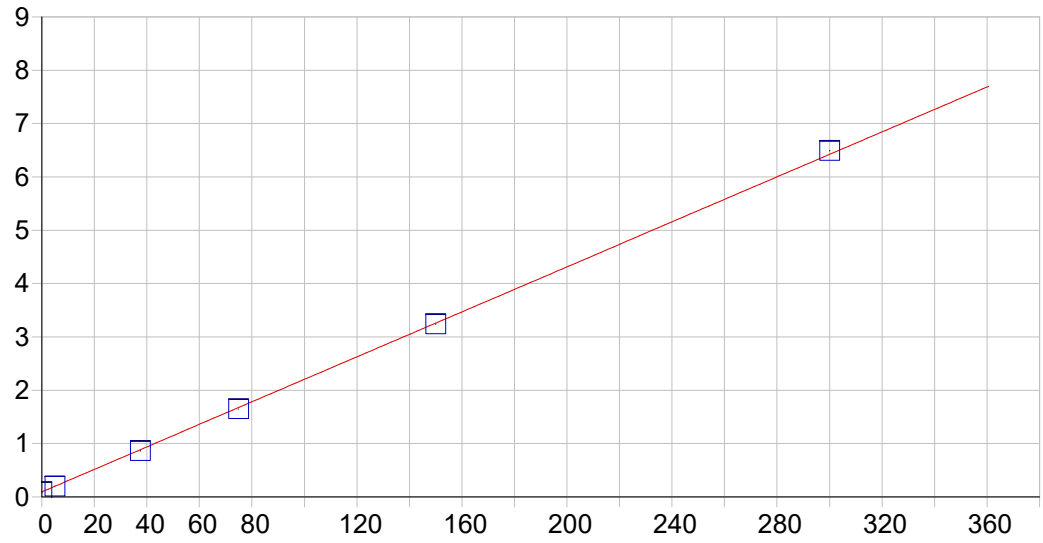
Zn 213.856 {158}

Date of Fit:	12/15/2024 5:38:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000647	Re-Slope:	1.000000
A1 (Gain):	0.056038	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998911	Status:	OK.
Std Error of Est:	0.000187		
Predicted MDL:	0.008963		
Predicted MQL:	0.029878		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	-.00065	.001	1
S1	.06000	.05008	-.010	-16.5	.00217	.000	1
S2	3.7500	3.4210	-.329	-8.77	.19209	.001	1
S3	7.5000	7.0243	-.476	-6.34	.39504	.003	1
S4	15.000	14.574	-.426	-2.84	.82018	.005	1
S5	30.000	31.240	1.24	4.13	1.7582	.022	1

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5



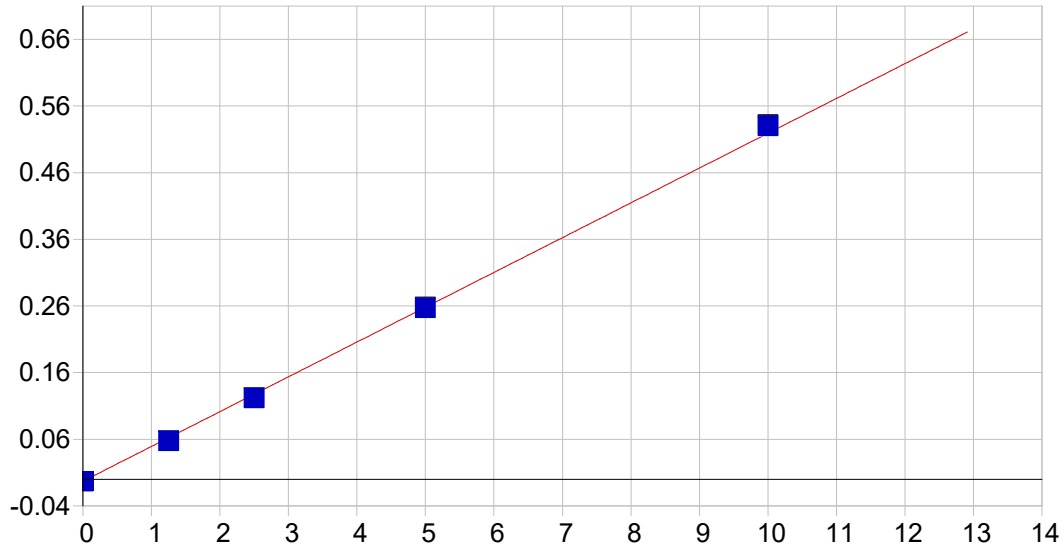
K 769.896 { 44}

Date of Fit:	12/15/2024 5:38:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.095027	Re-Slope:	1.000000
A1 (Gain):	0.021092	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999919	Status:	OK.
Std Error of Est:	0.000552		
Predicted MDL:	0.173577		
Predicted MQL:	0.578592		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00020	.000	.000	.09503	.003	1
S1	5.0000	4.9921	-.008	-.158	.20032	.001	1
S2	37.500	36.522	-.978	-2.61	.86536	.005	1
S3	75.000	73.667	-1.33	-1.78	1.6488	.003	1
S4	150.00	149.03	-.970	-.647	3.2384	.005	1
S5	300.00	303.29	3.29	1.10	6.4921	.008	1

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5



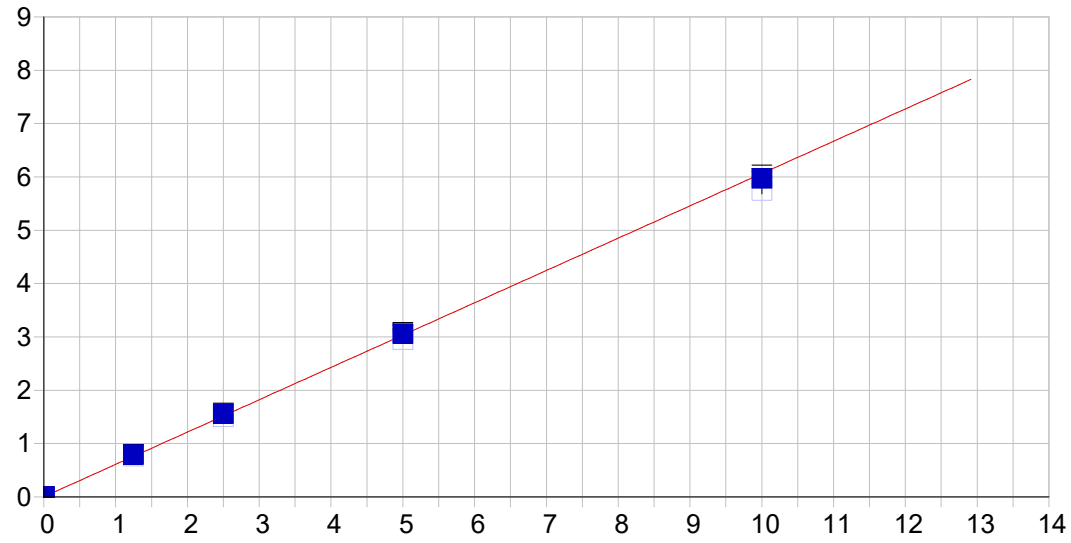
P 177.495 {490}

Date of Fit:	12/15/2024 5:38:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.002987	Re-Slope:	1.000000
A1 (Gain):	0.052213	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999572	Status:	OK.
Std Error of Est:	0.000026		
Predicted MDL:	0.002764		
Predicted MQL:	0.009213		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00299	.000	1
S1	.01000	.00854	-.001	-14.6	-.00254	.000	1
S2	1.2500	1.1598	-.090	-7.22	.05747	.000	1
S3	2.5000	2.3919	-.108	-4.33	.12171	.000	1
S4	5.0000	4.9859	-.014	-.282	.25696	.001	1
S5	10.000	10.214	.214	2.14	.52955	.002	1

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5



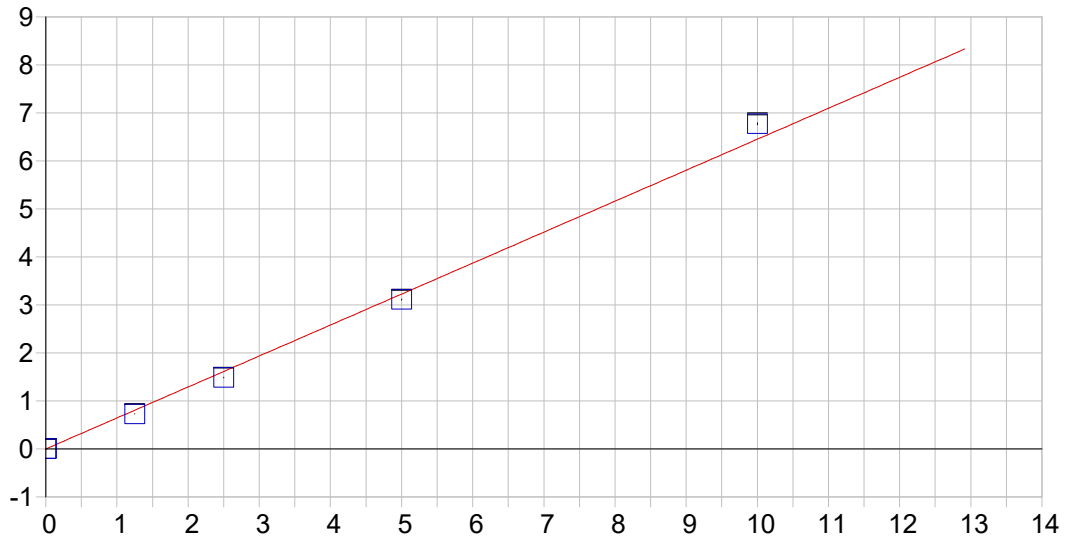
B 249.678 {135}

Date of Fit:	12/15/2024 5:38:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004096	Re-Slope:	1.000000
A1 (Gain):	0.605905	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999482	Status:	OK.
Std Error of Est:	0.000315		
Predicted MDL:	0.002356		
Predicted MQL:	0.007854		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00410	.001	1
S1	.01000	-.00073	-.011	-107.	.00362	.002	1
S2	1.2500	1.3013	.051	4.10	.76376	.003	1
S3	2.5000	2.5677	.068	2.71	1.5023	.014	1
S4	5.0000	5.0409	.041	.818	2.9432	.023	1
S5	10.000	9.8512	-.149	-1.49	5.7426	.061	1

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

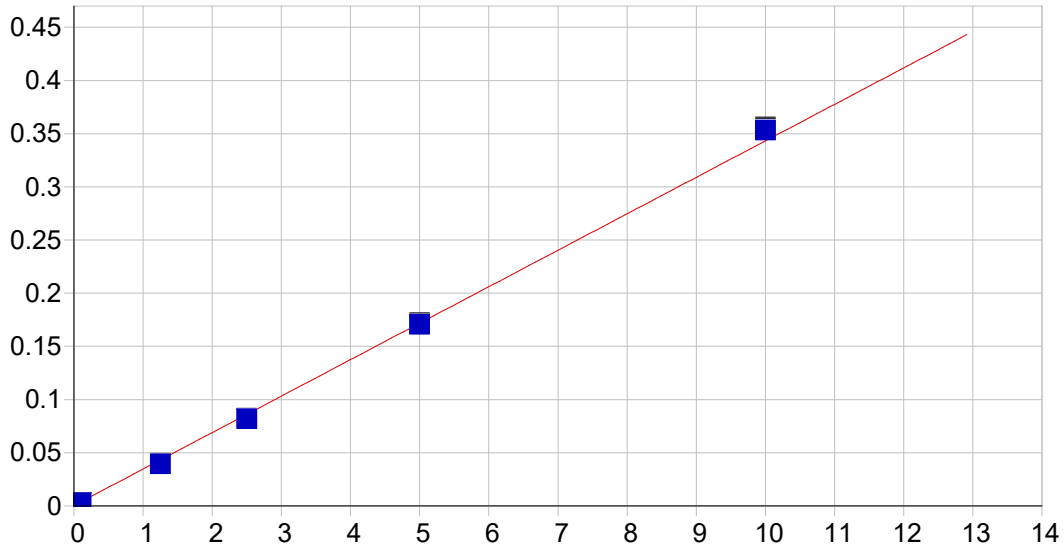


Mo 202.030 {467}

Date of Fit:	12/15/2024 5:38:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000115	Re-Slope:	1.000000
A1 (Gain):	0.645140	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998461	Status:	OK.
Std Error of Est:	0.000601		
Predicted MDL:	0.000492		
Predicted MQL:	0.001640		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00012	.000	1
S1	.01000	.00883	-.001	-11.7	.00581	.000	1
S2	1.2500	1.1302	-.120	-9.59	.72923	.002	1
S3	2.5000	2.3039	-.196	-7.85	1.4864	.007	1
S4	5.0000	4.8219	-.178	-3.56	3.1109	.008	1
S5	10.000	10.495	.495	4.95	6.7710	.020	1



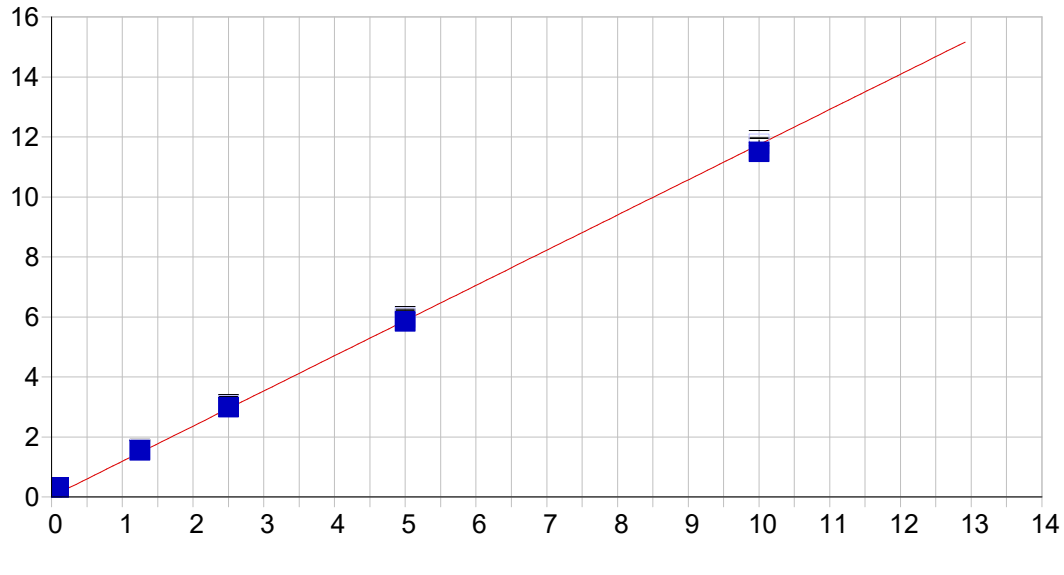
S 182.034 {485}

Date of Fit:	12/15/2024 5:38:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000397	Re-Slope:	1.000000
A1 (Gain):	0.034283	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999235	Status:	OK.
Std Error of Est:	0.000072		
Predicted MDL:	0.004855		
Predicted MQL:	0.016183		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00003	.000	.000	.00040	.000	1
S1	.10000	.07924	-.021	-20.8	.00311	.000	1
S2	1.2500	1.1390	-.111	-8.88	.03958	.001	1
S3	2.5000	2.3738	-.126	-5.05	.08205	.000	1
S4	5.0000	4.9691	-.031	-.617	.17131	.001	1
S5	10.000	10.289	.289	2.89	.35423	.002	1

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5



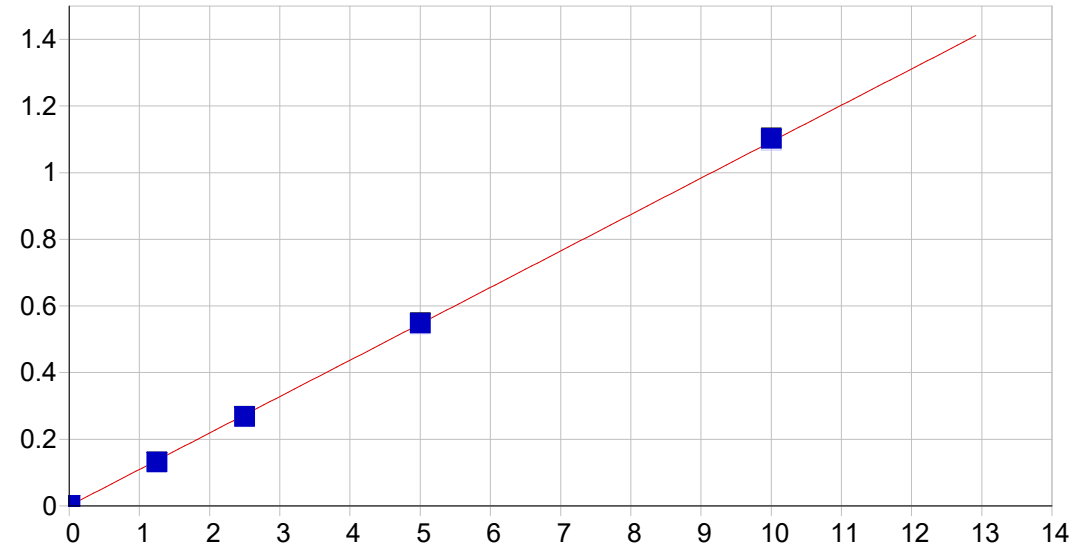
Si 251.611 {134}

Date of Fit:	12/15/2024 5:38:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.013392	Re-Slope:	1.000000
A1 (Gain):	1.172886	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.993922	Status:	OK.
Std Error of Est:	0.007060		
Predicted MDL:	0.001154		
Predicted MQL:	0.003845		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00016	-.000	.000	.01321	.001	1
S1	.10000	.25296	.153	153.	.31174	.002	1
S2	1.2500	1.3075	.057	4.60	1.5802	.009	1
S3	2.5000	2.5311	.031	1.24	3.0486	.034	1
S4	5.0000	4.9699	-.030	-.601	5.9757	.041	1
S5	10.000	9.7898	-.210	-2.10	11.762	.122	1

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

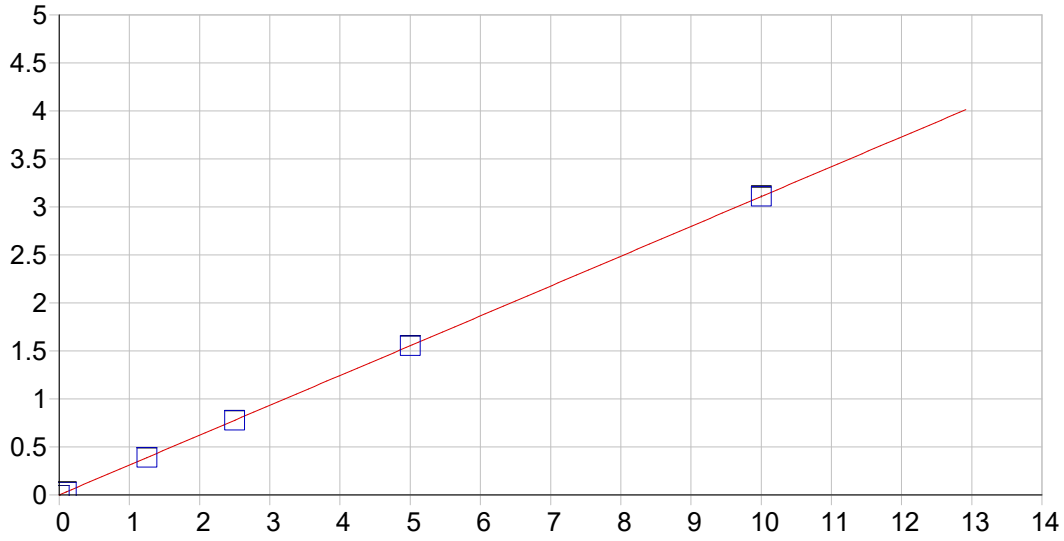


Sn 189.989 {478}

Date of Fit:	12/15/2024 5:38:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000126	Re-Slope:	1.000000
A1 (Gain):	0.109271	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999893	Status:	OK.
Std Error of Est:	0.000022		
Predicted MDL:	0.001385		
Predicted MQL:	0.004616		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00013	.000	1
S1	.00700	.00538	-.002	-23.2	.00068	.000	1
S2	1.2500	1.2002	-.050	-3.98	.13059	.000	1
S3	2.5000	2.4531	-.047	-1.87	.26682	.001	1
S4	5.0000	5.0139	.014	.277	.54526	.001	1
S5	10.000	10.084	.084	.843	1.0966	.002	1



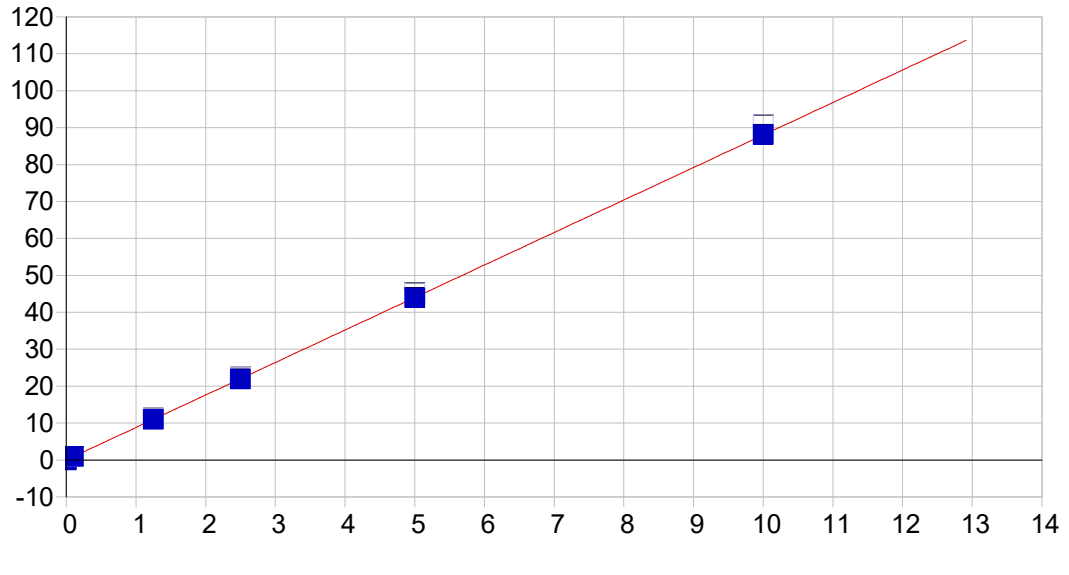
Ti 336.121 {100}

Date of Fit:	12/15/2024 5:38:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000742	Re-Slope:	1.000000
A1 (Gain):	0.310667	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999996	Status:	OK.
Std Error of Est:	0.000048		
Predicted MDL:	0.003991		
Predicted MQL:	0.013303		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00074	.000	1
S1	.10000	.09644	-.004	-3.56	.03070	.001	1
S2	1.2500	1.2492	-.001	-.060	.38884	.003	1
S3	2.5000	2.4927	-.007	-.291	.77515	.001	1
S4	5.0000	5.0011	.001	.022	1.5544	.001	1
S5	10.000	10.010	.010	.105	3.1107	.006	1

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5



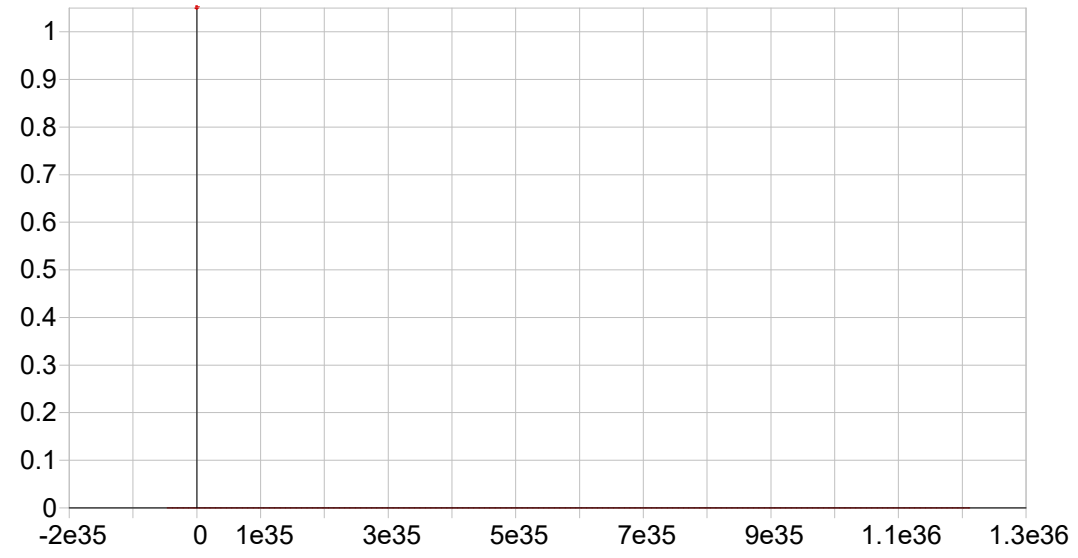
Sr 407.771 { 83}

Date of Fit:	12/15/2024 5:38:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.006562	Re-Slope:	1.000000
A1 (Gain):	8.801467	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999997	Status:	OK.
Std Error of Est:	0.001261		
Predicted MDL:	0.000238		
Predicted MQL:	0.000794		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00658	.002	1
S1	.10000	.10270	.003	2.70	.89826	.001	1
S2	1.2500	1.2506	.001	.046	11.330	.024	1
S3	2.5000	2.4916	-.008	-.335	22.584	.005	1
S4	5.0000	4.9911	-.009	-.177	45.243	.030	1
S5	10.000	10.014	.014	.140	90.772	.058	1

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

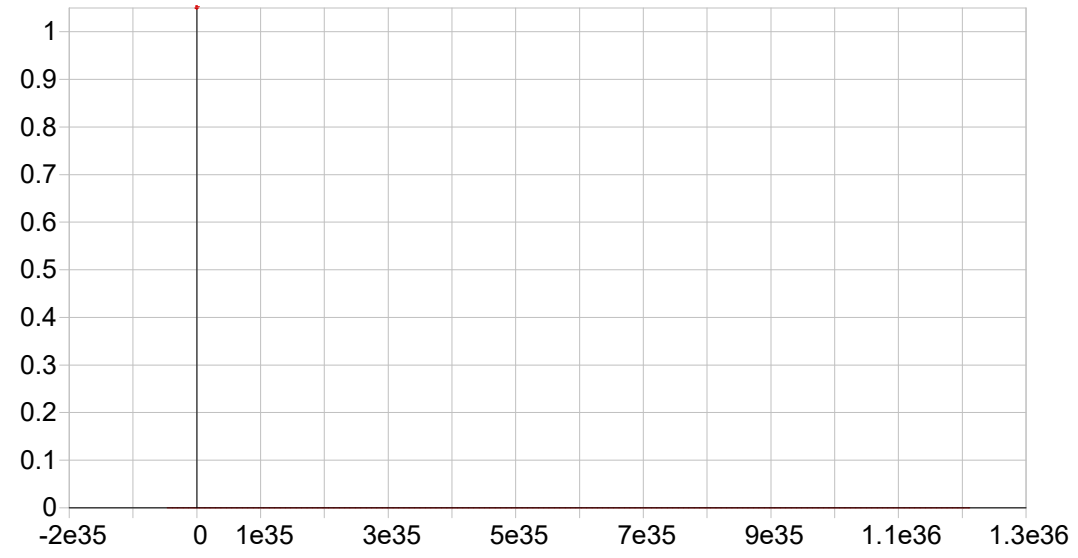


Y 224.306 {450}*

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

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

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



Y 360.073 { 94}*

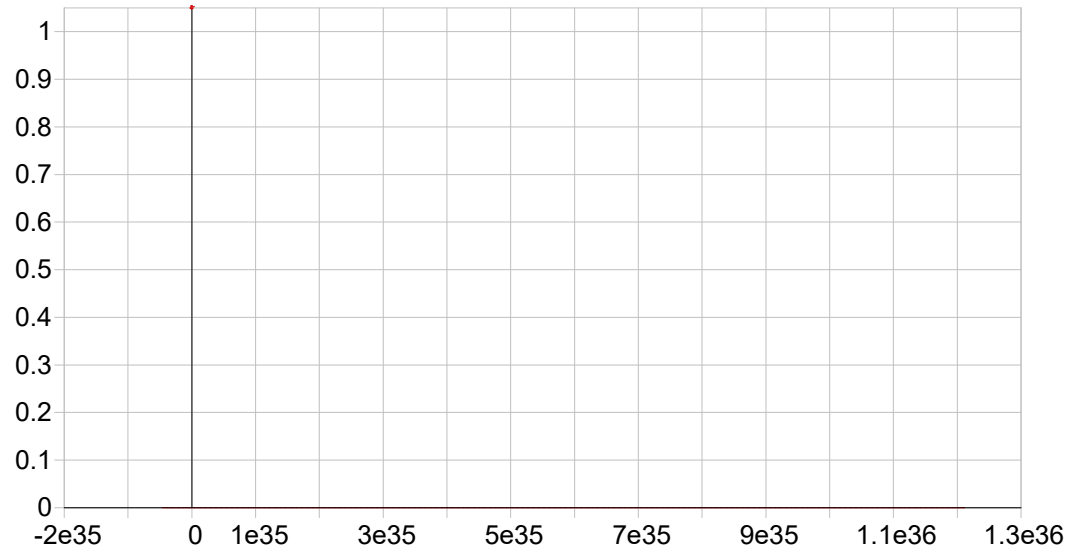
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:Mohan
On:12/18/2024 3:02:43 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



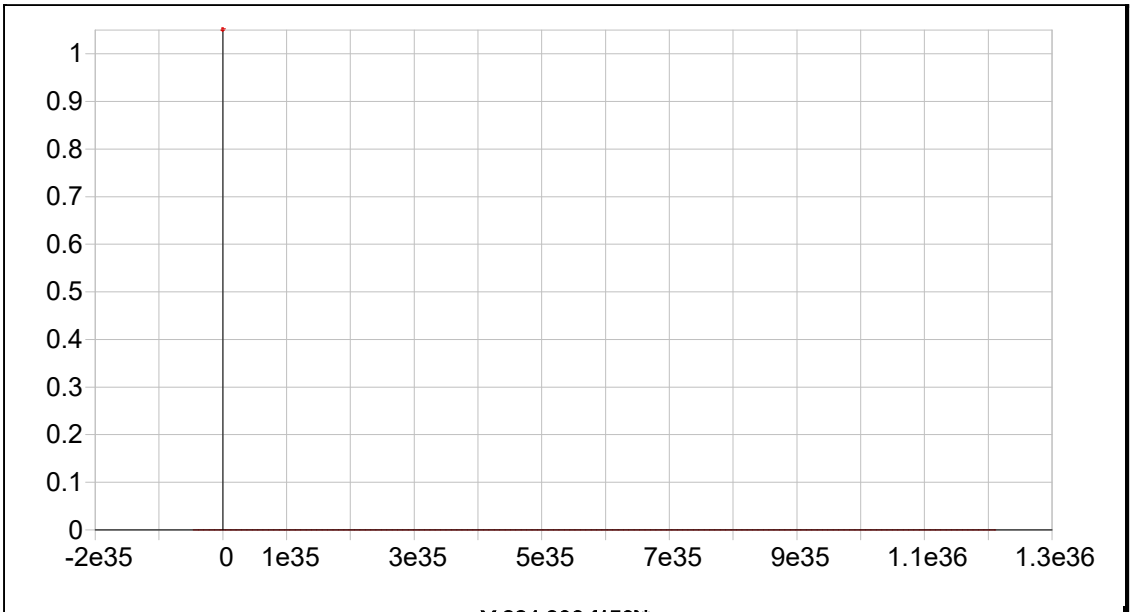
Y 371.030 { 91}*

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

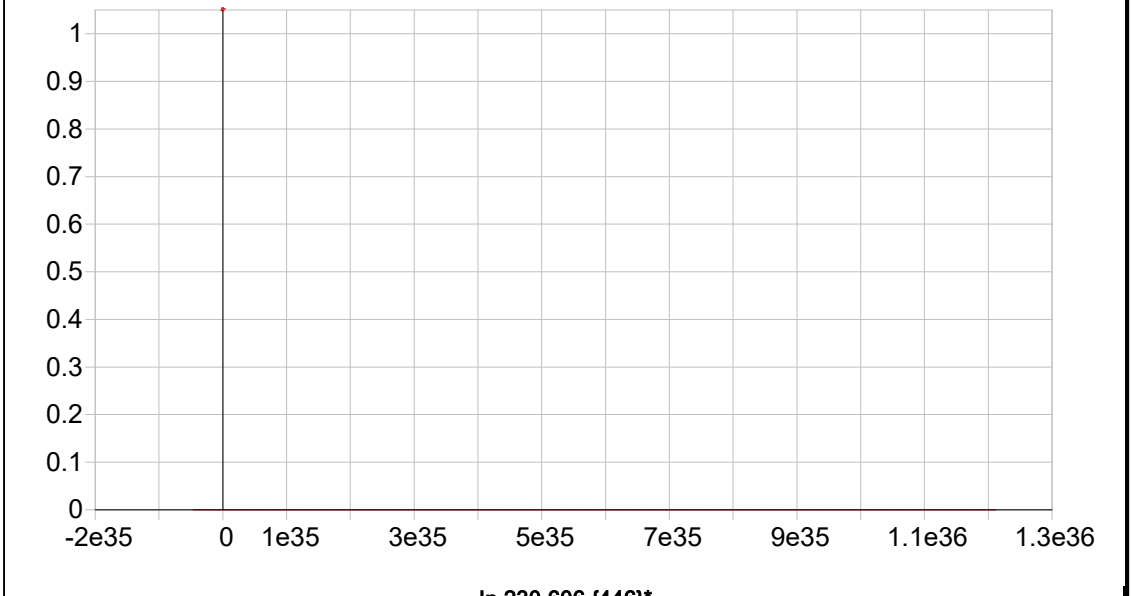
Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5



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



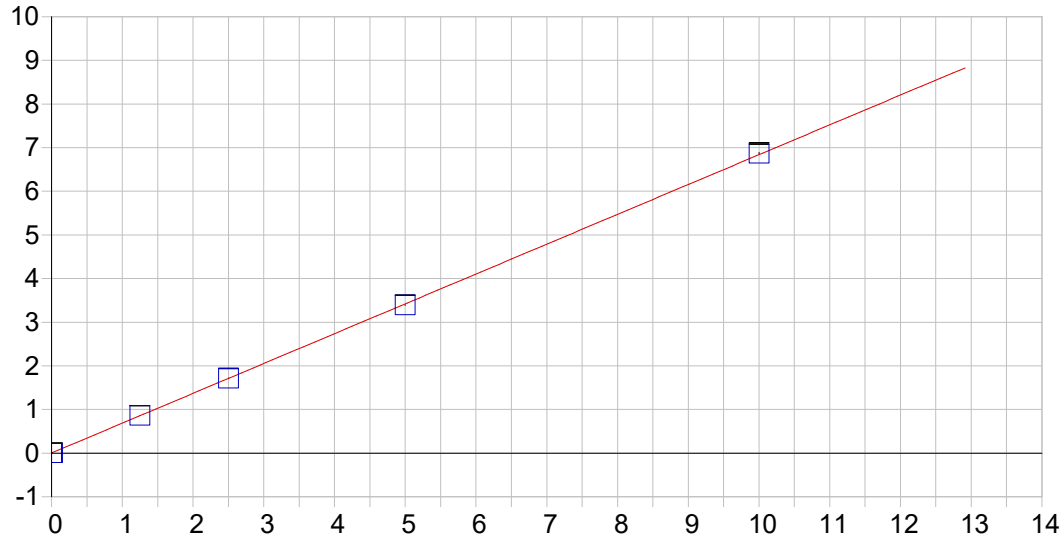
In 230.606 {446}*

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	

Reviewed By:Mohan
On:12/18/2024 3:02:43 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



Li 670.784 { 50}

Date of Fit:	12/15/2024 5:38:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002806	Re-Slope:	1.000000
A1 (Gain):	0.683586	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999881	Status:	OK.
Std Error of Est:	0.000216		
Predicted MDL:	0.006322		
Predicted MQL:	0.021073		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00281	.005	1
S5	10.000	10.042	.042	.419	6.8673	.021	1
S4	5.0000	4.9606	-.039	-.789	3.3938	.006	1
S3	2.5000	2.5024	.002	.095	1.7134	.004	1
S2	1.2500	1.2529	.003	.232	.85927	.007	1
S1	.01500	.00730	-.008	-51.3	.00779	.005	1

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: S0 Acquired: 12/15/2024 17:13:21 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.05065**	**-.00017**	**.00013**	**-.00012**	**.00059**	**-.00056**	**.01646**	**-.00015**
Stddev	.14371	.00006	.00053	.00024	.00006	.00177	.00497	.00097
%RSD	283.76	37.463	419.64	208.53	10.029	318.11	30.218	631.37
#1	.11231	-.00011	-.00041	-.00003	.00062	-.00150	.01565	.00067
#2	-.15927	-.00016	.00064	.00008	.00052	-.00165	.01194	-.00123
#3	-.10498	-.00023	.00014	-.00039	.00063	.00148	.02178	.00009

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	**-.00004**	**.00468**	**.00004**	**.00002**	**.00233**	**.00002**	**-.00036**	**-.00169**
Stddev	.00009	.00063	.00020	.00018	.00045	.00032	.00028	.00072
%RSD	218.53	13.350	534.71	1165.0	19.474	2000.2	77.427	42.762
#1	.00006	.00404	-.00016	.00011	.00199	-.00033	-.00032	-.00144
#2	-.00007	.00529	.00024	.00013	.00284	.00028	-.00010	-.00113
#3	-.00012	.00472	.00003	-.00020	.00215	.00010	-.00065	-.00251

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	**-.00046**	**-.00219**	**-.00837**	**.00025**	**-.00065**	**.09503**	**-.00299**	**.00410**
Stddev	.00018	.00027	.00630	.00147	.00055	.00295	.00008	.00067
%RSD	39.902	12.198	75.317	595.40	85.237	3.1019	2.6448	16.296
#1	-.00026	-.00249	-.01561	.00180	-.00128	.09163	-.00306	.00444
#2	-.00062	-.00207	-.00413	-.00113	-.00029	.09666	-.00290	.00333
#3	-.00050	-.00200	-.00537	.00007	-.00037	.09681	-.00300	.00454

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	**.00012**	**.00040**	**.01321**	**.00013**	**.00074**	**-.00658**	**.00281**
Stddev	.00015	.00013	.00100	.00007	.00049	.00178	.00536
%RSD	125.18	31.477	7.5482	51.595	66.143	26.969	190.61
#1	.00019	.00027	.01268	.00017	.00019	-.00481	-.00024
#2	-.00005	.00052	.01259	.00005	.00115	-.00836	.00900
#3	.00021	.00040	.01436	.00016	.00089	-.00659	-.00032

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: S0 Acquired: 12/15/2024 17:13:21 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S0 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2343.9	28323.	2550.2	1975.0	3242.9
Stddev	10.4	15.	16.2	2.8	13.6
%RSD	.44523	.05425	.63481	.14169	.42012
#1	2341.4	28340.	2564.3	1972.1	3239.2
#2	2335.0	28317.	2532.5	1975.2	3231.6
#3	2355.4	28311.	2553.7	1977.7	3258.1

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: S1 Acquired: 12/15/2024 17:17:26 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.6204**	**.00149**	**.00204**	**.00132**	**.00733**	**.01696**	**.72538**	**.04708**
Stddev	.6261	.00013	.00035	.00014	.00005	.00083	.00634	.00080
%RSD	38.639	8.3687	17.181	10.354	.67563	4.9096	.87340	1.7087
#1	2.2536	.00158	.00242	.00117	.00734	.01792	.73029	.04784
#2	1.6061	.00155	.00197	.00143	.00728	.01659	.72763	.04624
#3	1.0016	.00135	.00172	.00136	.00738	.01639	.71823	.04714

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	**.01304**	**.21649**	**.00213**	**.03539**	**.00513**	**.00151**	**.00538**	**.05438**
Stddev	.00022	.00320	.00013	.00071	.00043	.00046	.00031	.00041
%RSD	1.7218	1.4771	6.2278	1.9966	8.4142	30.367	5.8104	.75137
#1	.01311	.21551	.00222	.03605	.00509	.00169	.00516	.05392
#2	.01322	.22006	.00198	.03547	.00471	.00099	.00574	.05451
#3	.01279	.21389	.00220	.03464	.00557	.00185	.00524	.05470

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	**.01743**	**.00012**	**.02397**	**.00355**	**.00217**	**.20032**	**-.00254**	**.00362**
Stddev	.00024	.00010	.00420	.00021	.00010	.00125	.00017	.00159
%RSD	1.3974	85.833	17.535	5.9150	4.3935	.62150	6.7014	43.805
#1	.01767	.00017	.02098	.00335	.00206	.19959	-.00250	.00197
#2	.01742	.00000	.02877	.00353	.00220	.20176	-.00272	.00514
#3	.01718	.00019	.02214	.00377	.00225	.19962	-.00239	.00375

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	**.00581**	**.00311**	**.31174**	**.00068**	**.03070**	**.89826**	**.00779**
Stddev	.00017	.00002	.00200	.00010	.00144	.00076	.00450
%RSD	2.9268	.79413	.64284	14.579	4.6788	.08419	57.784
#1	.00600	.00314	.31338	.00076	.03132	.89774	.00344
#2	.00567	.00312	.31234	.00057	.02906	.89792	.01244
#3	.00577	.00309	.30951	.00072	.03173	.89913	.00750

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: S1 Acquired: 12/15/2024 17:17:26 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S01 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2344.7	28184.	2560.2	1963.0	3251.5
Stddev	5.4	128.	18.7	9.9	13.2
%RSD	.23222	.45250	.73052	.50460	.40731
#1	2343.2	28330.	2556.4	1974.4	3241.6
#2	2340.1	28120.	2543.7	1958.3	3246.4
#3	2350.7	28100.	2580.5	1956.3	3266.6

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: S2 Acquired: 12/15/2024 17:21:31 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**180.74**	**.09059**	**1.1298**	**.06115**	**.16300**	**3.6661**	**8.9457**	**1.2071**
Stddev	1.14	.00052	.0015	.00041	.00064	.0056	.0132	.0022
%RSD	.63332	.57317	.13121	.67418	.39298	.15173	.14747	.17843
#1	179.80	.09087	1.1287	.06075	.16304	3.6705	8.9541	1.2058
#2	180.40	.08999	1.1293	.06111	.16234	3.6599	8.9305	1.2096
#3	182.01	.09091	1.1315	.06157	.16362	3.6680	8.9526	1.2059

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.7505**	**2.7104**	**.83057**	**.46114**	**.45338**	**.74645**	**1.3265**	**.68821**
Stddev	.0046	.0093	.00178	.00177	.00158	.00339	.0008	.00015
%RSD	.26442	.34243	.21471	.38288	.34779	.45365	.05732	.02151
#1	1.7461	2.7115	.82904	.45915	.45346	.74655	1.3274	.68835
#2	1.7503	2.7006	.83013	.46179	.45177	.74302	1.3261	.68824
#3	1.7553	2.7191	.83253	.46249	.45492	.74979	1.3260	.68805

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	**.28957**	**.06881**	**.24966**	**.05477**	**.19209**	**.86536**	**.05747**	**.76376**
Stddev	.00061	.00060	.00218	.00097	.00111	.00542	.00027	.00252
%RSD	.21099	.86631	.87202	1.7745	.58019	.62627	.46824	.33031
#1	.28998	.06940	.24864	.05369	.19330	.86478	.05745	.76526
#2	.28887	.06820	.25216	.05557	.19111	.86026	.05722	.76517
#3	.28988	.06882	.24818	.05506	.19185	.87105	.05775	.76084

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	**.72923**	**.03958**	**1.5802**	**.13059**	**.38884**	**11.330**	**.85927**
Stddev	.00165	.00051	.0088	.00025	.00274	.024	.00695
%RSD	.22564	1.2956	.55416	.19143	.70552	.21331	.80896
#1	.72747	.03901	1.5795	.13030	.38746	11.340	.85491
#2	.72949	.03973	1.5893	.13075	.38707	11.303	.85562
#3	.73073	.04001	1.5718	.13072	.39200	11.348	.86729

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: S2 Acquired: 12/15/2024 17:21:31 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S02 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2230.8	27483.	2554.6	1876.4	2938.3
Stddev	2.8	41.	12.2	2.9	2.2
%RSD	.12687	.15052	.47727	.15703	.07355
#1	2232.3	27522.	2568.2	1879.8	2938.5
#2	2232.6	27486.	2544.6	1874.7	2940.4
#3	2227.5	27440.	2551.1	1874.8	2936.1

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: S3 Acquired: 12/15/2024 17:25:20 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**357.56**	**.18239**	**2.2864**	**.12627**	**.33286**	**7.3138**	**17.851**	**2.3731**
Stddev	.64	.00033	.0092	.00076	.00210	.0086	.029	.0202
%RSD	.17930	.18034	.40267	.60231	.63151	.11722	.16236	.85072
#1	356.97	.18207	2.2785	.12541	.33088	7.3164	17.882	2.3734
#2	357.46	.18236	2.2841	.12658	.33265	7.3208	17.844	2.3931
#3	358.24	.18273	2.2965	.12683	.33507	7.3042	17.826	2.3527

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.5573**	**5.4049**	**1.6549**	**.92501**	**.89517**	**1.4845**	**2.6297**	**1.3623**
Stddev	.0130	.0078	.0010	.00314	.00270	.0035	.0042	.0013
%RSD	.36422	.14486	.06355	.33996	.30143	.23632	.15844	.09636
#1	3.5458	5.4073	1.6542	.92187	.89285	1.4823	2.6325	1.3623
#2	3.5547	5.4112	1.6544	.92500	.89813	1.4885	2.6317	1.3610
#3	3.5714	5.3962	1.6561	.92815	.89454	1.4826	2.6249	1.3637

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	**.58933**	**.14046**	**.49180**	**.10914**	**.39504**	**1.6488**	**.12171**	**1.5023**
Stddev	.00115	.00043	.00608	.00070	.00312	.0034	.00047	.0143
%RSD	.19590	.30754	1.2364	.63805	.78963	.20319	.38436	.94858
#1	.58819	.14008	.48722	.10901	.39324	1.6452	.12123	1.5097
#2	.58929	.14037	.48949	.10990	.39323	1.6494	.12172	1.5112
#3	.59050	.14093	.49870	.10853	.39864	1.6518	.12217	1.4858

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	**1.4864**	**.08205**	**3.0486**	**.26682**	**.77515**	**22.584**	**1.7134**
Stddev	.0075	.00043	.0338	.00073	.00107	.005	.0043
%RSD	.50130	.51865	1.1097	.27536	.13868	.02205	.25010
#1	1.4803	.08163	3.0660	.26623	.77620	22.584	1.7099
#2	1.4842	.08204	3.0703	.26657	.77519	22.578	1.7182
#3	1.4947	.08248	3.0097	.26764	.77406	22.588	1.7121

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: S3 Acquired: 12/15/2024 17:25:20 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S03 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2145.2**	**27069.**	**2565.9**	**1830.4**	**2809.9**
Stddev	5.6	126.	13.7	7.5	5.4
%RSD	.25951	.46530	.53201	.41097	.19117
#1	2144.7	27146.	2569.0	1836.9	2806.7
#2	2151.0	27138.	2551.0	1832.1	2816.1
#3	2139.9	26924.	2577.8	1822.2	2806.9

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: S4 Acquired: 12/15/2024 17:29:06 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**703.34**	**.36293**	**4.6643**	**.26292**	**.69961**	**14.707**	**35.865**	**4.6839**
Stddev	2.69	.00144	.0108	.00113	.00237	.035	.066	.0343
%RSD	.38183	.39604	.23228	.42795	.33879	.23986	.18383	.73225
#1	706.40	.36136	4.6592	.26178	.69769	14.739	35.937	4.7216
#2	701.40	.36326	4.6570	.26294	.69887	14.670	35.850	4.6753
#3	702.21	.36418	4.6768	.26403	.70226	14.713	35.807	4.6547

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7.2269**	**10.786**	**3.3096**	**1.8588**	**1.7761**	**2.9502**	**5.2053**	**2.7140**
Stddev	.0178	.034	.0004	.0030	.0027	.0065	.0122	.0070
%RSD	.24643	.31482	.01239	.16141	.15233	.21986	.23413	.25820
#1	7.2191	10.798	3.3092	1.8581	1.7733	2.9577	5.2193	2.7219
#2	7.2143	10.747	3.3098	1.8561	1.7787	2.9463	5.1978	2.7086
#3	7.2473	10.812	3.3100	1.8620	1.7764	2.9467	5.1987	2.7116

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	**1.1928**	**.28808**	**.98471**	**.21764**	**.82018**	**3.2384**	**.25696**	**2.9432**
Stddev	.0036	.00037	.00412	.00205	.00534	.0054	.00107	.0230
%RSD	.30020	.12687	.41883	.94061	.65144	.16601	.41504	.78016
#1	1.1908	.28766	.98885	.21761	.81507	3.2347	.25694	2.9691
#2	1.1906	.28834	.98060	.21970	.81974	3.2359	.25591	2.9352
#3	1.1969	.28824	.98469	.21560	.82573	3.2446	.25804	2.9253

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	**3.1109**	**.17131**	**5.9757**	**.54526**	**1.5544**	**45.243**	**3.3938**
Stddev	.0082	.00087	.0409	.00120	.0009	.030	.0063
%RSD	.26400	.50796	.68404	.21991	.05969	.06723	.18569
#1	3.1045	.17112	6.0213	.54461	1.5555	45.277	3.4004
#2	3.1081	.17055	5.9632	.54452	1.5538	45.235	3.3931
#3	3.1202	.17226	5.9425	.54664	1.5540	45.217	3.3878

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: S4 Acquired: 12/15/2024 17:29:06 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S04 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1989.9	26211.	2540.6	1725.1	2648.7
Stddev	10.2	67.	10.4	8.6	12.3
%RSD	.51222	.25395	.41013	.50033	.46510
#1	2000.9	26281.	2528.7	1733.1	2661.8
#2	1988.0	26203.	2547.7	1726.4	2647.0
#3	1980.8	26149.	2545.5	1715.9	2637.3

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: S5 Acquired: 12/15/2024 17:32:46 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1352.1**	**.71498**	**9.4109**	**.57096**	**1.5481**	**29.640**	**72.288**	**9.3106**
Stddev	5.1	.00179	.0254	.00156	.0056	.036	.177	.0903
%RSD	.37444	.25088	.27032	.27368	.36088	.12167	.24421	.96947
#1	1352.9	.71293	9.3915	.57015	1.5455	29.666	72.347	9.3973
#2	1346.7	.71577	9.4014	.56996	1.5442	29.655	72.428	9.3175
#3	1356.7	.71625	9.4397	.57276	1.5545	29.599	72.090	9.2171

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**14.435**	**21.413**	**6.5168**	**3.7028**	**3.5388**	**5.8137**	**10.269**	**5.3921**
Stddev	.037	.053	.0163	.0080	.0145	.0064	.023	.0127
%RSD	.25732	.24535	.24976	.21623	.40931	.11022	.22547	.23520
#1	14.406	21.455	6.5273	3.6986	3.5295	5.8093	10.280	5.3969
#2	14.422	21.430	6.4981	3.6977	3.5555	5.8211	10.284	5.4016
#3	14.477	21.354	6.5250	3.7120	3.5314	5.8108	10.242	5.3777

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.3879**	**.58791**	**1.9766**	**.43534**	**1.7582**	**6.4921**	**.52955**	**5.7426**
Stddev	.0043	.00087	.0101	.00131	.0218	.0076	.00159	.0607
%RSD	.18008	.14719	.50954	.30119	1.2413	.11629	.30056	1.0570
#1	2.3858	.58855	1.9766	.43412	1.7439	6.4984	.52808	5.7902
#2	2.3850	.58693	1.9867	.43673	1.7474	6.4942	.52933	5.7633
#3	2.3929	.58826	1.9665	.43519	1.7834	6.4837	.53124	5.6742

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	**6.7710**	**.35423**	**11.762**	**1.0966**	**3.1107**	**90.772**	**6.8673**
Stddev	.0195	.00189	.122	.0024	.0063	.058	.0212
%RSD	.28860	.53482	1.0368	.22063	.20113	.06434	.30822
#1	6.7612	.35344	11.858	1.0944	3.1155	90.789	6.8495
#2	6.7583	.35286	11.803	1.0961	3.1129	90.821	6.8907
#3	6.7935	.35639	11.625	1.0992	3.1036	90.707	6.8617

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: S5 Acquired: 12/15/2024 17:32:46 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S05 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1737.5	25288.	2493.4	1553.0	2474.2
Stddev	4.3	136.	9.0	16.3	6.8
%RSD	.24740	.53954	.36139	1.0477	.27421
#1	1742.1	25415.	2491.3	1567.1	2480.1
#2	1733.6	25307.	2485.6	1556.6	2466.8
#3	1736.7	25144.	2503.2	1535.2	2475.7

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: S6 Acquired: 12/15/2024 17:36:24 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S06 Custom ID2: Custom ID3:
Comment:

Elem	Al3961	Ca3736	Fe2598	Mg2790	Na8183
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**76.014**	**33.857**	**14.907**	**8.3953**	**5.2293**
Stddev	.305	.098	.068	.0340	.0221
%RSD	.40121	.29043	.45659	.40435	.42196
#1	75.866	33.813	14.874	8.3791	5.2158
#2	76.365	33.969	14.985	8.4343	5.2548
#3	75.812	33.788	14.861	8.3726	5.2175

Int. Std.	Y_3710
Units	Cts/S
Avg	**2478.8**
Stddev	13.6
%RSD	.54895
#1	2471.5
#2	2470.3
#3	2494.5

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: ICV004 Acquired: 12/15/2024 17:40:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV004 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.038947**	**.9930447**	**.9441570**	**.9206292**	**.9511772**	**2.370367**
Stddev	.001662	.0062430	.0062369	.0057424	.0075145	.003706
%RSD	.1599640	.6286692	.6605770	.6237483	.7900166	.1563550
#1	1.040708	.9860440	.9420876	.9142968	.9425085	2.366172
#2	1.038727	.9950560	.9392179	.9220921	.9558378	2.371732
#3	1.037406	.9980341	.9511656	.9254986	.9551854	2.373197

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5105981**	**.5074084**	**.4770064**	**10.12286**	**.5317201**	**.4835181**
Stddev	.0013849	.0019591	.0025671	.07309	.0021263	.0023416
%RSD	.2712321	.3861069	.5381635	.7220005	.3998871	.4842937
#1	.5121679	.5051609	.4743886	10.13415	.5328117	.4808450
#2	.5100776	.5083094	.4771109	10.04479	.5330789	.4845019
#3	.5095489	.5087550	.4795196	10.18965	.5292697	.4852073

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4926610**	**10.40534**	**.5214154**	**6.192417**	**.4909916**	**.2438986**
Stddev	.0050868	.06961	.0004530	.142043	.0031651	.0012405
%RSD	1.032514	.6690070	.0868860	2.293818	.6446451	.5086092
#1	.4983385	10.46997	.5219059	6.356399	.4876057	.2434994
#2	.4911260	10.33164	.5213278	6.107500	.4914930	.2452895
#3	.4885185	10.41442	.5210126	6.113352	.4938762	.2429068

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.05315**	**.5038855**	**.9292499**	**9.291803**	F **-.000307**	F **.0100625**
Stddev	.29825	.0078271	.0059638	.056879	.001130	.0022492
%RSD	2.966756	1.553355	.6417808	.6121424	367.5991	22.35208
#1	10.06054	.4949547	.9353652	9.279258	.000983	.0103289
#2	10.34763	.5095525	.9289340	9.242243	-.000787	.0121666
#3	9.75126	.5071494	.9234503	9.353907	-.001118	.0076920

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: ICV004 Acquired: 12/15/2024 17:40:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV004 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0006094	F -.001856	F .0040990	F .0015549	F .0009017	F -.008969
Stddev	.0000825	.005279	.0009841	.0004710	.0019155	.000206
%RSD	13.54227	284.3896	24.00804	30.29437	212.4254	2.300851
#1	.0006892	.002759	.0047694	.0017614	-.001065	-.008958
#2	.0006145	-.007613	.0029692	.0018874	.001008	-.008768
#3	.0005244	-.000716	.0045585	.0010159	.002762	-.009180

Elem	Li6707
Units	ppm
Avg	F -.003787
Stddev	.005212
%RSD	137.6130
#1	-.005827
#2	.002136
#3	-.007671

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2335.453	28272.37	2608.262	1965.105	3197.178
Stddev	14.654	107.97	3.292	8.438	19.099
%RSD	.6274602	.3818891	.1262316	.4294138	.5973844
#1	2351.709	28198.57	2611.364	1957.552	3219.033
#2	2323.258	28222.24	2604.807	1963.551	3183.689
#3	2331.391	28396.29	2608.613	1974.213	3188.812

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: ICB004 Acquired: 12/15/2024 17:44:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB004 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003684**	**.0014289**	**.0022742**	**-.000601**	**.0000029**	**.0082884**	**.0002556**
Stddev	.0019860	.0007064	.0006859	.001694	.0007972	.0085457	.0004529
%RSD	539.0624	49.43355	30.16147	281.9492	27322.93	103.1047	177.2219
#1	-.001709	.0011067	.0020850	-.002548	.0004592	.0175765	.0006768
#2	.000567	.0009411	.0030349	.000218	-.000918	.0065302	-.000224
#3	.002248	.0022389	.0017028	.000528	.000467	.0007585	.000314

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000046**	**.0000319**	**.0252482**	**.0000927**	**-.000218**	**-.004677**	**.0110761**
Stddev	.000125	.0000671	.0243485	.0002301	.000273	.003690	.0397035
%RSD	269.8392	210.6593	96.43641	248.2408	125.2536	78.90284	358.4608
#1	.000085	.0000895	.0455800	-.000097	-.000523	-.007574	-.022456
#2	-.000060	-.000042	.0318994	.000349	.000006	-.000523	.000767
#3	-.000163	.000048	-.001735	.000027	-.000138	-.005933	.054917

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000342**	**.0152618**	**.0001299**	**.0001480**	**-.436100**	**-.005734**	**-.002831**
Stddev	.000794	.0649878	.0006264	.0004370	.475474	.010012	.006666
%RSD	232.1481	425.8210	482.2983	295.3003	109.0287	174.6260	235.4770
#1	-.001081	-.015717	-.000369	.0001761	-.909566	-.003736	.004797
#2	-.000441	.089943	.000833	.0005702	.041357	-.016594	-.005752
#3	.000497	-.028440	-.000074	-.000302	-.440090	.003129	-.007538

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1735206**	**-.002021**	**.0084682**	**.0002788**	**-.003443**	**.0014398**	**.0007721**
Stddev	.1727968	.001641	.0031520	.0002037	.005842	.0005516	.0005589
%RSD	99.58287	81.22386	37.22151	73.06636	169.6786	38.31285	72.39436
#1	.3730416	-.003831	.0079164	.0002028	.003266	.0012116	.0006465
#2	.0722570	-.000631	.0056285	.0001240	-.007409	.0010389	.0013831
#3	.0752632	-.001600	.0118596	.0005096	-.006186	.0020689	.0002866

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: ICB004 Acquired: 12/15/2024 17:44:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB004 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.002714	.0002427	-.009929
Stddev	.002433	.0002313	.002955
%RSD	89.66175	95.31826	29.75974
#1	-.001327	.0000263	-.010998
#2	-.001291	.0002153	-.012200
#3	-.005524	.0004865	-.006588

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2337.120	28245.34	2576.996	1968.706	3237.734
Stddev	7.048	63.07	15.514	9.983	10.923
%RSD	.3015792	.2233048	.6020008	.5070626	.3373634
#1	2340.297	28298.42	2575.010	1979.753	3237.731
#2	2342.021	28175.61	2562.571	1960.333	3248.658
#3	2329.043	28261.98	2593.407	1966.032	3226.812

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: ICSA004 Acquired: 12/15/2024 17:48:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA004 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000840**	**.0203396**	**.0039096**	**-.030305**	**.0078546**	**238.9222**
Stddev	.003195	.0029692	.0033035	.004553	.0005842	1.0467
%RSD	380.5111	14.59824	84.49749	15.02377	7.437519	.4380929
#1	.001707	.0219178	.0071699	-.025360	.0085288	239.4015
#2	-.004424	.0221864	.0039943	-.031233	.0074981	239.6434
#3	.000199	.0169145	.0005646	-.034323	.0075369	237.7217

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0052860**	**.0013489**	**.0010346**	**244.6726**	**.0497077**	**.0360242**
Stddev	.0011259	.0001970	.0000445	.7914	.0009657	.0002770
%RSD	21.29936	14.60286	4.302533	.3234608	1.942767	.7689558
#1	.0048878	.0011381	.0010021	245.1308	.0498810	.0357115
#2	.0044132	.0015283	.0010163	245.1282	.0505750	.0362389
#3	.0065568	.0013802	.0010853	243.7587	.0486671	.0361222

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.014912**	**102.3676**	**.0102816**	**257.7221**	**.0060916**	**-.008820**
Stddev	.006612	.4687	.0007586	.8777	.0010375	.000389
%RSD	44.33585	.4578983	7.378411	.3405555	17.03129	4.413214
#1	-.020956	102.8510	.0096558	258.6154	.0070196	-.008422
#2	-.007851	102.3366	.0111253	257.6901	.0062837	-.008838
#3	-.015930	101.9151	.0100636	256.8608	.0049715	-.009199

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0021769**	**.0010595**	**-.043038**	**-.516808**	**.0033750**	F **-.026524**
Stddev	1.328731	.0051313	.001182	.215820	.0041100	.002500
%RSD	61038.15	484.3017	2.747272	41.76028	121.7778	9.425288
#1	-1.19429	.0035717	-.044037	-.733638	.0079985	-.029390
#2	-.23138	.0044506	-.043345	-.514774	.0001356	-.025388
#3	1.43220	-.004844	-.041733	-.302012	.0019910	-.024793

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: ICSA004 Acquired: 12/15/2024 17:48:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA004 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003007	.0073976	-.004304	F .0125049	-.004535	.0022724
Stddev	.0003052	.0020493	.000681	.0017405	.002199	.0004011
%RSD	101.5110	27.70261	15.81576	13.91833	48.48776	17.65234
#1	.0001922	.0085228	-.004951	.0105139	-.005231	.0023659
#2	.0006453	.0050322	-.003594	.0137374	-.002073	.0026185
#3	.0000645	.0086380	-.004369	.0132634	-.006303	.0018327

Elem	Li6707
Units	ppm
Avg	.0124230
Stddev	.0018064
%RSD	14.54097
#1	.0142010
#2	.0124786
#3	.0105894

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2198.418	26245.49	2546.895	1843.216	2785.585
Stddev	3.497	70.56	14.834	4.326	6.065
%RSD	.1590802	.2688328	.5824529	.2347167	.2177265
#1	2199.270	26246.00	2542.420	1845.002	2784.720
#2	2194.573	26315.79	2534.813	1846.363	2779.999
#3	2201.410	26174.68	2563.452	1838.282	2792.036

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: ICSAB004 Acquired: 12/15/2024 17:52:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB004 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0996684	.1213299	.0500216	.0185984	.5262279	236.9978
Stddev	.0042138	.0023818	.0044102	.0086762	.0048475	.4166
%RSD	4.227843	1.963043	8.816546	46.65044	.9211860	.1757654
#1	.0948270	.1221144	.0551133	.0284889	.5284580	236.9184
#2	.1025096	.1186548	.0474034	.0150357	.5206666	237.4484
#3	.1016687	.1232204	.0475480	.0122706	.5295590	236.6267

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5245710	.5098990	.9799221	242.8101	.5737440	.5106450
Stddev	.0011042	.0027781	.0049376	.1066	.0024994	.0029135
%RSD	.2104929	.5448335	.5038799	.0439062	.4356354	.5705458
#1	.5247030	.5070817	.9772636	242.7191	.5766300	.5088267
#2	.5256033	.5126362	.9768834	242.9274	.5723130	.5091029
#3	.5234068	.5099791	.9856194	242.7839	.5722889	.5140054

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4640818	101.8175	.5219761	255.3015	.9784937	.1784824
Stddev	.0030989	.0875	.0020559	.3795	.0037730	.0008773
%RSD	.6677580	.0859767	.3938659	.1486339	.3855890	.4915309
#1	.4641236	101.8293	.5222695	255.0719	.9754853	.1791890
#2	.4671596	101.8985	.5197893	255.7395	.9772690	.1787577
#3	.4609622	101.7246	.5238695	255.0932	.9827269	.1775005

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.144349	.5209979	.8845220	-1.01536	.0017003	F -.032378
Stddev	.160124	.0191549	.0036843	.18984	.0056661	.000998
%RSD	110.9286	3.676581	.4165260	18.69657	333.2414	3.083686
#1	.028632	.5381664	.8861609	-1.13579	-.001560	-.033490
#2	-.174288	.5244903	.8803026	-1.11376	.008243	-.031558
#3	-.287390	.5003372	.8871024	-.79652	-.001582	-.032085

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: ICSAB004 Acquired: 12/15/2024 17:52:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB004 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006472	.0090201	-.003558	F .0097004	-.004847	.0024975
Stddev	.0005212	.0018872	.001254	.0025725	.004493	.0003232
%RSD	80.53504	20.92179	35.24724	26.51994	92.71213	12.94077
#1	.0012148	.0070317	-.003402	.0097901	-.001604	.0021265
#2	.0005364	.0092423	-.004883	.0070842	-.002960	.0026477
#3	.0001902	.0107864	-.002389	.0122270	-.009976	.0027183

Elem	Li6707
Units	ppm
Avg	.0057799
Stddev	.0079792
%RSD	138.0503
#1	.0149468
#2	.0003945
#3	.0019984

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2204.018	26341.35	2541.423	1847.546	2812.009
Stddev	3.057	95.06	9.992	3.759	10.511
%RSD	.1386823	.3608785	.3931691	.2034598	.3737987
#1	2207.520	26231.64	2551.121	1843.207	2822.590
#2	2202.647	26393.20	2531.160	1849.815	2811.866
#3	2201.887	26399.21	2541.987	1849.616	2801.569

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: CCV029 Acquired: 12/15/2024 17:56:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV029 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.708424**	**4.761779**	**23.63709**	**4.537755**	**4.589025**	**388.7774**	**9.716457**
Stddev	.028584	.012765	.08760	.023589	.001721	.3176	.017206
%RSD	.6070908	.2680813	.3706135	.5198476	.0375050	.0816860	.1770853
#1	4.741421	4.754885	23.64530	4.518086	4.587598	388.7787	9.719589
#2	4.692611	4.753942	23.54567	4.531270	4.588541	388.4592	9.697900
#3	4.691240	4.776509	23.72030	4.563908	4.590936	389.0943	9.731882

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4782449**	**2.370645**	**395.3735**	**14.73088**	**2.360447**	**14.66721**	**399.7576**
Stddev	.0019061	.006975	.1566	.01585	.009731	.02423	.5631
%RSD	.3985602	.2942123	.0395965	.1075690	.4122510	.1651678	.1408582
#1	.4777538	2.371098	395.2133	14.72022	2.360087	14.66668	399.6475
#2	.4803484	2.363455	395.3812	14.74909	2.350901	14.64326	399.2577
#3	.4766323	2.377383	395.5261	14.72334	2.370353	14.69170	400.3676

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.48009**	**389.5076**	**2.386359**	**1.200211**	**395.1780**	**2.410747**	**14.75238**
Stddev	.02389	.6170	.004229	.004049	1.3444	.015268	.08689
%RSD	.1649641	.1584074	.1772090	.3373543	.3402053	.6333186	.5889919
#1	14.49192	389.1125	2.385973	1.196335	396.7046	2.428342	14.78974
#2	14.45260	389.1917	2.382337	1.204413	394.1708	2.402909	14.65306
#3	14.49576	390.2186	2.390768	1.199884	394.6585	2.400991	14.81434

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**144.7496**	**4.741525**	**4.659796**	**4.563860**	**4.739867**	**4.813405**	**4.789253**
Stddev	.4431	.019615	.015633	.010194	.017706	.011026	.019221
%RSD	.3061479	.4136757	.3354879	.2233602	.3735582	.2290725	.4013368
#1	144.2381	4.742769	4.654165	4.559500	4.737844	4.809179	4.787975
#2	144.9934	4.721318	4.677465	4.556573	4.723260	4.825919	4.770703
#3	145.0173	4.760488	4.647758	4.575509	4.758498	4.805116	4.809081

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: CCV029 Acquired: 12/15/2024 17:56:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV029 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	4.859396	4.593898	5.004194
Stddev	.011018	.009525	.012782
%RSD	.2267264	.2073447	.2554193
#1	4.869344	4.593182	5.010568
#2	4.847554	4.584751	4.989479
#3	4.861290	4.603761	5.012535

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1921.536	25135.77	2491.077	1667.551	2537.417
Stddev	8.226	104.44	5.582	13.005	11.566
%RSD	.4280863	.4155099	.2240901	.7799046	.4558231
#1	1930.228	25048.39	2485.968	1666.351	2546.232
#2	1920.508	25251.45	2497.035	1681.115	2541.699
#3	1913.873	25107.49	2490.229	1655.188	2524.321

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: CCB029 Acquired: 12/15/2024 17:59:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB029 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002623**	**.0036344**	**.0023924**	**-.000261**	**-.003073**	**.0474962**	**.0003648**
Stddev	.001582	.0000993	.0022460	.006992	.003041	.0152675	.0006476
%RSD	60.32016	2.732180	93.88028	2677.028	98.94907	32.14469	177.5397
#1	-.001287	.0036775	.0006865	.005789	-.003135	.0353060	-.000369
#2	-.004370	.0037049	.0049370	-.007916	-.006082	.0425618	.000609
#3	-.002212	.0035208	.0015535	.001343	-.000002	.0646206	.000855

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001832**	**.0001002**	**.0217255**	**.0013602**	**.0000890**	**.0075177**	**.0122751**
Stddev	.0001736	.0000306	.0283031	.0008051	.0002449	.0008765	.0272519
%RSD	94.77882	30.55087	130.2763	59.19049	275.0195	11.65936	222.0086
#1	.0003007	.0001228	.0043380	.0016482	-.000157	.0084656	-.018901
#2	-.000016	.0000654	.0064542	.0004507	.000092	.0067364	.031565
#3	.000265	.0001123	.0543843	.0019817	.000332	.0073512	.024161

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011160**	**.0986318**	**.0003736**	**.0012622**	**-.603451**	**-.010452**	**-.008942**
Stddev	.0013960	.0507845	.0005533	.0015002	.499182	.004306	.007164
%RSD	125.0857	51.48892	148.0985	118.8523	82.72111	41.20264	80.11560
#1	.0011118	.0849570	.0010104	.0011915	-.953988	-.007247	-.005758
#2	-.000278	.1548536	.0000116	-.000201	-.824447	-.008761	-.017145
#3	.002514	.0560849	.0000987	.002797	-.031919	-.015347	-.003922

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0483428**	**-.000887**	**.0108553**	**.0007221**	**-.006134**	**.0005404**	**.0009997**
Stddev	.1068376	.003634	.0016569	.0004230	.002781	.0017705	.0010403
%RSD	221.0002	409.6756	15.26392	58.57953	45.33704	327.6139	104.0626
#1	-.036629	.001633	.0117072	.0011986	-.007164	.0003740	.0021728
#2	.168283	-.005053	.0089457	.0003909	-.002985	.0023883	.0001894
#3	.013375	.000758	.0119129	.0005767	-.008252	-.001141	.0006368

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: CCB029 Acquired: 12/15/2024 17:59:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB029 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.001753	.0003151	.0003296
Stddev	.001591	.0000576	.0014330
%RSD	90.72617	18.28951	434.7601
#1	-.000126	.0003701	.0015165
#2	-.003305	.0002551	.0007347
#3	-.001828	.0003199	-.001262

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2309.651	28088.28	2563.289	1946.707	3225.850
Stddev	7.906	166.72	14.361	14.850	15.290
%RSD	.3422877	.5935571	.5602536	.7628124	.4739723
#1	2300.825	27902.05	2559.577	1933.078	3212.955
#2	2316.083	28139.14	2551.148	1944.511	3242.741
#3	2312.044	28223.64	2579.141	1962.532	3221.855

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: PB165442BL Acquired: 12/15/2024 18:03:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS442 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018658	.0011079	.0000895	-.003353	-.002527	-.010391	-.000088
Stddev	.0039910	.0018605	.0001734	.001830	.001251	.007070	.000995
%RSD	213.9096	167.9331	193.7101	54.56704	49.48105	68.04318	1133.684
#1	-.002734	.0032185	-.000073	-.001965	-.002054	-.017060	-.000148
#2	.003916	.0003990	.000069	-.002668	-.001583	-.002978	.000936
#3	.004415	-.000294	.000272	-.005426	-.003946	-.011134	-.001051

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000742	.0000584	-.013136	-.000194	-.000533	-.010222	.0013460
Stddev	.0001558	.0000333	.041845	.000971	.000568	.009218	.0477117
%RSD	209.9656	57.10150	318.5483	501.4355	106.4660	90.18160	3544.573
#1	.0002461	.0000490	-.011126	-.000152	-.001181	-.005633	.0477169
#2	-.000058	.0000308	.027667	-.001185	-.000295	-.020834	.0039233
#3	.000034	.0000954	-.055950	.000756	-.000123	-.004199	-.047602

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009456	.0289093	-.000539	.0009293	-.227679	-.010268	-.003977
Stddev	.0021881	.0118900	.000777	.0008470	.915665	.007070	.001436
%RSD	231.3939	41.12870	144.1029	91.14712	402.1740	68.85024	36.10901
#1	-.001459	.0155844	-.001388	.0018995	.823399	-.002548	-.005542
#2	.002820	.0384366	.000137	.0003373	-.653872	-.016426	-.002720
#3	.001475	.0327070	-.000366	.0005510	-.852564	-.011831	-.003670

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1992637	-.001908	.0041045	.0000766	-.007926	.0000220	.0003866
Stddev	.2569769	.001160	.0011973	.0002587	.002615	.0009568	.0001173
%RSD	128.9632	60.81122	29.16992	337.5767	32.99931	4345.873	30.35120
#1	.1401559	-.002424	.0051446	-.000024	-.010943	.0009313	.0004948
#2	-.023009	-.000579	.0043732	-.000117	-.006301	-.000976	.0004030
#3	.480645	-.002721	.0027957	.000371	-.006533	.000111	.0002619

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: PB165442BL Acquired: 12/15/2024 18:03:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS442 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.002520	.0002978	-.007299
Stddev	.003110	.0003457	.006691
%RSD	123.4098	116.0800	91.67910
#1	-.003395	.0001911	-.001438
#2	.000934	.0006843	-.014589
#3	-.005099	.0000181	-.005868

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2345.109	28221.59	2562.807	1963.892	3266.430
Stddev	14.866	72.45	20.945	5.708	20.079
%RSD	.6339176	.2567154	.8172503	.2906529	.6147051
#1	2334.590	28173.07	2562.061	1959.762	3255.946
#2	2338.622	28304.87	2542.245	1970.406	3253.762
#3	2362.117	28186.83	2584.114	1961.510	3289.580

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: PB165442BS Acquired: 12/15/2024 18:07:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS442 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0208700**	**.0476446**	**.0197785**	**.0586902**	**.0930647**	**.3608528**
Stddev	.0013164	.0012059	.0008509	.0005230	.0015165	.0104140
%RSD	6.307793	2.530949	4.302347	.8910535	1.629464	2.885945
#1	.0205008	.0466730	.0199010	.0592274	.0914938	.3613754
#2	.0223317	.0489942	.0188730	.0581828	.0945201	.3709956
#3	.0197776	.0472667	.0205616	.0586604	.0931800	.3501873

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3873279**	**.0098358**	**.0089314**	**9.533278**	**.0190234**	**.0922798**
Stddev	.0011175	.0000665	.0000242	.078180	.0003903	.0001711
%RSD	.2885256	.6763693	.2706726	.8200721	2.051819	.1853595
#1	.3872343	.0097733	.0089575	9.554394	.0191579	.0921401
#2	.3884893	.0099057	.0089097	9.598730	.0193286	.0924705
#3	.3862602	.0098283	.0089271	9.446708	.0185836	.0922286

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0440081**	**.1780129**	**.0314120**	**9.978176**	**.0719253**	**.0198035**
Stddev	.0023440	.0097699	.0023536	.046081	.0005441	.0005227
%RSD	5.326369	5.488340	7.492822	.4618166	.7565131	2.639663
#1	.0462431	.1892727	.0306881	10.03132	.0725357	.0198976
#2	.0415685	.1729861	.0295053	9.94929	.0714914	.0202729
#3	.0442127	.1717798	.0340425	9.95392	.0717487	.0192401

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.47084**	**.0866187**	**.1020769**	**9.495302**	**.0163335**	F **.0011956**
Stddev	1.60018	.0075232	.0052758	.269285	.0017697	.0023515
%RSD	15.28222	8.685370	5.168476	2.835986	10.83499	196.6811
#1	11.84981	.0866982	.0980456	9.712577	.0177095	.0036387
#2	8.71628	.0790562	.1080480	9.579300	.0143371	-.001052
#3	10.84644	.0941019	.1001371	9.194029	.0169540	.001000

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: PB165442BS Acquired: 12/15/2024 18:07:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS442 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0173253	.1604191	F .4891690	.0124953	.1867875	.1976498
Stddev	.0003751	.0010840	.0059707	.0020514	.0066377	.0006579
%RSD	2.165038	.6757522	1.220589	16.41741	3.553614	.3328456
#1	.0177546	.1611570	.4850741	.0127269	.1944445	.1977478
#2	.0171606	.1591745	.4960199	.0144211	.1832523	.1982532
#3	.0170608	.1609257	.4864129	.0103380	.1826656	.1969484

Elem	Li6707
Units	ppm
Avg	F .0184420
Stddev	.0032963
%RSD	17.87404
#1	.0198872
#2	.0207689
#3	.0146699

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2309.832	28066.92	2569.319	1949.306	3195.183
Stddev	2.793	192.96	25.776	10.804	5.713
%RSD	.1208979	.6875099	1.003213	.5542383	.1788132
#1	2307.844	27853.84	2569.094	1941.937	3189.727
#2	2313.025	28117.03	2543.656	1944.273	3201.123
#3	2308.628	28229.88	2595.206	1961.708	3194.699

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: PB165377BL Acquired: 12/15/2024 18:11:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS377 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0034636**	**.0015145**	**-.001444**	**.0018750**	**-.001788**	**-.017419**	**-.000339**
Stddev	.0023977	.0008324	.002176	.0055831	.002141	.010795	.001300
%RSD	69.22747	54.95942	150.6656	297.7709	119.7440	61.97299	382.8672
#1	.0011841	.0015998	-.000379	.0047090	.000553	-.008504	-.000284
#2	.0032424	.0006428	-.000006	.0054727	-.002270	-.029422	.000932
#3	.0059642	.0023010	-.003948	-.004557	-.003646	-.014332	-.001666

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000857**	**.0000702**	**.0469373**	**-.000295**	**.0000145**	**.0054145**	**.0102583**
Stddev	.0000310	.0000227	.0574717	.000606	.0003806	.0084626	.0499299
%RSD	36.17571	32.40502	122.4436	205.6760	2625.710	156.2953	486.7281
#1	.0001107	.0000682	.0478276	-.000864	.0004486	-.002135	.0065865
#2	.0000953	.0000485	-.010974	.000343	-.000143	.014562	.0619227
#3	.0000510	.0000939	.103959	-.000364	-.000262	.003817	-.037734

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000370**	**.0621765**	**.0003642**	**-.000801**	**-.033523**	**-.007167**	**-.006780**
Stddev	.001013	.0260998	.0008050	.000314	.284537	.012047	.005093
%RSD	274.0312	41.97704	221.0361	39.19566	848.7930	168.0761	75.11570
#1	.000748	.0429362	.0010481	-.001157	-.068017	.001612	-.003303
#2	-.001226	.0918854	.0005674	-.000684	-.299240	-.020902	-.004411
#3	-.000631	.0517078	-.000523	-.000563	.266689	-.002213	-.012626

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1607653**	**.0000688**	**.0007185**	**-.000032**	**-.005527**	**.0019105**	**-.001179**
Stddev	.2148813	.0023314	.0016372	.000439	.006261	.0005923	.000742
%RSD	133.6615	3388.923	227.8469	1359.399	113.2723	31.00115	62.96777
#1	.2779061	-.000779	-.001122	-.000018	-.005404	.0018345	-.002015
#2	-.087232	-.001720	.002013	.000399	.000671	.0013599	-.000921
#3	.291622	.002706	.001264	-.000479	-.011849	.0025371	-.000600

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: PB165377BL Acquired: 12/15/2024 18:11:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS377 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.003006	.0002627	-.006775
Stddev	.001414	.0001539	.008097
%RSD	47.01759	58.57811	119.5206
#1	-.002916	.0004086	-.009184
#2	-.004463	.0002776	-.013393
#3	-.001640	.0001019	.002254

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2330.914	28354.41	2591.498	1972.479	3251.590
Stddev	7.027	154.74	14.425	11.616	5.953
%RSD	.3014644	.5457346	.5566422	.5888906	.1830717
#1	2338.944	28506.95	2598.274	1983.673	3258.428
#2	2327.905	28197.56	2601.288	1960.483	3248.778
#3	2325.892	28358.71	2574.932	1973.280	3247.564

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: PB165377BS Acquired: 12/15/2024 18:15:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS377 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0204337**	**.0475361**	**.0199598**	**.0555622**	**.0921767**	**.4053435**
Stddev	.0026287	.0008449	.0022485	.0001729	.0008554	.0205318
%RSD	12.86473	1.777324	11.26508	.3111879	.9280018	5.065295
#1	.0201047	.0465666	.0196664	.0553835	.0927239	.4203022
#2	.0179850	.0481156	.0178724	.0557286	.0911909	.4137932
#3	.0232115	.0479259	.0223406	.0555746	.0926152	.3819351

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3894544**	**.0097215**	**.0090624**	**9.628219**	**.0195167**	**.0920543**
Stddev	.0011923	.0001792	.0000629	.050406	.0015834	.0004735
%RSD	.3061441	1.843320	.6936836	.5235284	8.112877	.5144233
#1	.3881508	.0095341	.0089923	9.590275	.0179816	.0917028
#2	.3904896	.0098912	.0090810	9.685414	.0194242	.0925928
#3	.3897227	.0097392	.0091138	9.608969	.0211443	.0918674

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0499098**	**.1919005**	**.0306944**	**9.891359**	**.0725755**	**.0204088**
Stddev	.0063170	.0473455	.0015826	.017041	.0004546	.0004107
%RSD	12.65674	24.67188	5.155821	.1722810	.6263653	2.012204
#1	.0571996	.1372391	.0290519	9.908278	.0721842	.0204078
#2	.0464818	.2184024	.0322092	9.891599	.0724682	.0208200
#3	.0460479	.2200601	.0308222	9.874199	.0730742	.0199987

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.508250**	**.0984704**	**.0989951**	**9.441698**	**.0148338**	F **-.000746**
Stddev	.603675	.0091833	.0048024	.062426	.0009700	.000985
%RSD	6.348959	9.326002	4.851149	.6611781	6.539268	132.0403
#1	9.220879	.0970464	.0937614	9.461206	.0139870	-.001827
#2	10.20192	.1082826	.1031993	9.371847	.0158921	-.000510
#3	9.10195	.0900823	.1000247	9.492041	.0146223	.000100

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: PB165377BS Acquired: 12/15/2024 18:15:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS377 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0174640	.1581055	F .4896587	.0121791	.1905577	.1997542
Stddev	.0003152	.0013977	.0025218	.0010268	.0008802	.0005381
%RSD	1.805139	.8840570	.5150209	8.431069	.4619022	.2693707
#1	.0178168	.1581124	.4874029	.0111789	.1904960	.1992991
#2	.0173654	.1567043	.4923813	.0121278	.1897100	.2003481
#3	.0172099	.1594997	.4891920	.0132307	.1914672	.1996155

Elem	Li6707
Units	ppm
Avg	.0216420
Stddev	.0063711
%RSD	29.43878
#1	.0163307
#2	.0287061
#3	.0198893

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2321.418	28057.04	2586.628	1959.687	3219.038
Stddev	2.510	100.36	7.191	7.944	3.041
%RSD	.1081042	.3577021	.2780032	.4053529	.0944697
#1	2320.702	27946.30	2589.978	1956.809	3216.622
#2	2319.344	28141.98	2578.373	1968.669	3218.039
#3	2324.208	28082.85	2591.532	1953.584	3222.453

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: PB165359BL Acquired: 12/15/2024 18:19:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS359 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006666	.0021387	.0018846	-.000205	-.001360	-.026579	-.000669
Stddev	.0021543	.0008685	.0021161	.002929	.001194	.020094	.000598
%RSD	323.1624	40.60982	112.2885	1429.966	87.80824	75.59912	89.33385
#1	-.001734	.0011801	.0008445	-.002514	-.002717	-.009928	-.000124
#2	.001302	.0023627	.0004897	.003090	-.000895	-.048898	-.000575
#3	.002432	.0028733	.0043195	-.001190	-.000468	-.020911	-.001309

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001584	-.000023	-.015758	.0003707	.0001144	-.008530	-.012324
Stddev	.0000430	.000035	.051931	.0007063	.0005314	.005028	.017037
%RSD	27.14880	147.5090	329.5520	190.5265	464.4977	58.95070	138.2370
#1	.0001103	-.000049	-.033556	-.000278	.0006909	-.013301	-.027330
#2	.0001719	.000016	-.056450	.001123	.0000081	-.003279	-.015838
#3	.0001930	-.000037	.042732	.000268	-.000356	-.009009	.006195

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001529	.0550809	.0002106	.0002773	.2493689	.0034437	-.011553
Stddev	.001214	.0109849	.0002315	.0013343	.1770875	.0130187	.001371
%RSD	79.41983	19.94319	109.9239	481.0888	71.01427	378.0423	11.86378
#1	-.002486	.0445848	.0001009	.0008477	.1374529	-.010739	-.010283
#2	-.001938	.0541611	.0004765	.0012317	.4535365	.014851	-.011368
#3	-.000163	.0664967	.0000544	-.001247	.1571172	.006219	-.013006

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2701455	.0004708	-.002016	.0002214	-.008433	.0019650	-.001597
Stddev	.0240641	.0019473	.001376	.0004018	.002997	.0007483	.000579
%RSD	8.907817	413.6155	68.27482	181.4867	35.53615	38.08114	36.26402
#1	.2435916	.0013096	-.001598	.0000714	-.005276	.0016512	-.000970
#2	.2763338	.0018582	-.000896	.0006766	-.011239	.0028192	-.002112
#3	.2905110	-.001755	-.003552	-.000084	-.008782	.0014248	-.001709

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: PB165359BL Acquired: 12/15/2024 18:19:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS359 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.002769	.0000928	-.008880
Stddev	.005137	.0000874	.003092
%RSD	185.5306	94.18209	34.82274
#1	.003111	.0001841	-.007849
#2	-.005027	.0000845	-.006435
#3	-.006390	.0000099	-.012355

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2319.918	28177.73	2604.479	1963.123	3242.567
Stddev	3.155	83.10	61.965	2.565	3.078
%RSD	.1359783	.2949297	2.379158	.1306686	.0949321
#1	2317.817	28142.23	2574.835	1960.855	3241.468
#2	2318.391	28272.69	2562.905	1965.907	3240.189
#3	2323.545	28118.29	2675.697	1962.607	3246.044

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: PB165359BS Acquired: 12/15/2024 18:23:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS359 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0217073**	**.0491947**	**.0196270**	**.0533178**	**.0925889**	**.3802635**
Stddev	.0048209	.0011412	.0013645	.0031865	.0019940	.0150138
%RSD	22.20879	2.319829	6.951942	5.976520	2.153590	3.948261
#1	.0163457	.0505116	.0211025	.0508612	.0903047	.3971262
#2	.0230917	.0484932	.0193679	.0569185	.0939820	.3683464
#3	.0256846	.0485794	.0184107	.0521738	.0934798	.3753178

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3902492**	**.0096547**	**.0089895**	**9.624309**	**.0202235**	**.0912949**
Stddev	.0029794	.0002033	.0001603	.048701	.0004913	.0003820
%RSD	.7634665	2.105899	1.782850	.5060235	2.429570	.4184292
#1	.3926474	.0097831	.0089251	9.675559	.0207908	.0917343
#2	.3911864	.0094203	.0088715	9.618732	.0199351	.0910418
#3	.3869139	.0097607	.0091720	9.578636	.0199446	.0911085

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0510558**	**.1713515**	**.0311262**	**9.950077**	**.0719206**	**.0204622**
Stddev	.0030673	.0412147	.0007053	.097923	.0004553	.0000634
%RSD	6.007689	24.05272	2.266105	.9841429	.6331264	.3099031
#1	.0534409	.1884234	.0306630	10.05508	.0724187	.0205345
#2	.0475957	.1243439	.0307776	9.86125	.0718173	.0204362
#3	.0521308	.2012871	.0319379	9.93390	.0715258	.0204159

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.635655**	**.0932455**	**.0994555**	**9.557946**	**.0154924**	F **-.000833**
Stddev	.821308	.0007594	.0148663	.113885	.0017995	.001967
%RSD	8.523640	.8144369	14.94767	1.191525	11.61536	236.2356
#1	10.32363	.0934477	.1012692	9.613005	.0134628	-.002781
#2	8.72637	.0938834	.0837656	9.426994	.0168928	-.000870
#3	9.85697	.0924055	.1133317	9.633839	.0161217	.001153

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: PB165359BS Acquired: 12/15/2024 18:23:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS359 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0176460	.1550186	F .4920665	.0115679	.1906413	.1993334
Stddev	.0004032	.0022241	.0041881	.0011031	.0027769	.0008736
%RSD	2.284722	1.434729	.8511327	9.535731	1.456636	.4382569
#1	.0173219	.1564179	.4964855	.0120681	.1932960	.2002316
#2	.0180975	.1561839	.4881557	.0123323	.1908717	.1992819
#3	.0175186	.1524540	.4915582	.0103033	.1877564	.1984867

Elem	Li6707
Units	ppm
Avg	F .0204459
Stddev	.0047854
%RSD	23.40495
#1	.0158373
#2	.0201101
#3	.0253903

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2322.121	28135.02	2588.280	1960.542	3232.854
Stddev	11.960	84.87	28.122	10.165	8.297
%RSD	.5150483	.3016364	1.086522	.5184849	.2566588
#1	2321.749	28127.85	2556.621	1961.610	3230.585
#2	2334.263	28053.97	2597.853	1949.885	3242.049
#3	2310.352	28223.25	2610.366	1970.131	3225.926

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: PB165408BL Acquired: 12/15/2024 18:27:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS408 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0039213**	**.0013801**	**.0009244**	**-.001717**	**.0000859**	**-.019750**	**.0000096**
Stddev	.0029220	.0019519	.0013168	.002730	.0026696	.003175	.0012089
%RSD	74.51536	141.4317	142.4449	158.9837	3106.452	16.07516	12598.11
#1	.0034861	-.000859	.0006072	.001320	.0005324	-.016153	.0012872
#2	.0012413	.002276	-.000205	-.002506	.0025042	-.022164	-.000142
#3	.0070365	.002723	.002371	-.003966	-.002779	-.020932	-.001116

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000902**	**.0000600**	**-.008436**	**.0001501**	**-.000120**	**.0007108**	**.0195408**
Stddev	.0000709	.0000240	.017880	.0010617	.000174	.0044211	.0162812
%RSD	78.60899	40.02072	211.9354	707.2761	145.4726	621.9377	83.31921
#1	.0001472	.0000325	-.025522	-.000552	-.000009	.0057173	.0280253
#2	.0001126	.0000771	.010144	.001372	-.000030	-.002657	.0298274
#3	.0000108	.0000703	-.009931	-.000370	-.000321	-.000928	.0007696

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001506**	**.0532775**	**-.000248**	**.0005791**	**-.038560**	**.0020889**	**-.011870**
Stddev	.000868	.0489686	.000617	.0000738	1.032253	.0121285	.011838
%RSD	57.66936	91.91226	248.8393	12.73934	2676.986	580.6162	99.72491
#1	-.002397	.0105712	-.000527	.0006092	-.346752	-.011498	-.000237
#2	-.000662	.0425363	-.000676	.0004951	-.881616	.011823	-.023902
#3	-.001459	.1067251	.000459	.0006331	1.112686	.005942	-.011471

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3204808**	**-.001652**	**-.002958**	**.0004387**	**-.008152**	**.0012512**	**-.001795**
Stddev	.1466463	.000407	.001396	.0003614	.002379	.0012025	.001476
%RSD	45.75821	24.65398	47.18463	82.39251	29.18375	96.11409	82.20073
#1	.2220180	-.001258	-.004250	.0008526	-.005444	.0001453	-.003495
#2	.2504061	-.002072	-.003146	.0001856	-.009903	.0010769	-.000841
#3	.4890182	-.001627	-.001478	.0002778	-.009110	.0025313	-.001049

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: PB165408BL Acquired: 12/15/2024 18:27:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS408 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.002233	.0001975	-.009396
Stddev	.000615	.0000408	.006943
%RSD	27.54630	20.67157	73.88844
#1	-.002889	.0001514	-.012391
#2	-.001670	.0002291	-.001459
#3	-.002139	.0002121	-.014339

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2319.796	28250.21	2570.421	1963.975	3255.174
Stddev	6.758	96.15	8.542	6.305	12.400
%RSD	.2913247	.3403434	.3323247	.3210396	.3809331
#1	2320.959	28349.64	2578.637	1970.351	3255.863
#2	2325.897	28243.26	2571.038	1963.832	3267.215
#3	2312.532	28157.72	2561.587	1957.743	3242.444

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: PB165408BS Acquired: 12/15/2024 18:31:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS408 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0208627**	**.0486157**	**.0168878**	**.0550551**	**.0969031**	**.4077708**
Stddev	.0014573	.0018509	.0018954	.0071726	.0014842	.0040527
%RSD	6.985145	3.807095	11.22345	13.02807	1.531636	.9938617
#1	.0194967	.0496424	.0184215	.0619193	.0951969	.4110413
#2	.0223967	.0464791	.0174732	.0556363	.0978959	.4032369
#3	.0206947	.0497257	.0147688	.0476095	.0976165	.4090341

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3917727**	**.0099342**	**.0090561**	**9.657341**	**.0199329**	**.0919765**
Stddev	.0006944	.0001317	.0000469	.110262	.0006314	.0004116
%RSD	.1772361	1.325222	.5174382	1.141743	3.167779	.4474469
#1	.3916614	.0100860	.0090178	9.692484	.0193224	.0919577
#2	.3925160	.0098656	.0090421	9.745748	.0198930	.0915746
#3	.3911407	.0098510	.0091084	9.533791	.0205834	.0923971

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0456237**	**.2023339**	**.0304110**	**10.15312**	**.0716974**	**.0198299**
Stddev	.0099454	.0387305	.0025264	.10813	.0003494	.0011130
%RSD	21.79880	19.14189	8.307627	1.064989	.4872947	5.612768
#1	.0566926	.1660080	.0302940	10.26104	.0717120	.0200300
#2	.0427386	.1979051	.0279451	10.15356	.0713409	.0186304
#3	.0374397	.2430884	.0329939	10.04478	.0720392	.0208293

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.899030**	**.1005988**	**.1000637**	**9.729479**	**.0167161**	F **-.003060**
Stddev	.742033	.0034942	.0079551	.130971	.0012792	.001148
%RSD	7.496016	3.473370	7.950040	1.346126	7.652249	37.53334
#1	9.722537	.0979627	.0908927	9.720830	.0170822	-.002504
#2	10.71340	.1045621	.1051001	9.603047	.0152938	-.002295
#3	9.26116	.0992716	.1041984	9.864560	.0177723	-.004380

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: PB165408BS Acquired: 12/15/2024 18:31:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS408 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0175603	.1570852	F .4949146	.0114232	.1936510	.2010279
Stddev	.0006215	.0033449	.0009964	.0010850	.0024950	.0011566
%RSD	3.539333	2.129327	.2013180	9.498233	1.288400	.5753486
#1	.0182438	.1544313	.4939071	.0124289	.1929432	.2021061
#2	.0170290	.1559820	.4958995	.0102733	.1915864	.2011713
#3	.0174081	.1608424	.4949372	.0115672	.1964234	.1998062

Elem	Li6707
Units	ppm
Avg	.0216338
Stddev	.0049815
%RSD	23.02650
#1	.0271894
#2	.0175648
#3	.0201472

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2302.876	28007.00	2544.900	1939.778	3203.795
Stddev	2.620	79.26	14.251	2.832	5.372
%RSD	.1137630	.2829871	.5600002	.1460017	.1676608
#1	2299.856	28054.01	2546.819	1943.011	3200.589
#2	2304.232	27915.50	2529.786	1938.585	3209.996
#3	2304.540	28051.50	2558.094	1937.738	3200.799

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: PB165373BL Acquired: 12/15/2024 18:35:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS373 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0019611**	**.0011746**	**-.000633**	**-.000191**	**-.001513**	**-.022701**	**.0007224**
Stddev	.0022229	.0011591	.002304	.004486	.002080	.009603	.0005279
%RSD	113.3495	98.67579	363.9370	2342.926	137.5117	42.30066	73.07639
#1	.0039537	.0022539	-.000717	.003697	-.002557	-.017131	.0011705
#2	-.000436	-.000050	-.002894	.000827	.000883	-.017184	.0001405
#3	.002366	.001320	.001712	-.005099	-.002864	-.033790	.0008563

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000001**	**.0000425**	**-.017746**	**.0007197**	**.0001036**	**.0001048**	**-.002287**
Stddev	.000124	.0000096	.048479	.0005014	.0002652	.0070917	.012821
%RSD	9000.051	22.60822	273.1764	69.67500	255.9573	6764.990	560.5353
#1	-.000074	.0000325	-.055476	.0012986	-.000202	-.003677	-.011586
#2	.000141	.0000517	-.034694	.0004213	.000271	.008286	.012338
#3	-.000072	.0000432	.036931	.0004391	.000243	-.004295	-.007614

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0020168**	**.0069904**	**.0001252**	**.0012111**	**.2537445**	**.0025819**	**-.014930**
Stddev	.0019374	.0457642	.0000094	.0003736	.4652006	.0172496	.009068
%RSD	96.06397	654.6764	7.541398	30.85161	183.3342	668.1048	60.73530
#1	.0025342	.0051425	.0001318	.0007853	-.139397	.0223440	-.014427
#2	-.000127	-.037822	.0001144	.0014843	.133312	-.005145	-.006124
#3	.003643	.053650	.0001294	.0013636	.767319	-.009453	-.024239

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1275713**	**-.001284**	**-.002187**	**.0001593**	**-.004614**	**.0027901**	**-.002714**
Stddev	.0944882	.002521	.001893	.0002660	.003551	.0004589	.001431
%RSD	74.06696	196.4423	86.58362	166.9640	76.96280	16.44796	52.73572
#1	.0771029	.000173	-.000601	.0004018	-.007838	.0030356	-.001119
#2	.2365773	.000172	-.001676	-.000125	-.000808	.0030740	-.003886
#3	.0690336	-.004195	-.004283	.000201	-.005195	.0022606	-.003136

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: PB165373BL Acquired: 12/15/2024 18:35:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS373 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0001950	.0002076	-.008285
Stddev	.0018962	.0002617	.006410
%RSD	972.4814	126.0922	77.37074
#1	.0000767	-.000010	-.002471
#2	.0021476	.000135	-.015159
#3	-.001639	.000498	-.007225

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2325.361	28102.79	2563.013	1949.089	3245.680
Stddev	1.136	356.98	15.854	26.167	4.640
%RSD	.0488519	1.270268	.6185622	1.342501	.1429571
#1	2325.706	28165.37	2544.721	1957.744	3250.996
#2	2326.284	28424.33	2571.528	1969.831	3242.445
#3	2324.092	27718.65	2572.789	1919.691	3243.598

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: PB165373BS Acquired: 12/15/2024 18:39:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS373 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0210009	.0499943	.0195116	.0523439	.0925672	.3707225
Stddev	.0030597	.0003615	.0028860	.0042883	.0040225	.0080544
%RSD	14.56950	.7230569	14.79111	8.192641	4.345542	2.172623
#1	.0211548	.0501165	.0226365	.0505191	.0918405	.3727299
#2	.0178670	.0502788	.0169467	.0492697	.0889576	.3775834
#3	.0239807	.0495875	.0189515	.0572428	.0969036	.3618543

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3857945	.0097901	.0089067	9.541447	.0193646	.0914474
Stddev	.0025657	.0000296	.0001900	.018061	.0006195	.0009559
%RSD	.6650384	.3021581	2.132754	.1892889	3.198938	1.045319
#1	.3837575	.0098243	.0088781	9.523894	.0194631	.0922166
#2	.3849500	.0097736	.0087326	9.540471	.0199289	.0903772
#3	.3886760	.0097725	.0091093	9.559976	.0187018	.0917484

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0383048	.1979875	.0321982	9.996391	.0712556	.0201276
Stddev	.0119272	.0271166	.0015520	.058592	.0003962	.0005384
%RSD	31.13771	13.69610	4.820169	.5861308	.5560305	2.675108
#1	.0246326	.1803582	.0327032	10.01027	.0711126	.0198015
#2	.0437049	.1843921	.0304566	9.93211	.0709508	.0207491
#3	.0465769	.2292123	.0334349	10.04680	.0717035	.0198323

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.755707	.0935324	.1016046	9.459422	.0176009	F -.003974
Stddev	.950151	.0156153	.0056454	.078940	.0017804	.001019
%RSD	9.739441	16.69510	5.556231	.8345139	10.11540	25.65270
#1	9.671265	.0895986	.0960726	9.548326	.0195833	-.003919
#2	8.850595	.1107385	.1013843	9.432394	.0161382	-.005020
#3	10.74526	.0802602	.1073569	9.397545	.0170812	-.002983

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: PB165373BS Acquired: 12/15/2024 18:39:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS373 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0172625	.1568443	F .4860638	.0106430	.1871377	.1976237
Stddev	.0006630	.0034204	.0008442	.0004901	.0055480	.0011078
%RSD	3.840663	2.180780	.1736796	4.605358	2.964654	.5605708
#1	.0178247	.1547957	.4867431	.0111596	.1881444	.1976895
#2	.0165314	.1549443	.4863295	.0101844	.1811553	.1964845
#3	.0174315	.1607930	.4851187	.0105850	.1921134	.1986972

Elem	Li6707
Units	ppm
Avg	F .0177363
Stddev	.0009596
%RSD	5.410488
#1	.0181784
#2	.0166353
#3	.0183951

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2332.507	28123.35	2578.619	1949.644	3226.159
Stddev	13.353	96.33	3.684	5.967	21.105
%RSD	.5724731	.3425190	.1428645	.3060528	.6541925
#1	2322.635	28234.44	2579.287	1955.747	3208.977
#2	2347.700	28072.69	2581.924	1949.360	3249.717
#3	2327.186	28062.93	2574.648	1943.824	3219.782

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5012-17 Acquired: 12/15/2024 18:43:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJP9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0862568	.0138682	10.21266	.0046705	.0273367	76.07806
Stddev	.0045925	.0013276	.01127	.0012788	.0019825	.11939
%RSD	5.324209	9.572600	.1103121	27.38035	7.252301	.1569354
#1	.0820181	.0145783	10.20014	.0036732	.0250835	76.02466
#2	.0911359	.0123366	10.22198	.0061122	.0288136	76.21483
#3	.0856165	.0146897	10.21585	.0042261	.0281129	75.99468

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.257295	.0066425	.0091014	62.66482	.1512696	.1027919
Stddev	.003286	.0001278	.0000634	.32309	.0010484	.0006776
%RSD	.2613190	1.923994	.6966595	.5155844	.6930775	.6592225
#1	1.256397	.0065250	.0091246	62.32742	.1500660	.1022013
#2	1.260937	.0067786	.0090297	62.97139	.1517590	.1026428
#3	1.254553	.0066241	.0091500	62.69564	.1519838	.1035317

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2638653	154.5090	6.478957	32.65559	.2420119	-.009214
Stddev	.0059883	.4085	.016016	.05965	.0002947	.000754
%RSD	2.269459	.2643841	.2471973	.1826539	.1217898	8.185172
#1	.2705145	154.5255	6.494666	32.62686	.2417362	-.010070
#2	.2621843	154.9089	6.479555	32.72417	.2423226	-.008645
#3	.2588971	154.0924	6.462651	32.61575	.2419770	-.008928

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.088426	.1609862	2.343898	10.77819	F 13.47691	.0126846
Stddev	.251196	.0050988	.027781	.11671	.00630	.0026848
%RSD	23.07888	3.167235	1.185255	1.082795	.0467400	21.16566
#1	.817463	.1583400	2.374420	10.65242	13.48245	.0134588
#2	1.313541	.1668641	2.320087	10.88298	13.47006	.0096977
#3	1.134273	.1577544	2.337187	10.79916	13.47821	.0148971

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5012-17 Acquired: 12/15/2024 18:43:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJP9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038849	3.397539	8.108319	.1688521	1.189837	.0238242
Stddev	.0000713	.008637	.063280	.0001733	.001447	.0004097
%RSD	1.834704	.2541998	.7804342	.1026248	.1215862	1.719504
#1	.0038340	3.388100	8.036095	.1690347	1.189021	.0239110
#2	.0038542	3.405046	8.154029	.1688316	1.188982	.0241835
#3	.0039663	3.399471	8.134834	.1686899	1.191507	.0233781

Elem	Li6707
Units	ppm
Avg	.1147477
Stddev	.0032597
%RSD	2.840781
#1	.1110967
#2	.1157804
#3	.1173659

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2823.612	34218.86	3252.497	2373.308	3056.464
Stddev	7.695	154.61	25.540	14.181	5.112
%RSD	.2725288	.4518326	.7852370	.5975294	.1672469
#1	2832.477	34285.67	3280.838	2383.788	3062.364
#2	2819.711	34328.83	3245.388	2378.965	3053.659
#3	2818.649	34042.08	3231.265	2357.171	3053.368

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5012-18 Acquired: 12/15/2024 18:47:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJT9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0979243**	**.0080400**	**2.838877**	**.0024707**	**.0353417**	**69.16943**
Stddev	.0035692	.0023244	.000848	.0046004	.0020770	.18269
%RSD	3.644887	28.91088	.0298791	186.1974	5.876957	.2641139
#1	.0959258	.0053760	2.838145	.0060339	.0344729	69.30125
#2	.0958020	.0096555	2.839806	-.002723	.0377121	68.96090
#3	.1020451	.0090884	2.838678	.004101	.0338403	69.24614

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.591388**	**.0071086**	**.0095568**	**77.40014**	**.1968122**	**.1003500**
Stddev	.005063	.0001463	.0000894	.40390	.0002493	.0010396
%RSD	.3181669	2.057472	.9349073	.5218388	.1266429	1.035954
#1	1.595476	.0071293	.0096325	77.55572	.1965562	.1014520
#2	1.585724	.0069531	.0095797	76.94159	.1968263	.1002111
#3	1.592963	.0072435	.0094582	77.70312	.1970541	.0993868

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3669935**	**188.1985**	**4.647405**	**33.75371**	**.2412761**	**-.011897**
Stddev	.0007579	.5206	.011008	.09386	.0012240	.001184
%RSD	.2065085	.2766392	.2368581	.2780847	.5073095	9.952855
#1	.3668791	188.1576	4.639007	33.81077	.2426774	-.010530
#2	.3662992	187.6995	4.643341	33.80499	.2407354	-.012612
#3	.3678020	188.7384	4.659867	33.64538	.2404156	-.012549

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7795940**	**.1867577**	**2.085324**	**7.180475**	F **12.45014**	**-.002959**
Stddev	.4974927	.0049083	.024167	.105305	.01158	.001823
%RSD	63.81433	2.628190	1.158931	1.466547	.0929766	61.61640
#1	1.069391	.1921035	2.058741	7.070888	12.45064	-.003131
#2	.205147	.1857153	2.091261	7.189636	12.43832	-.004690
#3	1.064244	.1824542	2.105970	7.280900	12.46146	-.001056

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5012-18 Acquired: 12/15/2024 18:47:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJT9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0099044	5.687358	8.874004	.2389737	1.291500	.0461387
Stddev	.0006017	.004333	.035567	.0011548	.004024	.0003698
%RSD	6.075252	.0761884	.4007953	.4832338	.3115908	.8015623
#1	.0095725	5.682434	8.912531	.2399225	1.286939	.0457141
#2	.0105990	5.690589	8.842423	.2376879	1.293008	.0463904
#3	.0095417	5.689050	8.867057	.2393106	1.294552	.0463116

Elem	Li6707
Units	ppm
Avg	.1101406
Stddev	.0036482
%RSD	3.312277
#1	.1089276
#2	.1072535
#3	.1142408

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2621.043	31963.62	2980.926	2209.514	3064.709
Stddev	4.302	54.02	13.103	11.180	6.142
%RSD	.1641222	.1690150	.4395498	.5059843	.2004150
#1	2617.462	32017.49	2971.671	2220.006	3057.710
#2	2625.815	31963.92	2995.919	2210.782	3069.203
#3	2619.853	31909.45	2975.189	2197.755	3067.214

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5012-19 Acquired: 12/15/2024 18:51:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJW0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0897685	.0065332	2.169439	.0042829	.0300490	58.86769	1.301166
Stddev	.0033907	.0011927	.012305	.0056187	.0023196	.11910	.006268
%RSD	3.777116	18.25617	.5672023	131.1894	7.719411	.2023115	.4817306
#1	.0936390	.0052886	2.156645	-.001959	.0274369	58.73655	1.297094
#2	.0883442	.0066447	2.170484	.005871	.0318682	58.89739	1.298020
#3	.0873223	.0076661	2.181189	.008936	.0308417	58.96912	1.308384

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0060075	.0073883	63.96481	.1602444	.0847774	.2809324	168.9002
Stddev	.0001729	.0001414	.17440	.0006744	.0005193	.0071496	.6007
%RSD	2.878370	1.913691	.2726512	.4208759	.6125959	2.544944	.3556577
#1	.0059045	.0072983	63.85176	.1600738	.0842412	.2728732	168.4327
#2	.0062071	.0073153	63.87701	.1596717	.0852781	.2865122	168.6902
#3	.0059109	.0075513	64.16566	.1609878	.0848128	.2834118	169.5777

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.213753	30.26586	.1935840	-.009904	.4580694	.1540575	1.651126
Stddev	.018196	.08020	.0007308	.001274	.4867761	.0124232	.004739
%RSD	.4318261	.2649825	.3775227	12.86463	106.2669	8.064027	.2870098
#1	4.197205	30.25904	.1929441	-.010528	.6718087	.1405897	1.648754
#2	4.210815	30.18928	.1943804	-.008438	-.099009	.1565134	1.648041
#3	4.233240	30.34925	.1934275	-.010747	.801408	.1650693	1.656583

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.113958	9.894857	-.010201	.0076044	4.086802	9.490909	.0932338
Stddev	.107481	.072164	.000993	.0004788	.017015	.010722	.0011680
%RSD	2.101717	.7293092	9.731086	6.296807	.4163301	.1129741	1.252744
#1	5.079291	9.815121	-.009232	.0075119	4.067156	9.491017	.0919426
#2	5.028089	9.913768	-.011216	.0071786	4.096835	9.501577	.0942168
#3	5.234494	9.955683	-.010154	.0081227	4.096413	9.480133	.0935420

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5012-19 Acquired: 12/15/2024 18:51:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJW0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.162799	.0089013	.0935563
Stddev	.007198	.0003992	.0081772
%RSD	.6190623	4.484618	8.740372
#1	1.161928	.0087975	.0915739
#2	1.156076	.0085642	.1025424
#3	1.170394	.0093421	.0865526

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2541.487	31090.71	2880.494	2155.825	3075.792
Stddev	6.154	88.81	4.128	14.597	11.015
%RSD	.2421399	.2856549	.1433182	.6770886	.3581116
#1	2544.213	31037.95	2885.012	2143.100	3085.286
#2	2545.807	31193.24	2876.918	2171.760	3078.373
#3	2534.441	31040.93	2879.554	2152.617	3063.715

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5012-20 Acquired: 12/15/2024 18:55:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJW1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1103386	.0162644	2.842377	-.001475	.0282688	66.49128
Stddev	.0033841	.0048526	.003219	.004780	.0041110	.36127
%RSD	3.066974	29.83560	.1132340	324.1216	14.54266	.5433386
#1	.1099070	.0193498	2.841023	-.005279	.0308695	66.23115
#2	.1139178	.0187722	2.840057	.003891	.0235293	66.90377
#3	.1071911	.0106710	2.846052	-.003037	.0304077	66.33891

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.680520	.0070333	.0088517	130.5810	.1594406	.1063218
Stddev	.010527	.0000055	.0001037	.5265	.0011947	.0005044
%RSD	.6264230	.0786353	1.171851	.4031905	.7492904	.4743718
#1	1.675623	.0070395	.0089249	130.1903	.1582328	.1068887
#2	1.692604	.0070313	.0087330	131.1797	.1606217	.1061540
#3	1.673334	.0070290	.0088971	130.3730	.1594674	.1059228

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3559207	185.5842	5.360271	50.87773	.2218921	-.010425
Stddev	.0069320	.8869	.032646	.37900	.0007511	.000400
%RSD	1.947618	.4778706	.6090273	.7449223	.3385070	3.832430
#1	.3527223	185.4022	5.349115	50.57788	.2227586	-.009969
#2	.3638745	186.5479	5.397032	51.30371	.2214269	-.010593
#3	.3511654	184.8025	5.334666	50.75159	.2214907	-.010713

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5937152	.1899309	1.900200	5.241804	F 10.98552	.0152333
Stddev	.2970891	.0064978	.015226	.108631	.01538	.0032309
%RSD	50.03900	3.421145	.8012712	2.072388	.1399994	21.20942
#1	.8695125	.1891746	1.885305	5.357061	10.96871	.0189542
#2	.2791422	.1967738	1.899559	5.141311	10.98896	.0136077
#3	.6324910	.1838444	1.915737	5.227040	10.99889	.0131381

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5012-20 Acquired: 12/15/2024 18:55:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJW1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0114650**	**4.776345**	**9.216245**	**.1413043**	**1.235093**	**.1212163**
Stddev	.0004993	.011783	.020577	.0021496	.006632	.0013226
%RSD	4.354956	.2466847	.2232669	1.521284	.5369610	1.091122
#1	.0118146	4.765223	9.217796	.1432692	1.233567	.1203107
#2	.0108931	4.788693	9.236002	.1390084	1.242355	.1227341
#3	.0116871	4.775119	9.194936	.1416353	1.229357	.1206041

Elem	Li6707
Units	ppm
Avg	**.1060882**
Stddev	.0045357
%RSD	4.275409
#1	.1021506
#2	.1050663
#3	.1110477

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2575.817**	**31288.38**	**2931.992**	**2168.430**	**2998.922**
Stddev	3.525	36.40	5.165	8.180	5.326
%RSD	.1368370	.1163505	.1761678	.3772107	.1776080
#1	2573.922	31286.19	2937.434	2174.108	2998.251
#2	2579.883	31325.83	2927.158	2172.128	3004.552
#3	2573.644	31253.12	2931.384	2159.055	2993.963

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5012-21 Acquired: 12/15/2024 18:58:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJW2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0906189	.0163906	2.361956	-.009483	.0273626	61.83587	1.888526
Stddev	.0013246	.0024121	.001090	.005973	.0029629	.18437	.003220
%RSD	1.461706	14.71647	.0461623	62.98740	10.82814	.2981589	.1705205
#1	.0893559	.0191150	2.362641	-.012023	.0245380	61.62306	1.885317
#2	.0905032	.0145269	2.362527	-.013767	.0271031	61.94744	1.888504
#3	.0919975	.0155297	2.360698	-.002660	.0304467	61.93711	1.891757

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0070960	.0085189	223.8502	.1417994	.1158534	.3105641	188.7253
Stddev	.0000776	.0000883	.4667	.0005900	.0004463	.0012389	.7907
%RSD	1.093162	1.036155	.2084740	.4160910	.3852185	.3989018	.4189580
#1	.0070086	.0086196	223.3117	.1420333	.1163299	.3115962	187.8247
#2	.0071227	.0084550	224.1013	.1422367	.1157849	.3109059	189.3054
#3	.0071567	.0084822	224.1375	.1411284	.1154453	.3091903	189.0458

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.517290	50.68648	.3316666	-.010329	1.290734	.1654650	1.819921
Stddev	.011329	.15311	.0015548	.001085	.634411	.0146711	.010105
%RSD	.2053275	.3020663	.4687831	10.50318	49.15119	8.866605	.5552539
#1	5.504355	50.82369	.3327798	-.009077	1.160264	.1606455	1.823860
#2	5.522066	50.52132	.3323298	-.010947	.731701	.1819396	1.827463
#3	5.525448	50.71442	.3298902	-.010964	1.980237	.1538099	1.808440

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.886158	8.156210	.0158331	.0150903	3.350474	10.14499	.0776941
Stddev	.180742	.016922	.0019091	.0003793	.012048	.02740	.0019894
%RSD	3.699052	.2074786	12.05744	2.513855	.3596050	.2701007	2.560498
#1	4.764993	8.159314	.0142785	.0147686	3.353893	10.11653	.0792244
#2	5.093903	8.171366	.0152569	.0149938	3.360443	10.14725	.0754453
#3	4.799579	8.137951	.0179639	.0155086	3.337085	10.17119	.0784124

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5012-21 Acquired: 12/15/2024 18:58:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJW2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.575099	.3150772	.1042521
Stddev	.013842	.0006026	.0041498
%RSD	.8787787	.1912676	3.980568
#1	1.571118	.3150367	.1028172
#2	1.563683	.3156990	.1089289
#3	1.590494	.3144958	.1010101

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2464.064	30150.99	2845.967	2086.449	2897.192
Stddev	4.954	28.15	10.783	3.377	8.051
%RSD	.2010382	.0933479	.3788828	.1618615	.2778990
#1	2458.497	30155.67	2857.702	2087.827	2890.846
#2	2467.988	30176.50	2843.702	2082.600	2894.481
#3	2465.706	30120.80	2836.496	2088.919	2906.249

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5012-22 Acquired: 12/15/2024 19:02:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJW3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0864969	.0121776	1.871540	-.005746	.0305104	55.61931	1.379338
Stddev	.0018603	.0029878	.004332	.002240	.0035623	.56976	.012720
%RSD	2.150722	24.53518	.2314687	38.97604	11.67573	1.024401	.9221936
#1	.0846237	.0128705	1.872224	-.005768	.0299583	55.68405	1.379931
#2	.0883440	.0147580	1.866906	-.007974	.0272564	55.01993	1.366332
#3	.0865229	.0089042	1.875488	-.003495	.0343166	56.15393	1.391751

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0070853	.0067965	126.4401	.1334942	.0969175	.3074825	186.1554
Stddev	.0000563	.0000640	1.3834	.0047066	.0003143	.0031590	1.9311
%RSD	.7941563	.9414935	1.094153	3.525673	.3243073	1.027382	1.037336
#1	.0070841	.0067620	126.7403	.1305650	.0967727	.3047749	186.5632
#2	.0070297	.0068704	124.9312	.1389233	.0967018	.3067195	184.0530
#3	.0071422	.0067572	127.6488	.1309945	.0972782	.3109532	187.8499

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.950270	48.89854	.2389908	-.012100	2.045462	.1730504	1.395138
Stddev	.038988	.30818	.0013973	.001600	.567858	.0085661	.047104
%RSD	.9869731	.6302402	.5846457	13.22163	27.76187	4.950061	3.376326
#1	3.950109	48.96398	.2390637	-.010993	1.883557	.1785703	1.369211
#2	3.911363	48.56290	.2375585	-.013934	1.576139	.1773985	1.449510
#3	3.989339	49.16875	.2403501	-.011372	2.676690	.1631823	1.366694

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.524763	7.692525	.0054291	.0105717	3.153478	9.019652	.0824056
Stddev	.070622	.036441	.0035964	.0003155	.018564	.085493	.0003752
%RSD	1.560792	.4737238	66.24335	2.984442	.5886886	.9478518	.4553123
#1	4.511279	7.666981	.0081688	.0109160	3.133387	8.922685	.0822149
#2	4.461856	7.676338	.0013565	.0105026	3.157051	9.052104	.0828379
#3	4.601156	7.734256	.0067620	.0102965	3.169996	9.084168	.0821641

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5012-22 Acquired: 12/15/2024 19:02:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJW3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.480367	.1347533	.0854487
Stddev	.009258	.0011857	.0073018
%RSD	.6253952	.8799230	8.545185
#1	1.488680	.1346565	.0898094
#2	1.470390	.1336189	.0895177
#3	1.482032	.1359845	.0770190

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2483.969	30390.46	2843.119	2090.002	2985.433
Stddev	5.678	904.46	17.479	69.857	10.375
%RSD	.2285744	2.976122	.6147884	3.342444	.3475158
#1	2477.618	31091.20	2854.273	2139.351	2980.217
#2	2488.554	29369.44	2852.109	2010.069	2997.380
#3	2485.736	30710.74	2822.974	2120.586	2978.701

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4907-01A Acquired: 12/15/2024 19:06:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHE1A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1229294**	**.0278922**	**1.422318**	**.0339170**	**.0235576**	**94.93577**
Stddev	.0040943	.0032479	.007727	.0071753	.0031906	.11697
%RSD	3.330633	11.64455	.5432643	21.15536	13.54364	.1232131
#1	.1247020	.0243782	1.418402	.0422013	.0235160	94.91463
#2	.1258388	.0307840	1.417332	.0298842	.0267688	95.06187
#3	.1182475	.0285143	1.431219	.0296654	.0203881	94.83080

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.931320**	**.0144296**	**.0101184**	**277.9015**	**.1533782**	**.1287007**
Stddev	.004396	.0000429	.0001634	.7432	.0038416	.0008076
%RSD	.2276392	.2971871	1.614472	.2674265	2.504685	.6275262
#1	1.933159	.0144046	.0101174	277.8620	.1552493	.1278046
#2	1.934498	.0144051	.0099555	277.1788	.1559258	.1293723
#3	1.926302	.0144792	.0102822	278.6636	.1489595	.1289253

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.577661**	**174.0677**	**10.17936**	**82.18575**	**.2182752**	**-.009143**
Stddev	.021815	.3620	.03190	.33353	.0017001	.000739
%RSD	1.382713	.2079412	.3133577	.4058197	.7788743	8.084474
#1	1.602769	174.3368	10.20906	82.55574	.2174005	-.008964
#2	1.566852	174.2101	10.18337	82.09336	.2171905	-.009955
#3	1.563361	173.6562	10.14564	81.90817	.2202345	-.008510

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7201231**	**.2012830**	**4.347097**	**12.19097**	F **16.53562**	**.0139819**
Stddev	.1134782	.0032064	.111379	.07443	.05126	.0005627
%RSD	15.75816	1.592967	2.562155	.6105320	.3099820	4.024712
#1	.8396762	.2007813	4.426448	12.25403	16.48295	.0135277
#2	.7067964	.1983571	4.395073	12.21002	16.53855	.0146114
#3	.6138967	.2047107	4.219769	12.10887	16.58534	.0138066

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4907-01A Acquired: 12/15/2024 19:06:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHE1A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0044168	3.970727	9.365105	.1035796	.9897947	.2514076
Stddev	.0003085	.022567	.024510	.0012311	.0049457	.0010243
%RSD	6.984759	.5683359	.2617204	1.188578	.4996671	.4074194
#1	.0045677	3.947375	9.357031	.1048205	.9934587	.2519435
#2	.0046209	3.972387	9.392634	.1023585	.9917563	.2520528
#3	.0040619	3.992418	9.345651	.1035599	.9841692	.2502265

Elem	Li6707
Units	ppm
Avg	.1658521
Stddev	.0021413
%RSD	1.291098
#1	.1682286
#2	.1652550
#3	.1640728

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2723.347	33274.35	3141.308	2305.247	2850.948
Stddev	6.023	677.48	5.112	48.079	12.984
%RSD	.2211713	2.036031	.1627311	2.085653	.4554271
#1	2725.023	32932.67	3138.980	2274.570	2859.295
#2	2728.354	32835.75	3147.169	2280.513	2857.560
#3	2716.663	34054.63	3137.773	2360.659	2835.989

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5067-01DLX2 Acquired: 12/15/2024 19:10:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28M0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0371012	.0907126	.2096007	.0702438	.1818476	72.32734
Stddev	.0034052	.0073368	.0026777	.0059257	.0033444	.23046
%RSD	9.178168	8.087944	1.277509	8.435837	1.839127	.3186290
#1	.0408621	.0857018	.2076483	.0768723	.1780076	72.30071
#2	.0342272	.0873021	.2126532	.0654597	.1841219	72.56995
#3	.0362143	.0991339	.2085005	.0683994	.1834135	72.11136

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4822183	.0055355	.0075676	F 1127.289	5.964658	.0881320
Stddev	.0019354	.0000839	.0001341	3.284	.004514	.0002262
%RSD	.4013473	1.515905	1.772064	.2913450	.0756819	.2566978
#1	.4818339	.0055291	.0076217	1128.137	5.965876	.0883755
#2	.4843170	.0056224	.0074149	1130.065	5.968438	.0880923
#3	.4805040	.0054550	.0076661	1123.663	5.959659	.0879283

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.039846	750.5274	F 121.8084	200.2915	.2051224	-.042445
Stddev	.004996	3.3515	.4640	.9858	.0009098	.001253
%RSD	12.53949	.4465522	.3809061	.4922060	.4435606	2.951879
#1	-.036791	748.1990	121.4389	199.6591	.2045939	-.043705
#2	-.045612	754.3686	122.3291	201.4275	.2046004	-.041199
#3	-.037135	749.0146	121.6571	199.7881	.2061730	-.042432

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.257505	2.480733	.2469434	1.216413	F 13.91096	.1199205
Stddev	.371280	.012078	.0144875	.133346	.04812	.0091358
%RSD	16.44648	.4868677	5.866715	10.96222	.3458876	7.618225
#1	2.509077	2.492956	.2312638	1.079136	13.89009	.1097871
#2	2.432357	2.468806	.2497336	1.224658	13.87681	.1224478
#3	1.831082	2.480436	.2598328	1.345445	13.96599	.1275267

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5067-01DLX2 Acquired: 12/15/2024 19:10:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28M0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0156429	29.38566	5.818286	.0947211	11.37351	.5282161
Stddev	.0006151	.08371	.051779	.0011118	.05823	.0014280
%RSD	3.931980	.2848773	.8899312	1.173724	.5119675	.2703486
#1	.0156149	29.36397	5.818652	.0955100	11.30844	.5266634
#2	.0162715	29.31492	5.869880	.0952037	11.42071	.5294732
#3	.0150423	29.47808	5.766325	.0934496	11.39137	.5285116

Elem	Li6707
Units	ppm
Avg	.1284287
Stddev	.0018315
%RSD	1.426100
#1	.1271669
#2	.1305294
#3	.1275899

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2114.931	26490.67	2595.708	1804.954	2641.177
Stddev	5.149	23.78	9.411	3.067	7.053
%RSD	.2434805	.0897490	.3625595	.1699308	.2670472
#1	2118.157	26473.44	2593.289	1801.419	2641.036
#2	2117.643	26517.79	2587.742	1806.535	2648.300
#3	2108.992	26480.77	2606.092	1806.909	2634.196

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5067-02DLX2 Acquired: 12/15/2024 19:14:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28M1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0410587	.0840360	.2939146	.0516553	.1877096	72.82333
Stddev	.0013959	.0049765	.0036240	.0055306	.0018430	.43948
%RSD	3.399771	5.921825	1.232999	10.70681	.9818602	.6034922
#1	.0414392	.0862859	.2979865	.0532229	.1895447	73.33017
#2	.0422248	.0783319	.2910432	.0455100	.1858587	72.54785
#3	.0395119	.0874903	.2927142	.0562328	.1877254	72.59199

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6956292	.0107868	.0089529	F 1043.632	6.270912	.0901542
Stddev	.0040880	.0001734	.0002486	4.525	.016801	.0009170
%RSD	.5876651	1.607551	2.776341	.4335772	.2679205	1.017120
#1	.6999380	.0109747	.0088423	1048.793	6.252854	.0911046
#2	.6918053	.0106330	.0092376	1041.760	6.286082	.0892748
#3	.6951445	.0107526	.0087788	1040.344	6.273801	.0900830

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0129507	744.3764	F 93.31770	188.6808	.5564657	-.047367
Stddev	.0019104	5.2757	.65450	1.0366	.0003452	.000739
%RSD	14.75141	.7087356	.7013622	.5493844	.0620254	1.560792
#1	.0113595	750.2260	94.04703	189.8733	.5560688	-.047535
#2	.0150695	739.9788	92.78149	187.9955	.5566950	-.046558
#3	.0124231	742.9245	93.12460	188.1735	.5566334	-.048008

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.968108	.9591334	.2107943	2.773378	8.445073	.3480306
Stddev	.456042	.0141296	.0036932	.151986	.025440	.0028635
%RSD	15.36474	1.473162	1.752019	5.480165	.3012400	.8227646
#1	2.460178	.9663776	.2130009	2.815408	8.417087	.3509632
#2	3.101742	.9428509	.2065307	2.899926	8.451333	.3478870
#3	3.342403	.9681717	.2128513	2.604800	8.466798	.3452416

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5067-02DLX2 Acquired: 12/15/2024 19:14:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28M1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0305275	42.56692	5.124770	.0845466	7.773347	.0449362
Stddev	.0006328	.09610	.037011	.0002169	.069423	.0005844
%RSD	2.072826	.2257616	.7221998	.2565929	.8930921	1.300589
#1	.0311137	42.53842	5.154714	.0847571	7.853509	.0453348
#2	.0298567	42.48829	5.083391	.0845591	7.733626	.0442653
#3	.0306122	42.67405	5.136205	.0843237	7.732906	.0452085

Elem	Li6707
Units	ppm
Avg	.1382725
Stddev	.0020132
%RSD	1.455938
#1	.1375289
#2	.1367369
#3	.1405517

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2148.354	27070.07	2648.455	1845.385	2656.987
Stddev	1.447	162.46	25.423	15.695	1.398
%RSD	.0673651	.6001452	.9599281	.8505144	.0526175
#1	2148.396	26986.94	2621.593	1835.278	2655.933
#2	2146.887	26965.99	2672.142	1837.410	2656.455
#3	2149.780	27257.27	2651.629	1863.467	2658.573

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5067-03DLX2 Acquired: 12/15/2024 19:17:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28M2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0243544**	**.0444499**	**.1309664**	**-.006483**	**.0414518**	**43.03429**	**.4613443**
Stddev	.0043578	.0045160	.0016823	.005551	.0012793	.28562	.0027433
%RSD	17.89352	10.15987	1.284562	85.63153	3.086253	.6636931	.5946361
#1	.0293320	.0414319	.1299430	-.000185	.0404204	42.77059	.4584996
#2	.0225042	.0496418	.1329080	-.010666	.0428834	42.99462	.4615599
#3	.0212268	.0422761	.1300480	-.008597	.0410516	43.33767	.4639735

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0046417**	**.0029277**	**519.9265**	**1.160363**	**.0693649**	**.0454895**	**233.0073**
Stddev	.0001006	.0001595	3.2952	.003262	.0005576	.0038089	1.2943
%RSD	2.168020	5.447948	.6337728	.2811374	.8039183	8.373221	.5554941
#1	.0045348	.0027998	516.4146	1.158102	.0698189	.0494322	231.6970
#2	.0046557	.0031064	520.4144	1.164103	.0687425	.0418302	233.0399
#3	.0047346	.0028768	522.9504	1.158884	.0695334	.0452060	234.2851

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**27.60236**	**102.2063**	**.1234077**	**-.012824**	**1.331236**	**.3775655**	**.1801232**
Stddev	.17236	.7596	.0009163	.000724	.593060	.0129954	.0070538
%RSD	.6244512	.7432485	.7425026	5.643656	44.54961	3.441896	3.916073
#1	27.43833	101.4220	.1232748	-.013634	1.987173	.3737137	.1867877
#2	27.58675	102.2583	.1225651	-.012240	.832884	.3920514	.1727359
#3	27.78200	102.9386	.1243832	-.012599	1.173650	.3669314	.1808459

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.533116**	**3.144882**	**.1467260**	**.0126694**	**14.01009**	**7.997074**	**.0284796**
Stddev	.135280	.025616	.0027876	.0009698	.08779	.018542	.0011567
%RSD	5.340456	.8145362	1.899879	7.654290	.6265966	.2318636	4.061488
#1	2.530134	3.123080	.1462084	.0115685	13.97265	8.013332	.0275190
#2	2.399351	3.138471	.1442335	.0130425	13.94722	8.001011	.0297636
#3	2.669862	3.173094	.1497361	.0133971	14.11039	7.976879	.0281564

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5067-03DLX2 Acquired: 12/15/2024 19:17:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28M2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	2.503801	.4696285	.0898979
Stddev	.013285	.0037585	.0036055
%RSD	.5306130	.8003234	4.010718
#1	2.489530	.4661491	.0881728
#2	2.506064	.4691217	.0940420
#3	2.515810	.4736148	.0874791

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2267.212	27767.04	2641.550	1923.935	2821.945
Stddev	15.861	49.84	10.157	8.256	22.956
%RSD	.6995816	.1794874	.3845204	.4291160	.8134896
#1	2277.183	27810.07	2635.484	1932.954	2838.166
#2	2275.531	27712.43	2653.277	1916.750	2831.990
#3	2248.922	27778.62	2635.891	1922.103	2795.678

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: CCV030 Acquired: 12/15/2024 19:21:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV030 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.816856**	**4.854990**	**23.80364**	**4.595654**	**4.632597**	**390.6082**	**9.816482**
Stddev	.009982	.011785	.05037	.009603	.005861	1.4290	.019846
%RSD	.2072397	.2427298	.2116195	.2089505	.1265186	.3658376	.2021748
#1	4.815840	4.841718	23.75317	4.595120	4.628340	390.1492	9.810479
#2	4.827308	4.864228	23.85391	4.605513	4.639282	392.2103	9.838636
#3	4.807421	4.859024	23.80383	4.586330	4.630169	389.4651	9.800329

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4775143**	**2.381883**	**398.9024**	**14.75127**	**2.351727**	**14.76399**	**401.8717**
Stddev	.0009793	.003056	1.5672	.02564	.004120	.00380	1.2460
%RSD	.2050783	.1283027	.3928744	.1738060	.1752110	.0257089	.3100598
#1	.4768134	2.380570	398.5496	14.77823	2.349904	14.76800	402.4024
#2	.4770963	2.385376	400.6159	14.72719	2.356445	14.76350	402.7646
#3	.4786332	2.379703	397.5416	14.74839	2.348833	14.76046	400.4482

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.56949**	**388.7432**	**2.394430**	**1.210153**	**395.9310**	**2.432054**	**14.70531**
Stddev	.03613	.9578	.003672	.001052	.9755	.044005	.06457
%RSD	.2480041	.2463768	.1533377	.0869308	.2463733	1.809386	.4391183
#1	14.54312	388.6405	2.392891	1.210397	396.7256	2.395929	14.73503
#2	14.61068	389.7482	2.398621	1.211061	396.2252	2.481063	14.74968
#3	14.55469	387.8409	2.391779	1.209000	394.8423	2.419170	14.63123

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**145.1337**	**4.773080**	**4.649665**	**4.623996**	**4.788151**	**4.869521**	**4.825180**
Stddev	.5390	.007233	.007696	.006296	.009707	.009777	.011610
%RSD	.3713649	.1515316	.1655228	.1361495	.2027371	.2007802	.2406059
#1	145.6299	4.769261	4.643526	4.620797	4.794814	4.859495	4.812368
#2	145.2111	4.781422	4.647170	4.631249	4.792626	4.870038	4.835004
#3	144.5603	4.768558	4.658300	4.619943	4.777014	4.879029	4.828167

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: CCV030 Acquired: 12/15/2024 19:21:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV030 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	**4.898991**	**4.624726**	**5.086026**
Stddev	.002274	.012361	.014458
%RSD	.0464244	.2672874	.2842773
#1	4.901200	4.624552	5.102608
#2	4.899116	4.637172	5.079413
#3	4.896657	4.612452	5.076056

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1931.275**	**25228.52**	**2503.901**	**1680.263**	**2565.632**
Stddev	2.325	111.89	1.745	4.616	3.872
%RSD	.1204005	.4435021	.0696873	.2746918	.1509314
#1	1933.950	25136.71	2504.304	1676.143	2570.045
#2	1929.732	25195.70	2501.990	1679.394	2562.798
#3	1930.144	25353.14	2505.409	1685.251	2564.055

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: CCB030 Acquired: 12/15/2024 19:25:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB030 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0028257**	**.0023657**	**.0020192**	**.0009179**	**-.003020**	**-.018354**	**.0006783**
Stddev	.0029190	.0005613	.0020827	.0049861	.001214	.019724	.0007978
%RSD	103.3003	23.72574	103.1425	543.2018	40.20021	107.4638	117.6198
#1	-.000544	.0021554	.0008319	.0047486	-.004230	-.005341	.0002466
#2	.004439	.0019399	.0044240	.0027248	-.003028	-.041049	.0015990
#3	.004582	.0030018	.0008017	-.004720	-.001802	-.008674	.0001894

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000510**	**.0000025**	**-.012278**	**-.000423**	**-.000053**	**-.006159**	**.0037707**
Stddev	.0000662	.0000487	.049592	.000187	.000361	.003769	.0291453
%RSD	129.9295	1966.744	403.9019	44.20485	687.6396	61.19900	772.9424
#1	.0001128	-.000023	-.016605	-.000615	.000180	-.003320	.0347205
#2	-.000019	.000059	-.059565	-.000242	-.000469	-.010435	-.000257
#3	.000059	-.000028	.039335	-.000411	.000132	-.004722	-.023151

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002326**	**.0941412**	**.0006862**	**.0003470**	**-.796150**	**-.001377**	**-.007217**
Stddev	.0007080	.0526708	.0002380	.0004677	.575484	.005801	.003420
%RSD	304.3588	55.94873	34.67813	134.7828	72.28342	421.2241	47.38887
#1	.0004556	.1526757	.0009587	.0006243	-1.05587	-.005790	-.005599
#2	-.000560	.0505736	.0005195	.0006096	-1.19600	-.003536	-.004906
#3	.000802	.0791744	.0005803	-.000193	-.13658	.005194	-.011146

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5455238**	**-.001515**	**.0085667**	**.0005124**	**-.002088**	**.0024138**	**-.000798**
Stddev	.1530768	.001243	.0023839	.0002039	.001973	.0001323	.000484
%RSD	28.06051	82.06938	27.82805	39.78949	94.47836	5.480770	60.57093
#1	.4204925	-.001792	.0104100	.0007451	-.000793	.0023627	-.001185
#2	.7162424	-.000156	.0094155	.0004271	-.004359	.0023147	-.000954
#3	.4998365	-.002595	.0058745	.0003650	-.001112	.0025641	-.000256

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: CCB030 Acquired: 12/15/2024 19:25:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB030 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.000934	.0001392	.0033009
Stddev	.002526	.0001510	.0023474
%RSD	270.3561	108.4551	71.11416
#1	-.001183	.0000097	.0035796
#2	.001707	.0003050	.0008266
#3	-.003327	.0001029	.0054965

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2314.724	28089.03	2554.109	1957.126	3246.956
Stddev	5.814	154.00	21.270	7.083	4.391
%RSD	.2511925	.5482398	.8327905	.3618916	.1352304
#1	2319.885	27934.98	2533.120	1953.565	3251.898
#2	2315.863	28089.12	2553.557	1952.529	3243.503
#3	2308.425	28242.97	2575.650	1965.282	3245.467

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5067-04DLX2 Acquired: 12/15/2024 19:29:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28M3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0225009	.0330815	.0482060	-.044346	-.008546	20.27046	.5947114
Stddev	.0036071	.0012597	.0016882	.002062	.005738	.04677	.0019856
%RSD	16.03092	3.807895	3.501943	4.650459	67.14434	.2307365	.3338800
#1	.0261373	.0344884	.0497935	-.046706	-.002163	20.28366	.5947816
#2	.0189238	.0326979	.0483919	-.043442	-.013276	20.21851	.5926917
#3	.0224417	.0320582	.0464326	-.042890	-.010197	20.30921	.5966611

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018890	.0017340	683.8794	.0394396	.0668442	.0496537	55.39091
Stddev	.0000307	.0001017	2.0796	.0014241	.0003428	.0027498	.24108
%RSD	1.622840	5.862544	.3040934	3.610810	.5128141	5.537971	.4352428
#1	.0019244	.0016170	682.7597	.0404359	.0671549	.0469872	55.23607
#2	.0018710	.0017843	682.5995	.0400744	.0669014	.0494940	55.26798
#3	.0018716	.0018007	686.2790	.0378085	.0664765	.0524798	55.66868

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.280971	247.7486	.0846483	-.003456	.1515126	.0725664	.1315626
Stddev	.002447	1.1819	.0002621	.000190	.5601065	.0066794	.0068255
%RSD	.1910031	.4770550	.3095896	5.484109	369.6765	9.204585	5.188008
#1	1.282886	247.6585	.0843666	-.003371	-.065031	.0648540	.1277832
#2	1.281812	246.6143	.0848849	-.003324	.787564	.0763550	.1274628
#3	1.278214	248.9730	.0846932	-.003673	-.267995	.0764901	.1394418

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.581243	1.147160	.0143971	.0191656	18.14549	4.439462	.0090490
Stddev	.039798	.006789	.0026561	.0001677	.04284	.010949	.0010669
%RSD	1.541806	.5918442	18.44889	.8752158	.2360990	.2466258	11.79018
#1	2.560539	1.141417	.0161982	.0191204	18.18967	4.450694	.0102028
#2	2.556065	1.145409	.0113467	.0190251	18.10413	4.438872	.0088460
#3	2.627125	1.154653	.0156465	.0193513	18.14266	4.428820	.0080981

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5067-04DLX2 Acquired: 12/15/2024 19:29:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28M3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5859452	7.379751	.0907292
Stddev	.0054416	.011314	.0062535
%RSD	.9286860	.1533168	6.892450
#1	.5819959	7.375378	.0835180
#2	.5836874	7.371276	.0940119
#3	.5921523	7.392600	.0946578

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2183.908	26690.70	2553.874	1841.029	2704.340
Stddev	7.237	141.69	13.690	21.472	9.444
%RSD	.3313958	.5308561	.5360514	1.166327	.3492175
#1	2190.778	26751.58	2554.326	1858.471	2711.737
#2	2184.594	26791.79	2567.333	1847.568	2707.579
#3	2176.353	26528.75	2539.964	1817.047	2693.702

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5067-05DLX2 Acquired: 12/15/2024 19:33:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28M4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019281	.0384417	.0623671	-.057141	-.010986	4.336867
Stddev	.0041382	.0018047	.0038488	.003007	.004848	.009118
%RSD	214.6279	4.694722	6.171118	5.263041	44.12634	.2102523
#1	.0034507	.0404233	.0651800	-.056662	-.012239	4.345132
#2	.0050893	.0368924	.0579809	-.054402	-.005635	4.327085
#3	-.002756	.0380093	.0639403	-.060359	-.015085	4.338382

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7878888	.0007370	.0006249	F 892.2093	.0270615	.0536786
Stddev	.0025288	.0001494	.0000925	1.5300	.0009976	.0007273
%RSD	.3209565	20.27560	14.79686	.1714802	3.686357	1.354833
#1	.7859379	.0005981	.0006896	893.5473	.0266944	.0538947
#2	.7869828	.0007178	.0005190	890.5413	.0281907	.0528678
#3	.7907458	.0008951	.0006660	892.5393	.0262995	.0542733

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0203350	21.11593	.5364214	485.2023	.0415299	-.000016
Stddev	.0084707	.04186	.0019466	.6808	.0003940	.000893
%RSD	41.65580	.1982304	.3628787	.1403200	.9487786	5439.330
#1	.0163148	21.12528	.5373281	485.2621	.0419271	.000999
#2	.0146229	21.07019	.5341869	484.4936	.0415233	-.000677
#3	.0300673	21.15233	.5377492	485.8514	.0411391	-.000371

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1682391	.0299990	.0286844	.1104929	.4836608	.0470674
Stddev	.4335271	.0178867	.0020874	.0448762	.0045761	.0021679
%RSD	257.6852	59.62415	7.277171	40.61457	.9461374	4.605908
#1	.0859061	.0441151	.0283970	.1329573	.4884952	.0467182
#2	.6370289	.0098840	.0267555	.1397006	.4793964	.0493887
#3	-.218218	.0359979	.0309006	.0588208	.4830906	.0450953

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5067-05DLX2 Acquired: 12/15/2024 19:33:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28M4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030509	10.21868	1.930876	.0075045	.0547926	20.80809
Stddev	.0003046	.01532	.008475	.0025022	.0040742	.29034
%RSD	9.982905	.1499594	.4389006	33.34291	7.435749	1.395307
#1	.0028025	10.22937	1.931459	.0100959	.0529846	20.63502
#2	.0033907	10.20112	1.939045	.0073152	.0519352	21.14329
#3	.0029594	10.22555	1.922126	.0051023	.0594580	20.64598

Elem	Li6707
Units	ppm
Avg	.0850509
Stddev	.0068642
%RSD	8.070704
#1	.0842423
#2	.0786268
#3	.0922836

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2095.931	25643.62	2474.939	1746.195	2589.347
Stddev	7.764	41.16	10.839	5.788	8.048
%RSD	.3704240	.1605221	.4379438	.3314493	.3108161
#1	2098.296	25627.54	2481.020	1740.749	2589.831
#2	2102.237	25690.40	2462.425	1752.273	2597.141
#3	2087.260	25612.93	2481.372	1745.563	2581.067

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5067-08DLX2 Acquired: 12/15/2024 19:37:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28M7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0299452	.0293908	.0528877	-.039707	-.005042	23.96299	.6853305
Stddev	.0051979	.0047853	.0006342	.005639	.001771	.28527	.0088454
%RSD	17.35818	16.28161	1.199082	14.20184	35.12293	1.190465	1.290677
#1	.0306952	.0248438	.0528508	-.037631	-.003208	24.16850	.6899792
#2	.0347274	.0343832	.0535395	-.035401	-.006742	24.08319	.6908824
#3	.0244130	.0289453	.0522728	-.046090	-.005176	23.63729	.6751301

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023067	.0019527	658.1787	.0490229	.0723837	.0575884	67.98669
Stddev	.0001833	.0001346	7.1178	.0001440	.0002901	.0121003	.83936
%RSD	7.945380	6.894756	1.081441	.2936671	.4007301	21.01180	1.234600
#1	.0021040	.0018338	662.2447	.0489630	.0722209	.0623831	68.64503
#2	.0023554	.0019254	662.3315	.0491871	.0727186	.0665566	68.27354
#3	.0024607	.0020989	649.9599	.0489185	.0722117	.0438254	67.04151

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.515712	253.1386	.0984697	-.004133	.1478512	.0810084	.1590022
Stddev	.017083	2.8147	.0007378	.000801	.0267482	.0171960	.0021279
%RSD	1.127045	1.111920	.7493189	19.37321	18.09127	21.22744	1.338302
#1	1.525265	255.1374	.0976182	-.003436	.1545467	.1001586	.1591663
#2	1.525883	254.3587	.0988695	-.005008	.1706156	.0759780	.1610433
#3	1.495990	249.9197	.0989214	-.003955	.1183914	.0668886	.1567969

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.107571	1.396915	.0146946	.0184285	15.87106	4.578217	.0104328
Stddev	.183042	.004519	.0027227	.0004733	.06295	.033230	.0016009
%RSD	5.890198	.3235163	18.52856	2.568532	.3966109	.7258189	15.34460
#1	3.060406	1.394253	.0171921	.0179105	15.86795	4.603172	.0096750
#2	3.309580	1.394359	.0150995	.0185363	15.80973	4.590981	.0122718
#3	2.952727	1.402133	.0117921	.0188386	15.93550	4.540498	.0093515

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5067-08DLX2 Acquired: 12/15/2024 19:37:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28M7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6073412	1.066819	.1132072
Stddev	.0066017	.012535	.0114527
%RSD	1.086989	1.175020	10.11660
#1	.6115280	1.075547	.1150860
#2	.6107646	1.072456	.1236044
#3	.5997309	1.052455	.1009313

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2217.866	27041.29	2598.402	1866.150	2712.293
Stddev	9.335	150.71	28.951	9.186	8.399
%RSD	.4208930	.5573354	1.114193	.4922480	.3096558
#1	2227.015	26996.60	2573.265	1863.408	2720.294
#2	2218.229	26917.99	2591.886	1858.648	2713.037
#3	2208.356	27209.30	2630.056	1876.395	2703.546

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5067-12DLX2 Acquired: 12/15/2024 19:41:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28N1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0485704	.0248790	.0700912	-.044073	.0044623	31.19122	.1494366
Stddev	.0035814	.0017713	.0031593	.012829	.0010716	.26588	.0015126
%RSD	7.373706	7.119643	4.507431	29.10776	24.01334	.8524222	1.012231
#1	.0511560	.0261933	.0708756	-.055899	.0037700	31.04393	.1481566
#2	.0444825	.0228647	.0727844	-.045885	.0039204	31.49815	.1511059
#3	.0500726	.0255791	.0666136	-.030435	.0056966	31.03159	.1490475

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033849	.0027812	593.0689	.0633372	.0855694	.0641416	106.7363
Stddev	.0002468	.0000165	4.2914	.0004527	.0002925	.0059986	.9108
%RSD	7.291796	.5918056	.7235899	.7147561	.3418004	9.352048	.8533255
#1	.0035892	.0027987	591.2560	.0628845	.0853424	.0601567	106.2115
#2	.0034550	.0027788	597.9692	.0637899	.0858994	.0612277	107.7880
#3	.0031107	.0027660	589.9815	.0633373	.0854662	.0710405	106.2095

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.124847	90.14924	.1399980	-.007828	-.031967	.0990801	.2091751
Stddev	.020921	.54765	.0012077	.000903	.552989	.0045420	.0136238
%RSD	.9845820	.6074964	.8626445	11.53988	1729.897	4.584185	6.513092
#1	2.114900	89.70890	.1393135	-.006821	-.670422	.1038473	.2128700
#2	2.148886	90.76247	.1413924	-.008568	.296053	.0985900	.2205703
#3	2.110756	89.97635	.1392880	-.008095	.278470	.0948030	.1940850

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.204630	2.365600	.0018970	.0307044	13.98408	5.199362	.0123661
Stddev	.208089	.006082	.0004346	.0001135	.02946	.014897	.0014174
%RSD	4.949037	.2571052	22.91157	.3697602	.2106368	.2865072	11.46216
#1	4.101088	2.359196	.0021513	.0308067	13.95141	5.185123	.0138833
#2	4.444178	2.371299	.0013951	.0307241	13.99219	5.214839	.0110759
#3	4.068625	2.366305	.0021446	.0305823	14.00862	5.198125	.0121392

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5067-12DLX2 Acquired: 12/15/2024 19:41:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28N1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4810422	.8829590	.1111117
Stddev	.0062689	.0077789	.0042875
%RSD	1.303190	.8810004	3.858711
#1	.4867417	.8784205	.1063746
#2	.4743278	.8919411	.1122345
#3	.4820571	.8785155	.1147262

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2286.115	27777.66	2664.397	1919.492	2794.517
Stddev	12.029	105.01	12.794	8.048	10.762
%RSD	.5261648	.3780345	.4801790	.4192923	.3851003
#1	2291.904	27882.14	2675.551	1924.786	2796.564
#2	2272.286	27672.12	2650.431	1910.230	2782.878
#3	2294.153	27778.72	2667.209	1923.460	2804.108

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5067-18DLX2 Acquired: 12/15/2024 19:44:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28N7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0268333	.0276953	.0565578	-.038652	.0017721	24.18778	.5152988
Stddev	.0054320	.0021170	.0016470	.004442	.0008132	.09217	.0016545
%RSD	20.24356	7.643773	2.912066	11.49306	45.89222	.3810517	.3210703
#1	.0271398	.0256696	.0555495	-.040306	.0017146	24.28498	.5171655
#2	.0321055	.0298931	.0556655	-.042030	.0009891	24.17670	.5140136
#3	.0212545	.0275231	.0584584	-.033620	.0026125	24.10165	.5147173

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024158	.0020642	577.5329	.0567330	.0724322	.0721719	70.57066
Stddev	.0000884	.0000877	2.0487	.0004132	.0002843	.0060528	.13751
%RSD	3.659696	4.249036	.3547326	.7284198	.3925404	8.386588	.1948520
#1	.0024583	.0020256	579.7981	.0562840	.0723516	.0757675	70.69522
#2	.0024750	.0020025	575.8097	.0568174	.0721969	.0755644	70.59366
#3	.0023142	.0021646	576.9909	.0570975	.0727481	.0651837	70.42311

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.583984	181.3733	.1012109	-.004471	.4164051	.0809262	.1768633
Stddev	.006301	.5986	.0002658	.000526	.0428077	.0003369	.0031326
%RSD	.3978052	.3300539	.2626167	11.76480	10.28031	.4162886	1.771204
#1	1.585108	181.9769	.1009061	-.004703	.3745068	.0806629	.1740969
#2	1.589647	180.7798	.1013944	-.003869	.4600677	.0808098	.1762282
#3	1.577196	181.3632	.1013323	-.004840	.4146407	.0813058	.1802648

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.351439	1.621239	.0059581	.0188250	17.18621	4.913556	.0109905
Stddev	.095223	.003552	.0026029	.0005342	.03428	.034659	.0009078
%RSD	2.841269	.2190967	43.68720	2.837669	.1994344	.7053825	8.260327
#1	3.417152	1.619423	.0030982	.0187084	17.14812	4.952514	.0108800
#2	3.394930	1.618962	.0081888	.0183588	17.19592	4.902013	.0119485
#3	3.242236	1.625332	.0065872	.0194079	17.21457	4.886140	.0101430

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5067-18DLX2 Acquired: 12/15/2024 19:44:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28N7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6464127	1.562166	.0927826
Stddev	.0015735	.004153	.0050702
%RSD	.2434136	.2658197	5.464625
#1	.6446807	1.565849	.0968652
#2	.6468035	1.562984	.0871072
#3	.6477540	1.557665	.0943753

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2235.510	27224.31	2617.518	1886.722	2761.412
Stddev	12.403	38.05	20.737	2.292	11.460
%RSD	.5547951	.1397555	.7922249	.1214973	.4149989
#1	2230.567	27181.69	2593.579	1885.171	2756.425
#2	2249.622	27236.42	2629.050	1889.355	2774.521
#3	2226.341	27254.83	2629.926	1885.639	2753.291

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4940-02DLX2 Acquired: 12/15/2024 19:48:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHS8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0224789**	**.0357064**	**.5742739**	**-.049763**	**-.009535**	**13.63263**	**.2572250**
Stddev	.0016271	.0017092	.0020541	.005721	.000797	.09084	.0014559
%RSD	7.238136	4.786679	.3576915	11.49648	8.362504	.6663068	.5659966
#1	.0230265	.0353557	.5764586	-.048620	-.008712	13.53817	.2555993
#2	.0237616	.0375637	.5739813	-.055969	-.009589	13.64039	.2576673
#3	.0206487	.0341998	.5723817	-.044699	-.010304	13.71934	.2584086

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016025**	**.0066296**	**793.9560**	**.0374402**	**.0656577**	**.0805836**	**65.45184**
Stddev	.0001213	.0001134	2.9129	.0003266	.0004030	.0022143	.16417
%RSD	7.570798	1.710817	.3668878	.8722172	.6137516	2.747875	.2508221
#1	.0016695	.0065176	790.9769	.0378071	.0654418	.0790857	65.33551
#2	.0016756	.0066268	794.0932	.0371815	.0661226	.0795380	65.38038
#3	.0014625	.0067444	796.7979	.0373320	.0654087	.0831272	65.63962

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.736794**	**416.7508**	**.0556175**	**-.002090**	**-.252245**	**.0317654**	**1.237725**
Stddev	.024069	2.1697	.0006284	.001624	.355456	.0044981	.018911
%RSD	.3572817	.5206137	1.129934	77.71014	140.9173	14.16028	1.527892
#1	6.709054	414.5855	.0563268	-.000820	-.660521	.0332891	1.220099
#2	6.749185	416.7420	.0551303	-.001530	-.084597	.0353037	1.257702
#3	6.752143	418.9248	.0553953	-.003920	-.011615	.0267034	1.235375

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.350557**	**2.814835**	**.0250186**	**.0011398**	**18.00668**	**4.975454**	**.0176322**
Stddev	.187909	.011281	.0022551	.0007376	.03359	.009721	.0025867
%RSD	4.319196	.4007743	9.013598	64.71697	.1865304	.1953793	14.67010
#1	4.139535	2.809072	.0249534	.0008775	18.01466	4.966366	.0200317
#2	4.499795	2.807600	.0227968	.0005691	17.96983	4.974291	.0179730
#3	4.412341	2.827834	.0273055	.0019727	18.03557	4.985704	.0148921

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4940-02DLX2 Acquired: 12/15/2024 19:48:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHS8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1876706	.2183614	.0755767
Stddev	.0068910	.0023085	.0021316
%RSD	3.671863	1.057203	2.820493
#1	.1842492	.2158710	.0768139
#2	.1831599	.2187833	.0768009
#3	.1956028	.2204298	.0731153

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2194.217	26940.33	2620.990	1849.676	2611.020
Stddev	4.752	32.38	11.059	4.234	5.512
%RSD	.2165714	.1201802	.4219291	.2289249	.2110925
#1	2191.251	26943.41	2626.704	1851.769	2606.765
#2	2199.698	26906.52	2628.023	1844.803	2617.246
#3	2191.703	26971.05	2608.243	1852.457	2609.049

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4940-19DLX2 Acquired: 12/15/2024 19:52:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0183615	.0321050	.4786630	-.043290	-.007565	20.69058	.2354646
Stddev	.0007987	.0025502	.0030985	.004667	.005460	.07215	.0010583
%RSD	4.349649	7.943348	.6473340	10.78053	72.16967	.3487025	.4494685
#1	.0179839	.0291731	.4759955	-.042174	-.013704	20.75819	.2343043
#2	.0178218	.0333325	.4779317	-.039281	-.003254	20.61462	.2363769
#3	.0192790	.0338093	.4820618	-.048413	-.005736	20.69895	.2357127

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020602	.0028336	565.4569	.0377477	.0633825	.0924691	57.34177
Stddev	.0001251	.0000869	2.7609	.0003701	.0000645	.0081278	.12841
%RSD	6.074296	3.068531	.4882628	.9805500	.1017563	8.789784	.2239296
#1	.0022043	.0028379	568.6409	.0377661	.0634563	.0862596	57.48439
#2	.0019966	.0029182	563.7252	.0381084	.0633543	.0894792	57.30556
#3	.0019796	.0027445	564.0046	.0373688	.0633368	.1016684	57.23536

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.073460	285.0491	.0569733	-.002729	.1666120	.0422983	.5781615
Stddev	.003549	.8599	.0005458	.001771	.5356661	.0119486	.0083920
%RSD	.0871220	.3016839	.9580628	64.89418	321.5051	28.24847	1.451501
#1	4.077554	285.9403	.0571318	-.002610	-.448302	.0560879	.5708292
#2	4.071571	284.2243	.0574224	-.004557	.531939	.0350094	.5873144
#3	4.071255	284.9826	.0563658	-.001021	.416199	.0357976	.5763410

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.858869	2.172074	.0292819	-.000017	5.981291	5.486057	.0237293
Stddev	.084322	.006882	.0040930	.000219	.025796	.037943	.0015837
%RSD	2.185136	.3168377	13.97803	1293.013	.4312797	.6916207	6.674138
#1	3.827663	2.173716	.0246764	.000175	5.966643	5.528338	.0254227
#2	3.794599	2.164520	.0325040	.000029	5.966153	5.454973	.0234802
#3	3.954346	2.177987	.0306652	-.000255	6.011076	5.474860	.0222848

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4940-19DLX2 Acquired: 12/15/2024 19:52:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2946809	.2332942	.0750348
Stddev	.0053056	.0009026	.0011091
%RSD	1.800465	.3869036	1.478081
#1	.3007306	.2342690	.0762525
#2	.2908189	.2324874	.0740825
#3	.2924932	.2331263	.0747695

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2241.276	27300.57	2621.836	1887.088	2706.293
Stddev	.519	64.94	14.877	10.343	1.703
%RSD	.0231690	.2378638	.5674188	.5480689	.0629217
#1	2241.004	27374.60	2604.957	1889.289	2705.417
#2	2241.874	27253.24	2627.509	1875.822	2705.207
#3	2240.948	27273.86	2633.041	1896.153	2708.256

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4940-21DLX2 Acquired: 12/15/2024 19:56:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHY1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0217450**	**.0309324**	**.1727616**	**-.031678**	**.0000254**	**33.03633**	**.2957673**
Stddev	.0051710	.0006320	.0032551	.002851	.0031091	.07612	.0007421
%RSD	23.78015	2.043033	1.884140	9.000955	12258.04	.2304147	.2509101
#1	.0267156	.0314930	.1692636	-.033876	.0035528	33.07192	.2966234
#2	.0163946	.0310568	.1733196	-.028456	-.001160	32.94894	.2953729
#3	.0221248	.0302475	.1757016	-.032702	-.002317	33.08815	.2953057

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0025619**	**.0031250**	**454.3990**	**.0485710**	**.0768133**	**.1114568**	**81.11236**
Stddev	.0000500	.0000849	1.0743	.0009571	.0009157	.0019801	.22315
%RSD	1.950726	2.716557	.2364123	1.970483	1.192110	1.776541	.2751177
#1	.0025161	.0030481	453.9257	.0485807	.0758909	.1131897	80.97416
#2	.0025543	.0032161	453.6426	.0495232	.0777222	.1118820	80.99312
#3	.0026152	.0031109	455.6286	.0476091	.0768266	.1092986	81.36980

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.511071**	**107.0465**	**.0841495**	**-.005225**	**.5665264**	**.0703776**	**.4662213**
Stddev	.009339	.1207	.0013657	.000741	1.034860	.0092999	.0158683
%RSD	.1694509	.1127987	1.622929	14.18697	182.6675	13.21435	3.403607
#1	5.521115	107.1849	.0845765	-.004975	1.429947	.0685054	.4835673
#2	5.502651	106.9914	.0826213	-.006059	.850227	.0621561	.4524354
#3	5.509447	106.9631	.0852507	-.004641	-.580595	.0804712	.4626612

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.890393**	**3.604217**	**-.005649**	**-.000300**	**1.466694**	**4.917284**	**.0172150**
Stddev	.157742	.015301	.003089	.000355	.008414	.072242	.0007400
%RSD	4.054661	.4245244	54.69147	118.3199	.5736985	1.469145	4.298622
#1	4.021513	3.611592	-.002217	-.000587	1.464746	4.894206	.0180658
#2	3.934325	3.586625	-.008209	-.000410	1.459425	4.859400	.0167211
#3	3.715342	3.614433	-.006519	.000097	1.475912	4.998245	.0168582

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4940-21DLX2 Acquired: 12/15/2024 19:56:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHY1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5782960	.3326440	.0885081
Stddev	.0021741	.0012532	.0058107
%RSD	.3759443	.3767302	6.565113
#1	.5776942	.3339858	.0825425
#2	.5764861	.3324422	.0941503
#3	.5807075	.3315039	.0888315

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2376.807	28968.86	2770.799	2007.466	2805.059
Stddev	17.886	188.10	20.042	16.428	19.127
%RSD	.7525079	.6493187	.7233360	.8183316	.6818877
#1	2392.718	28815.02	2778.508	1994.341	2821.727
#2	2380.254	28912.99	2785.842	2002.168	2809.274
#3	2357.449	29178.57	2748.047	2025.889	2784.176

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4963-07DLX2 Acquired: 12/15/2024 20:00:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ00 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0513252	.0319575	.2336006	-.026738	.0110236	37.54250	.3980675
Stddev	.0021281	.0016810	.0023495	.000540	.0018282	.36826	.0024917
%RSD	4.146387	5.259969	1.005795	2.020628	16.58414	.9809239	.6259475
#1	.0519980	.0320672	.2318525	-.026114	.0127425	37.87814	.4005509
#2	.0530356	.0335809	.2362715	-.027061	.0112255	37.14857	.3955675
#3	.0489420	.0302244	.2326779	-.027039	.0091029	37.60079	.3980840

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032799	.0034061	560.0529	.0528774	.0821424	.3121882	138.9715
Stddev	.0000250	.0000477	5.0608	.0006080	.0008832	.0063591	.9407
%RSD	.7636647	1.401716	.9036326	1.149920	1.075171	2.036935	.6768917
#1	.0032984	.0034472	564.7516	.0532153	.0825362	.3051142	139.8405
#2	.0032900	.0033537	554.6946	.0521755	.0811308	.3174302	137.9726
#3	.0032514	.0034174	560.7125	.0532415	.0827601	.3140201	139.1014

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.526436	55.96790	.0989465	-.008092	-.337298	.0901591	.4285133
Stddev	.066144	.24594	.0007065	.000469	.313057	.0032625	.0048738
%RSD	.7757522	.4394350	.7140186	5.799401	92.81329	3.618553	1.137380
#1	8.583072	56.21917	.0997361	-.008632	-.598379	.0939233	.4325569
#2	8.453741	55.72765	.0987293	-.007861	-.423281	.0884066	.4298813
#3	8.542496	55.95689	.0983741	-.007783	.009766	.0881475	.4231017

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.108933	4.724418	-.030299	.0014457	.6918823	5.098780	.0177679
Stddev	.207118	.018599	.000391	.0001529	.0020509	.050309	.0015626
%RSD	5.040664	.3936732	1.289933	10.57354	.2964255	.9866818	8.794422
#1	4.059266	4.745873	-.030748	.0016150	.6922752	5.156818	.0159863
#2	3.931165	4.714504	-.030032	.0014044	.6937083	5.067584	.0184120
#3	4.336369	4.712876	-.030117	.0013177	.6896634	5.071940	.0189056

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4963-07DLX2 Acquired: 12/15/2024 20:00:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ00 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6501018	.3940108	.0963523
Stddev	.0024078	.0017256	.0104199
%RSD	.3703659	.4379515	10.81433
#1	.6524084	.3953888	.1079828
#2	.6502925	.3920754	.0878683
#3	.6476043	.3945681	.0932058

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2383.128	29097.63	2756.902	2009.145	2812.439
Stddev	5.203	159.60	31.519	13.660	5.610
%RSD	.2183409	.5484900	1.143270	.6799062	.1994679
#1	2382.058	29095.55	2724.262	2001.549	2808.857
#2	2378.543	29258.26	2787.166	2024.915	2809.556
#3	2388.784	28939.09	2759.278	2000.972	2818.904

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4964-04DLX2 Acquired: 12/15/2024 20:04:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0153767	.0399084	.5025751	-.045788	-.009279	12.93205	.2070223
Stddev	.0057509	.0027290	.0047310	.004860	.003483	.06911	.0009451
%RSD	37.40013	6.838095	.9413485	10.61328	37.53319	.5344055	.4565280
#1	.0218241	.0402165	.4972719	-.042665	-.005390	12.99181	.2073309
#2	.0107762	.0370385	.5063620	-.051387	-.010334	12.94798	.2077747
#3	.0135297	.0424703	.5040915	-.043312	-.012111	12.85637	.2059615

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014662	.0046565	768.5710	.0379569	.0599403	.1074529	55.94768
Stddev	.0001112	.0001605	3.7227	.0006818	.0011153	.0073552	.35255
%RSD	7.587035	3.447083	.4843600	1.796287	1.860757	6.845099	.6301509
#1	.0013389	.0045077	770.9711	.0371924	.0597182	.1146615	56.24695
#2	.0015446	.0046351	770.4593	.0381765	.0589528	.1077379	56.03704
#3	.0015150	.0048266	764.2827	.0385019	.0611501	.0999592	55.55904

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.246359	396.3340	.0643570	-.001039	-.021086	.0344326	.9339372
Stddev	.027439	2.0466	.0000748	.000969	.558943	.0025867	.0089279
%RSD	.5230123	.5163819	.1162924	93.25573	2650.830	7.512377	.9559468
#1	5.261074	396.5945	.0644173	-.001951	.293118	.0338521	.9263762
#2	5.263301	398.2379	.0643805	-.000022	-.666423	.0372602	.9437866
#3	5.214701	394.1696	.0642733	-.001145	.310048	.0321854	.9316489

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.965219	2.441782	.0392318	.0010395	7.752916	4.794348	.0361161
Stddev	.169465	.018094	.0009996	.0005795	.036400	.035139	.0010893
%RSD	5.715086	.7410255	2.547911	55.74892	.4694960	.7329188	3.016011
#1	2.831940	2.451240	.0401507	.0016638	7.729545	4.820701	.0361648
#2	2.907778	2.420919	.0393773	.0009360	7.734347	4.807890	.0371802
#3	3.155938	2.453187	.0381674	.0005188	7.794855	4.754453	.0350033

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4964-04DLX2 Acquired: 12/15/2024 20:04:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ02 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2484698	.2617744	.0706404
Stddev	.0027274	.0010744	.0051769
%RSD	1.097662	.4104336	7.328602
#1	.2491091	.2621181	.0646628
#2	.2508208	.2626349	.0736749
#3	.2454796	.2605702	.0735835

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2165.014	26679.25	2565.866	1822.837	2616.900
Stddev	7.256	136.27	19.917	10.378	12.815
%RSD	.3351698	.5107872	.7762282	.5693316	.4897134
#1	2170.958	26830.84	2546.129	1834.488	2626.486
#2	2167.156	26566.92	2565.511	1814.585	2621.869
#3	2156.927	26639.98	2585.958	1819.439	2602.344

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4964-05DLX2 Acquired: 12/15/2024 20:07:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0201356	.0427347	.4088491	-.045009	-.012754	10.20088
Stddev	.0023045	.0020541	.0013096	.005160	.002739	.06762
%RSD	11.44486	4.806545	.3203200	11.46472	21.47725	.6629127
#1	.0207919	.0433794	.4089963	-.050610	-.015907	10.26287
#2	.0175741	.0404356	.4074720	-.043968	-.011403	10.21101
#3	.0220407	.0443890	.4100789	-.040448	-.010953	10.12877

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1168002	.0013919	.0260024	F 940.4342	.0286269	.0622751
Stddev	.0005482	.0000638	.0000880	2.9563	.0014181	.0004833
%RSD	.4693111	4.587394	.3382764	.3143555	4.953659	.7760140
#1	.1171383	.0013186	.0260864	943.5013	.0271139	.0628206
#2	.1170945	.0014357	.0259109	940.1985	.0288411	.0621042
#3	.1161677	.0014213	.0260098	937.6028	.0299257	.0619006

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0619594	56.36200	5.866075	494.4810	.0570388	-.002101
Stddev	.0109863	.29242	.018190	2.0171	.0011384	.000174
%RSD	17.73149	.5188236	.3100926	.4079244	1.995829	8.290800
#1	.0613311	56.15441	5.857022	495.8476	.0578008	-.001985
#2	.0732463	56.69642	5.887015	495.4310	.0575853	-.002301
#3	.0513007	56.23516	5.854188	492.1643	.0557302	-.002017

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7973661	.0299612	4.667694	3.306847	1.531754	.0366315
Stddev	.5285865	.0006449	.084457	.150718	.004484	.0003522
%RSD	66.29157	2.152386	1.809397	4.557764	.2927435	.9614275
#1	1.391799	.0297764	4.572004	3.163785	1.526870	.0368772
#2	.620112	.0306784	4.731835	3.464203	1.532708	.0362280
#3	.380187	.0294290	4.699244	3.292554	1.535685	.0367893

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4964-05DLX2 Acquired: 12/15/2024 20:07:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ03 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000226	12.70461	4.546496	.0216548	.1232983	.2797154
Stddev	.000157	.04716	.019860	.0007999	.0032277	.0014817
%RSD	69.52944	.3711896	.4368288	3.693990	2.617809	.5297048
#1	-.000363	12.74044	4.526996	.0207478	.1268698	.2801544
#2	-.000055	12.65118	4.566698	.0219570	.1224353	.2809280
#3	-.000260	12.72220	4.545794	.0222596	.1205898	.2780639

Elem	Li6707
Units	ppm
Avg	.0865648
Stddev	.0027751
%RSD	3.205766
#1	.0858050
#2	.0842488
#3	.0896406

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2135.601	26473.98	2545.260	1810.960	2553.962
Stddev	6.107	478.31	16.333	37.834	8.648
%RSD	.2859635	1.806700	.6416973	2.089157	.3385952
#1	2128.563	26981.05	2541.482	1853.118	2544.266
#2	2139.506	26030.88	2531.147	1779.958	2560.878
#3	2138.734	26410.02	2563.151	1799.806	2556.742

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4964-06DLX2 Acquired: 12/15/2024 20:11:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0205878**	**.0387710**	**.3347556**	**-.058550**	**-.010668**	**8.894500**
Stddev	.0047189	.0004725	.0035648	.002628	.001943	.042868
%RSD	22.92088	1.218594	1.064890	4.488867	18.21662	.4819641
#1	.0201370	.0393151	.3356638	-.056616	-.010087	8.925971
#2	.0161105	.0384650	.3308246	-.057491	-.009082	8.845676
#3	.0255159	.0385327	.3377784	-.061542	-.012836	8.911853

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1074904**	**.0012873**	**.0034731**	F **1085.835**	**.0284433**	**.0632100**
Stddev	.0007889	.0001253	.0001106	5.162	.0003172	.0008770
%RSD	.7339056	9.730967	3.184252	.4753758	1.115346	1.387456
#1	.1067064	.0011611	.0033499	1091.544	.0286022	.0641924
#2	.1082841	.0012892	.0035638	1081.497	.0280780	.0629319
#3	.1074805	.0014116	.0035057	1084.464	.0286496	.0625058

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0369218**	**57.14517**	**6.027634**	**589.0823**	**.0462274**	**-.002671**
Stddev	.0067579	.36438	.029843	3.7937	.0004690	.001199
%RSD	18.30337	.6376385	.4951087	.6440030	1.014559	44.86913
#1	.0318045	57.56564	6.061142	593.3228	.0464282	-.002859
#2	.0343785	56.92148	6.003915	586.0101	.0465626	-.001390
#3	.0445823	56.94841	6.017844	587.9141	.0456914	-.003765

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.110105**	**.0299801**	**.5754488**	**4.003403**	**1.062142**	**.0423650**
Stddev	.322805	.0122408	.0088201	.171481	.003459	.0022275
%RSD	293.1808	40.82979	1.532733	4.283391	.3256870	5.257923
#1	-.080653	.0425101	.5854656	3.807408	1.060632	.0398757
#2	-.446627	.0293798	.5720347	4.125799	1.059695	.0441703
#3	.196966	.0180505	.5688461	4.077004	1.066100	.0430489

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4964-06DLX2 Acquired: 12/15/2024 20:11:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ04 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000281	14.34477	4.498980	.0165135	.0775316	.3352562
Stddev	.000121	.00947	.057632	.0017892	.0011525	.0017964
%RSD	42.92005	.0659859	1.280998	10.83465	1.486476	.5358287
#1	-.000259	14.33497	4.539268	.0144958	.0771506	.3371308
#2	-.000411	14.35386	4.432965	.0179068	.0788264	.3335498
#3	-.000173	14.34548	4.524706	.0171380	.0766179	.3350879

Elem	Li6707
Units	ppm
Avg	.0890011
Stddev	.0032169
%RSD	3.614413
#1	.0923206
#2	.0887851
#3	.0858977

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2129.077	26064.97	2569.044	1775.406	2534.256
Stddev	5.723	143.51	20.695	8.183	7.378
%RSD	.2688007	.5505808	.8055342	.4609342	.2911116
#1	2123.464	26078.96	2546.923	1779.676	2526.403
#2	2128.864	25914.98	2587.931	1765.971	2535.321
#3	2134.904	26200.97	2572.279	1780.571	2541.043

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4964-07DLX2 Acquired: 12/15/2024 20:15:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0173265	.0353147	.2859464	-.041514	-.012500	14.79286	.1540496
Stddev	.0021743	.0030730	.0007500	.003547	.001067	.03936	.0009491
%RSD	12.54874	8.701823	.2622881	8.543153	8.535161	.2660825	.6161038
#1	.0196004	.0377825	.2854064	-.037789	-.013394	14.74747	.1529611
#2	.0152680	.0318726	.2868027	-.041903	-.011319	14.81759	.1544833
#3	.0171110	.0362888	.2856300	-.044851	-.012787	14.81353	.1547044

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015253	.0034586	704.9436	.0270778	.0605807	.0511625	53.47552
Stddev	.0000405	.0002265	.6007	.0009052	.0012177	.0082588	.03234
%RSD	2.653509	6.549629	.0852059	3.342974	2.009964	16.14234	.0604732
#1	.0015208	.0033072	704.9659	.0280421	.0591857	.0442562	53.51012
#2	.0014873	.0037190	704.3322	.0262464	.0614306	.0489204	53.44607
#3	.0015679	.0033496	705.5328	.0269448	.0611258	.0603108	53.47036

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.951565	372.8150	.0472412	-.002620	.4194837	.0287027	.6811752
Stddev	.008880	.7483	.0008422	.000170	.0951202	.0024182	.0035589
%RSD	.1793436	.2007104	1.782822	6.498728	22.67555	8.425050	.5224663
#1	4.941405	372.0391	.0463273	-.002513	.3820003	.0262434	.6771677
#2	4.957849	373.5322	.0479862	-.002531	.3488157	.0287869	.6823907
#3	4.955440	372.8738	.0474099	-.002817	.5276352	.0310776	.6839670

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.065751	1.503983	.0207189	-.000522	8.069266	5.005588	.0146236
Stddev	.168981	.004775	.0032378	.000361	.019024	.045777	.0008193
%RSD	5.511880	.3175067	15.62742	69.23947	.2357641	.9145188	5.602607
#1	2.870842	1.507387	.0173028	-.000522	8.047757	5.012041	.0145365
#2	3.171099	1.506039	.0237428	-.000884	8.083887	4.956927	.0154830
#3	3.155312	1.498525	.0211110	-.000161	8.076154	5.047797	.0138513

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4964-07DLX2 Acquired: 12/15/2024 20:15:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ05 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2507548	.2172195	.0711650
Stddev	.0053131	.0006948	.0020276
%RSD	2.118827	.3198657	2.849153
#1	.2446895	.2164620	.0721186
#2	.2545858	.2178271	.0725401
#3	.2529891	.2173695	.0688365

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2213.083	27007.35	2620.922	1857.803	2660.177
Stddev	4.859	118.39	18.952	2.250	5.338
%RSD	.2195778	.4383496	.7230891	.1211206	.2006588
#1	2210.238	26924.37	2606.130	1856.352	2663.392
#2	2218.693	26954.75	2642.284	1860.395	2663.125
#3	2210.316	27142.92	2614.353	1856.662	2654.015

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4981-09DLX2 Acquired: 12/15/2024 20:19:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJA6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0652130	.0352257	.3741820	-.043309	-.001759	30.54758	.3148764
Stddev	.0057138	.0021172	.0028204	.004236	.001117	.54162	.0053549
%RSD	8.761721	6.010425	.7537397	9.781526	63.45954	1.773043	1.700626
#1	.0614474	.0343417	.3717651	-.045357	-.002622	30.62658	.3168116
#2	.0717875	.0336937	.3735000	-.046132	-.002158	31.04537	.3189946
#3	.0624041	.0376416	.3772808	-.038438	-.000498	29.97080	.3088229

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026857	.0066398	682.5472	.0556928	.0726062	.0738480	82.39757
Stddev	.0001283	.0000368	12.0187	.0010317	.0006978	.0057742	1.70547
%RSD	4.775220	.5545557	1.760866	1.852512	.9611091	7.818988	2.069802
#1	.0028226	.0066311	685.7775	.0545403	.0718091	.0678906	82.82242
#2	.0026661	.0066082	692.6207	.0565303	.0729029	.0742338	83.85045
#3	.0025683	.0066802	669.2434	.0560078	.0731067	.0794196	80.51984

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.770830	346.7079	.0952645	-.005054	-.351133	.0708748	1.168135
Stddev	.090826	6.6706	.0010262	.000737	.417358	.0084611	.013460
%RSD	1.903769	1.923969	1.077187	14.59088	118.8602	11.93812	1.152289
#1	4.797869	348.2323	.0942338	-.005163	.003483	.0806305	1.152756
#2	4.845065	352.4843	.0962861	-.004268	-.811060	.0655379	1.173881
#3	4.669555	339.4071	.0952737	-.005731	-.245824	.0664561	1.177769

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.377839	2.695910	.0115147	.0017552	7.906816	5.609015	.0190400
Stddev	.299506	.010577	.0018682	.0000811	.011006	.104597	.0010431
%RSD	5.569254	.3923470	16.22427	4.623284	.1391913	1.864799	5.478432
#1	5.298416	2.683933	.0129691	.0016904	7.899139	5.642204	.0202344
#2	5.709052	2.703969	.0121671	.0018462	7.919425	5.692990	.0185777
#3	5.126051	2.699828	.0094077	.0017289	7.901884	5.491850	.0183080

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4981-09DLX2 Acquired: 12/15/2024 20:19:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJA6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4274493	.2425797	.0952473
Stddev	.0116752	.0046094	.0074023
%RSD	2.731374	1.900154	7.771705
#1	.4320292	.2442548	.0914200
#2	.4361402	.2461173	.1037798
#3	.4141785	.2373670	.0905422

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2252.007	27701.82	2698.087	1908.511	2674.650
Stddev	6.889	138.80	54.940	8.222	8.650
%RSD	.3058856	.5010615	2.036266	.4308050	.3234078
#1	2259.900	27823.24	2682.387	1916.459	2684.385
#2	2247.205	27731.71	2652.707	1909.034	2667.848
#3	2248.916	27550.50	2759.169	1900.040	2671.717

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4981-10DLX2 Acquired: 12/15/2024 20:23:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJA7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0402329	.0293406	.2404410	-.037326	.0009096	41.47406	.5123836
Stddev	.0031752	.0017312	.0044286	.002121	.0043218	.07362	.0003570
%RSD	7.892062	5.900498	1.841856	5.681184	475.1181	.1774991	.0696692
#1	.0424889	.0298891	.2409226	-.036093	-.001013	41.42504	.5127958
#2	.0416079	.0307311	.2357913	-.039775	.005859	41.55871	.5121785
#3	.0366020	.0274015	.2446090	-.036111	-.002117	41.43843	.5121765

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034850	.0054322	622.6668	.0621242	.0768725	.0926174	97.67120
Stddev	.0000974	.0000306	.6488	.0005291	.0005813	.0025316	.16623
%RSD	2.795873	.5637563	.1042035	.8516952	.7561642	2.733435	.1701919
#1	.0034589	.0054413	622.5472	.0624792	.0771108	.0923862	97.49678
#2	.0034033	.0054573	623.3671	.0623772	.0772967	.0902093	97.82781
#3	.0035928	.0053981	622.0861	.0615161	.0762099	.0952568	97.68902

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.302581	272.3041	.1008334	-.006471	-.227842	.0796767	1.087856
Stddev	.012178	1.0750	.0007822	.000434	1.212310	.0104126	.008729
%RSD	.2830363	.3947924	.7757451	6.711527	532.0837	13.06853	.8023764
#1	4.291081	271.3899	.1007830	-.006721	.793434	.0814012	1.089570
#2	4.315339	273.4885	.1016397	-.006723	.090640	.0891194	1.095600
#3	4.301324	272.0340	.1000777	-.005970	-1.56760	.0685096	1.078397

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.413765	2.219174	-.006323	.0015664	5.074706	5.097403	.0146130
Stddev	.203424	.004159	.002861	.0003546	.011694	.038286	.0014700
%RSD	3.757537	.1874186	45.25039	22.63967	.2304314	.7510934	10.05927
#1	5.266171	2.220702	-.003201	.0016549	5.072212	5.053221	.0162110
#2	5.645814	2.214467	-.006946	.0011759	5.064461	5.120823	.0133185
#3	5.329312	2.222354	-.008821	.0018683	5.087446	5.118166	.0143094

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4981-10DLX2 Acquired: 12/15/2024 20:23:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJA7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4706261	.3407026	.1117865
Stddev	.0016936	.0017041	.0027682
%RSD	.3598507	.5001615	2.476295
#1	.4725796	.3396964	.1087887
#2	.4695705	.3426701	.1123249
#3	.4697284	.3397412	.1142459

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2260.485	27591.55	2660.617	1906.454	2698.665
Stddev	3.688	48.83	13.924	8.395	3.840
%RSD	.1631396	.1769597	.5233196	.4403205	.1422784
#1	2263.795	27535.70	2676.690	1896.988	2700.346
#2	2261.150	27626.11	2652.258	1909.377	2694.271
#3	2256.510	27612.85	2652.903	1912.996	2701.376

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4981-12DLX2 Acquired: 12/15/2024 20:27:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJA9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0360381	.0330728	.1895551	-.042117	.0011928	37.48580	.4889714
Stddev	.0052278	.0058902	.0020915	.002817	.0036072	.11519	.0025331
%RSD	14.50635	17.80968	1.103386	6.687539	302.4237	.3072789	.5180480
#1	.0382512	.0394664	.1875413	-.044195	.0040740	37.54463	.4911296
#2	.0300678	.0318847	.1917165	-.043244	-.002853	37.55970	.4896019
#3	.0397955	.0278672	.1894073	-.038911	.002357	37.35308	.4861825

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033753	.0091254	758.9876	.0579125	.0792806	.0923056	99.19681
Stddev	.0002387	.0001040	2.3704	.0003789	.0003737	.0030895	.32286
%RSD	7.072512	1.139745	.3123046	.6542854	.4713751	3.347068	.3254704
#1	.0031775	.0090556	760.1132	.0582743	.0793988	.0891619	99.53163
#2	.0036404	.0090758	760.5854	.0579447	.0788621	.0953380	99.17138
#3	.0033079	.0092450	756.2641	.0575185	.0795810	.0924170	98.88742

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.218603	334.2941	.0982018	-.006181	-.380732	.0770918	1.712850
Stddev	.017827	.9425	.0008891	.001043	.363565	.0085281	.015481
%RSD	.4225876	.2819430	.9053994	16.87435	95.49111	11.06231	.9038068
#1	4.232896	335.0812	.0991070	-.005893	-.293694	.0704657	1.721071
#2	4.224285	334.5515	.0981686	-.007338	-.068585	.0740960	1.722486
#3	4.198627	333.2496	.0973297	-.005313	-.779917	.0867136	1.694993

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.353650	1.676382	-.000431	.0012546	11.27071	5.648792	.0160056
Stddev	.166675	.010088	.002222	.0000277	.01800	.032898	.0023695
%RSD	3.828404	.6017739	515.1154	2.205593	.1597363	.5823931	14.80434
#1	4.544906	1.684051	.001648	.0012656	11.29136	5.611039	.0157615
#2	4.276642	1.664954	-.002772	.0012231	11.26244	5.671320	.0137676
#3	4.239403	1.680140	-.000170	.0012751	11.25832	5.664017	.0184877

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4981-12DLX2 Acquired: 12/15/2024 20:27:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJA9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3777257	.4373447	.1102490
Stddev	.0016438	.0010764	.0045524
%RSD	.4351734	.2461160	4.129215
#1	.3758841	.4384995	.1144169
#2	.3782487	.4371653	.1053909
#3	.3790443	.4363693	.1109392

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2227.992	27286.48	2659.120	1884.919	2651.005
Stddev	1.838	88.79	6.781	10.751	4.649
%RSD	.0825017	.3254074	.2550207	.5703548	.1753829
#1	2227.048	27211.36	2660.246	1881.133	2648.871
#2	2230.110	27263.61	2651.846	1876.573	2656.338
#3	2226.818	27384.47	2665.267	1897.050	2647.805

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4981-16DLX2 Acquired: 12/15/2024 20:30:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJC7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0500587**	**.0299737**	**.4897726**	**-.037774**	**-.000181**	**36.06926**	**.4325231**
Stddev	.0025820	.0022035	.0017677	.003198	.003361	1.58305	.0196101
%RSD	5.158010	7.351631	.3609189	8.466471	1854.039	4.388923	4.533878
#1	.0505564	.0306951	.4883539	-.040676	-.002020	35.34319	.4246749
#2	.0472641	.0317261	.4892110	-.034345	-.002222	37.88511	.4548417
#3	.0523558	.0274998	.4917528	-.038301	.003698	34.97948	.4180527

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0034703**	**.0023003**	**557.9262**	**.0532856**	**.0860646**	**.1838533**	**97.31129**
Stddev	.0001795	.0001162	24.0923	.0006990	.0008447	.0100556	4.37631
%RSD	5.172568	5.051664	4.318188	1.311766	.9814335	5.469347	4.497223
#1	.0032715	.0024301	546.8866	.0538553	.0870387	.1760339	95.48975
#2	.0035187	.0022650	585.5602	.0525056	.0855349	.1951966	102.3042
#3	.0036206	.0022059	541.3320	.0534959	.0856202	.1803296	94.1400

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.542770**	**22.30567**	**.0867847**	**-.004374**	**-.274941**	**.0844405**	**.3130122**
Stddev	.301159	1.00311	.0006385	.000249	.565031	.0203697	.0059544
%RSD	4.602933	4.497128	.7357826	5.701757	205.5104	24.12309	1.902299
#1	6.419340	21.81364	.0861125	-.004328	.370510	.0827880	.3066659
#2	6.886036	23.45980	.0868584	-.004150	-.515167	.1055861	.3138944
#3	6.322935	21.64358	.0873832	-.004642	-.680164	.0649475	.3184763

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.401698**	**2.960634**	**-.002203**	**.0010871**	**.7139799**	**4.804461**	**.0244111**
Stddev	.466553	.013200	.001753	.0001295	.0065680	.193440	.0011220
%RSD	8.637160	.4458389	79.58381	11.90846	.9199204	4.026254	4.596386
#1	5.059651	2.975113	-.001415	.0009459	.7146096	4.703623	.0256475
#2	5.933172	2.957518	-.000982	.0012002	.7071197	5.027485	.0234575
#3	5.212270	2.949272	-.004211	.0011153	.7202104	4.682274	.0241283

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4981-16DLX2 Acquired: 12/15/2024 20:30:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJC7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4275359	.2668754	.0917443
Stddev	.0192747	.0121729	.0021559
%RSD	4.508330	4.561273	2.349914
#1	.4177347	.2618321	.0914013
#2	.4497416	.2807595	.0940512
#3	.4151314	.2580347	.0897805

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2378.235	28964.81	2699.822	1997.578	2862.869
Stddev	8.197	87.54	103.364	4.035	2.875
%RSD	.3446843	.3022133	3.828532	.2019787	.1004352
#1	2380.349	28865.75	2739.394	1997.357	2863.057
#2	2385.169	28996.93	2582.519	1993.659	2865.645
#3	2369.188	29031.75	2777.553	2001.719	2859.903

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4981-17DLX2 Acquired: 12/15/2024 20:34:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJC8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0482714	.0373102	.5305616	-.036826	.0012531	23.52776	.3520360
Stddev	.0031071	.0021654	.0025793	.004429	.0026580	.04894	.0019498
%RSD	6.436647	5.803653	.4861423	12.02729	212.1228	.2080023	.5538658
#1	.0458086	.0390052	.5276407	-.032160	.0041517	23.53955	.3540527
#2	.0517622	.0380545	.5315180	-.037347	-.001070	23.56972	.3518945
#3	.0472434	.0348709	.5325261	-.040972	.000678	23.47400	.3501608

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022993	.0021072	687.4299	.0426531	.0762980	.2277787	85.09538
Stddev	.0001393	.0000677	2.3012	.0007817	.0009162	.0086973	.56989
%RSD	6.058991	3.214777	.3347550	1.832726	1.200833	3.818299	.6697113
#1	.0022351	.0021711	689.6419	.0429244	.0771525	.2362056	85.43764
#2	.0022038	.0020362	687.5990	.0432630	.0764111	.2188342	85.41100
#3	.0024592	.0021143	685.0488	.0417718	.0753305	.2282962	84.43751

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.472475	14.09182	.0655631	-.005056	.1741932	.0641134	.3000135
Stddev	.029216	.10619	.0008857	.001005	.6638314	.0078544	.0028114
%RSD	.3084332	.7535603	1.350919	19.87759	381.0892	12.25074	.9370976
#1	9.490375	14.00735	.0665536	-.004824	-.475153	.0651835	.2984039
#2	9.488289	14.21103	.0648473	-.004186	.146113	.0557788	.2983768
#3	9.438760	14.05708	.0652884	-.006156	.851619	.0713778	.3032598

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.748194	2.956434	-.010042	.0018587	.5559010	4.844928	.0169948
Stddev	.023978	.017931	.001463	.0004707	.0033172	.035765	.0004623
%RSD	.8724828	.6064989	14.56457	25.32236	.5967293	.7381885	2.719980
#1	2.772586	2.957334	-.008644	.0013165	.5549171	4.867713	.0165501
#2	2.747342	2.938070	-.011562	.0021618	.5531871	4.863365	.0174728
#3	2.724654	2.973897	-.009920	.0020978	.5595989	4.803707	.0169616

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4981-17DLX2 Acquired: 12/15/2024 20:34:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJC8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3939249	.3525819	.0721427
Stddev	.0038513	.0006107	.0040180
%RSD	.9776744	.1732111	5.569579
#1	.3971412	.3526741	.0755650
#2	.3896570	.3531413	.0677185
#3	.3949765	.3519303	.0731445

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2349.326	28649.13	2710.423	1976.455	2812.804
Stddev	12.633	35.20	15.813	8.815	15.238
%RSD	.5377147	.1228640	.5834175	.4459930	.5417363
#1	2337.437	28637.11	2695.588	1970.607	2803.998
#2	2362.590	28621.52	2708.621	1986.594	2830.399
#3	2347.952	28688.77	2727.060	1972.164	2804.014

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4981-21DLX2 Acquired: 12/15/2024 20:38:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJD0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0431154**	**.0339176**	**.5292801**	**-.039204**	**-.004658**	**30.56218**	**.3365873**
Stddev	.0035779	.0031621	.0023616	.005103	.002983	.16627	.0010498
%RSD	8.298450	9.323014	.4461972	13.01551	64.05214	.5440493	.3119068
#1	.0466375	.0375473	.5269739	-.033318	-.005660	30.70762	.3377643
#2	.0394842	.0324469	.5291727	-.041930	-.007011	30.59800	.3362502
#3	.0432246	.0317587	.5316935	-.042365	-.001302	30.38091	.3357474

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0025413**	**.0022334**	**577.8883**	**.0479572**	**.0796739**	**.2212752**	**82.09128**
Stddev	.0000216	.0001170	2.6915	.0011637	.0006594	.0039553	.39308
%RSD	.8504023	5.239375	.4657502	2.426472	.8275998	1.787497	.4788367
#1	.0025302	.0022405	580.9662	.0478724	.0793476	.2167110	82.48935
#2	.0025662	.0023467	576.7222	.0468383	.0792413	.2236991	82.08111
#3	.0025275	.0021130	575.9764	.0491610	.0804328	.2234155	81.70338

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.230869**	**17.46062**	**.0781915**	**-.005213**	**.0597202**	**.0787750**	**.4114846**
Stddev	.026602	.11208	.0002750	.001064	.0829389	.0111292	.0098640
%RSD	.4269408	.6419205	.3516729	20.40816	138.8791	14.12778	2.397180
#1	6.261172	17.44687	.0779148	-.004029	.1522484	.0900690	.4226589
#2	6.220070	17.57894	.0784647	-.005520	-.007939	.0784377	.4039868
#3	6.211364	17.35604	.0781951	-.006089	.034851	.0678183	.4078082

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.188640**	**3.679207**	**-.010271**	**.0006016**	**.6521161**	**4.979529**	**.0174169**
Stddev	.131239	.012684	.001703	.0007054	.0019124	.034229	.0007829
%RSD	4.115829	.3447402	16.58240	117.2518	.2932632	.6873849	4.495077
#1	3.045680	3.666514	-.012146	.0007261	.6521727	4.940033	.0166110
#2	3.303657	3.679226	-.009845	-.000158	.6501760	5.000553	.0181746
#3	3.216584	3.691882	-.008821	.001236	.6539995	4.998001	.0174651

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4981-21DLX2 Acquired: 12/15/2024 20:38:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJD0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5001493	.2577250	.0766935
Stddev	.0029152	.0010363	.0041478
%RSD	.5828674	.4020821	5.408299
#1	.4971410	.2588087	.0813463
#2	.5029615	.2576226	.0733832
#3	.5003454	.2567438	.0753510

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2349.332	28578.67	2719.999	1974.588	2846.073
Stddev	7.439	129.69	6.117	10.226	8.127
%RSD	.3166458	.4538160	.2248823	.5178641	.2855459
#1	2343.289	28540.00	2727.055	1968.837	2842.357
#2	2347.067	28723.31	2716.182	1986.394	2840.468
#3	2357.641	28472.72	2716.762	1968.532	2855.393

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4983-01DLX2 Acquired: 12/15/2024 20:42:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ97 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0206098	.0353442	.1350834	-.044417	-.008502	17.24112	.1575209
Stddev	.0002704	.0027011	.0018525	.002041	.001162	.08499	.0002949
%RSD	1.312119	7.642145	1.371414	4.595683	13.66191	.4929674	.1871972
#1	.0202984	.0361715	.1367870	-.046338	-.009840	17.29887	.1578429
#2	.0207858	.0375349	.1331113	-.042274	-.007760	17.14353	.1572640
#3	.0207453	.0323263	.1353520	-.044638	-.007906	17.28096	.1574559

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015236	.0018262	540.8279	.0299884	.0670316	.0851532	54.10683
Stddev	.0001755	.0001702	1.7628	.0006198	.0003128	.0119511	.12691
%RSD	11.51659	9.321015	.3259389	2.066923	.4666125	14.03487	.2345502
#1	.0017127	.0016434	541.9321	.0292822	.0671732	.0846503	54.06943
#2	.0014919	.0018551	538.7949	.0304425	.0672485	.0734615	54.00282
#3	.0013661	.0019802	541.7566	.0302405	.0666730	.0973479	54.24823

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.656284	155.5086	.0488716	-.003043	1.110411	.0364478	.2022888
Stddev	.029517	.7669	.0009641	.001395	.534403	.0069116	.0093136
%RSD	.4434402	.4931650	1.972682	45.84833	48.12663	18.96316	4.604120
#1	6.640545	155.3957	.0486462	-.004445	.666617	.0388989	.1915711
#2	6.637974	154.8045	.0480402	-.001655	.960997	.0417997	.2068782
#3	6.690335	156.3258	.0499284	-.003028	1.703620	.0286446	.2084170

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.546456	2.567624	.0070074	-.000508	3.348028	5.090214	.0103993
Stddev	.111769	.008094	.0009552	.000118	.024422	.015836	.0011154
%RSD	4.389190	.3152344	13.63128	23.27540	.7294479	.3111094	10.72607
#1	2.435548	2.558644	.0061398	-.000496	3.330989	5.104643	.0095363
#2	2.659066	2.569868	.0068514	-.000632	3.337088	5.073271	.0100028
#3	2.544752	2.574359	.0080310	-.000396	3.376008	5.092728	.0116589

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4983-01DLX2 Acquired: 12/15/2024 20:42:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ97 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2338738	.3076446	.0599515
Stddev	.0042738	.0015231	.0002267
%RSD	1.827398	.4950893	.3781299
#1	.2377505	.3076425	.0598227
#2	.2292909	.3061225	.0602133
#3	.2345801	.3091687	.0598186

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2313.695	28184.98	2712.317	1946.572	2754.925
Stddev	13.570	130.99	7.617	12.180	14.271
%RSD	.5865263	.4647533	.2808455	.6257231	.5180356
#1	2318.488	28320.90	2704.706	1960.457	2765.137
#2	2324.219	28059.55	2719.941	1941.574	2761.020
#3	2298.379	28174.49	2712.303	1937.687	2738.618

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: CCV031 Acquired: 12/15/2024 20:46:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV031 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.796555**	**4.774283**	**23.65928**	**4.578429**	**4.618039**	**387.1480**	**9.698918**
Stddev	.029917	.007653	.01437	.018145	.010180	2.8607	.086273
%RSD	.6237156	.1602891	.0607517	.3963175	.2204391	.7389076	.8895164
#1	4.770308	4.766443	23.64268	4.557523	4.606292	383.9890	9.603629
#2	4.790229	4.774672	23.66743	4.590082	4.623546	389.5636	9.771725
#3	4.829129	4.781734	23.66772	4.587682	4.624280	387.8914	9.721400

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4764193**	**2.373121**	**394.7297**	**14.63634**	**2.359461**	**14.46023**	**395.4205**
Stddev	.0055689	.002378	2.7959	.12033	.002603	.14472	3.3321
%RSD	1.168901	.1001988	.7082975	.8221266	.1103280	1.000810	.8426695
#1	.4725703	2.370396	391.6633	14.74416	2.360624	14.30111	391.7682
#2	.4828049	2.374195	397.1375	14.65832	2.361279	14.58400	398.2947
#3	.4738828	2.374774	395.3882	14.50653	2.356479	14.49557	396.1986

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.28476**	**385.2191**	**2.383000**	**1.192693**	**390.8594**	**2.381523**	**14.40428**
Stddev	.11088	3.2978	.006700	.007985	5.0015	.035427	.07062
%RSD	.7762411	.8560876	.2811501	.6695052	1.279607	1.487584	.4902645
#1	14.16542	381.5794	2.379139	1.198433	385.1272	2.340616	14.47322
#2	14.38461	388.0085	2.390736	1.196073	394.3345	2.402200	14.33210
#3	14.30424	386.0694	2.379124	1.183574	393.1166	2.401754	14.40751

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**144.8891**	**4.755438**	**4.612382**	**4.587372**	**4.779230**	**4.786604**	**4.795712**
Stddev	1.0374	.015104	.035836	.010087	.007610	.047502	.006947
%RSD	.7160099	.3176166	.7769585	.2198827	.1592295	.9923936	.1448499
#1	143.7695	4.751386	4.583432	4.577738	4.773688	4.746832	4.793993
#2	145.8179	4.772154	4.652463	4.597857	4.787906	4.839202	4.803356
#3	145.0799	4.742772	4.601252	4.586522	4.776095	4.773777	4.789785

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: CCV031 Acquired: 12/15/2024 20:46:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV031 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	**4.820996**	**4.553172**	**4.973007**
Stddev	.037825	.038016	.043323
%RSD	.7845912	.8349383	.8711693
#1	4.778907	4.511608	4.925844
#2	4.852146	4.586184	5.011033
#3	4.831934	4.561723	4.982144

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1945.445**	**25569.53**	**2529.170**	**1702.264**	**2572.430**
Stddev	5.584	132.57	22.143	8.459	6.636
%RSD	.2870173	.5184694	.8755017	.4969037	.2579854
#1	1944.931	25424.30	2547.983	1693.454	2568.635
#2	1940.136	25600.24	2504.768	1703.019	2568.562
#3	1951.268	25684.05	2534.759	1710.320	2580.093

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: CCB031 Acquired: 12/15/2024 20:50:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB031 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000565**	**.0023944**	**-.000829**	**-.002702**	**-.001441**	**-.006655**	**.0015460**
Stddev	.002728	.0019282	.001312	.001491	.003150	.033072	.0009934
%RSD	483.1579	80.53030	158.2804	55.17516	218.6174	496.9391	64.25451
#1	.001600	.0044800	.000264	-.002453	.000873	.021884	.0024513
#2	.000335	.0020266	-.000467	-.004302	-.005028	-.042900	.0017033
#3	-.003628	.0006766	-.002285	-.001352	-.000168	.001051	.0004834

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000224**	**.0000038**	**-.026612**	**-.000390**	**-.000017**	**-.005273**	**-.001321**
Stddev	.0001412	.0001139	.031489	.000194	.000118	.007463	.017148
%RSD	630.4026	3037.889	118.3248	49.59293	678.3342	141.5306	1298.041
#1	.0000271	.0000416	-.037044	-.000539	-.000154	.002687	-.016269
#2	-.000121	-.000124	.008769	-.000460	.000052	-.006393	.017398
#3	.000161	.000094	-.051562	-.000172	.000050	-.012114	-.005092

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0020680**	**-.014560**	**-.000244**	**-.000053**	**-.416739**	**-.001350**	**-.008723**
Stddev	.0004700	.098300	.000385	.000705	.811550	.004818	.003740
%RSD	22.72888	675.1223	157.5020	1327.799	194.7381	356.8639	42.87763
#1	.0024221	-.110770	-.000072	.000429	-.138023	.000809	-.004814
#2	.0015347	.085705	.000024	-.000862	.218727	.002010	-.009087
#3	.0022471	-.018616	-.000686	.000274	-1.33092	-.006870	-.012268

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5316412**	**-.000037**	**.0081707**	**-.000027**	**-.006308**	**.0026128**	**-.000554**
Stddev	.2790192	.000691	.0014571	.000120	.001734	.0001624	.000743
%RSD	52.48262	1848.961	17.83396	448.1461	27.48945	6.214524	134.0989
#1	.5830234	-.000614	.0071921	.000111	-.008024	.0027865	-.000813
#2	.7813980	-.000226	.0074746	-.000083	-.004556	.0025872	-.001132
#3	.2305020	.000728	.0098453	-.000108	-.006344	.0024648	.000284

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: CCB031 Acquired: 12/15/2024 20:50:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB031 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.001296	.0002333	-.000453
Stddev	.002491	.0002108	.005227
%RSD	192.2241	90.34176	1153.330
#1	-.003693	.0002643	.000097
#2	.001280	.0000088	.004477
#3	-.001475	.0004269	-.005934

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2331.339	28229.18	2569.856	1965.755	3260.002
Stddev	11.092	37.29	21.910	3.025	13.014
%RSD	.4757777	.1321048	.8525723	.1538971	.3992075
#1	2334.538	28216.40	2593.593	1962.403	3262.956
#2	2318.998	28271.19	2565.565	1968.281	3245.765
#3	2340.479	28199.97	2550.408	1966.582	3271.285

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4983-04DLX2 Acquired: 12/15/2024 20:54:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJE6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0312581**	**.0418118**	**.1798553**	**-.037916**	**-.003238**	**17.79329**
Stddev	.0017318	.0043657	.0008235	.004450	.001288	.06924
%RSD	5.540209	10.44124	.4578659	11.73746	39.78627	.3891182
#1	.0327144	.0428128	.1801562	-.032778	-.003570	17.87312
#2	.0317166	.0370326	.1789237	-.040396	-.001816	17.74958
#3	.0293432	.0455901	.1804861	-.040573	-.004328	17.75717

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3400505**	**.0015629**	**.0024069**	F **840.4763**	**.0270531**	**.0676666**
Stddev	.0015431	.0001873	.0000746	.4629	.0008623	.0008949
%RSD	.4537944	11.98206	3.099873	.0550736	3.187555	1.322557
#1	.3385716	.0015131	.0024886	840.9737	.0261516	.0681604
#2	.3416507	.0017700	.0023423	840.3970	.0271377	.0682058
#3	.3399290	.0014055	.0023900	840.0582	.0278701	.0666335

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1444604**	**77.95980**	**11.43519**	**65.74364**	**.0523550**	**-.003486**
Stddev	.0089338	.25262	.02578	.45434	.0001363	.000979
%RSD	6.184227	.3240409	.2254664	.6910717	.2603491	28.07877
#1	.1404549	78.06969	11.43855	66.26391	.0521997	-.002638
#2	.1382303	78.13886	11.45912	65.42511	.0524102	-.004557
#3	.1546959	77.67084	11.40789	65.54190	.0524550	-.003263

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.279917**	**.0441240**	**.1994517**	**2.438141**	**3.526831**	**-.002576**
Stddev	.630586	.0010208	.0019255	.122191	.017014	.000466
%RSD	225.2763	2.313488	.9653862	5.011633	.4824217	18.09375
#1	.051220	.0437801	.2015433	2.417736	3.522789	-.002099
#2	-1.00709	.0452724	.1977529	2.327437	3.512201	-.003030
#3	.11612	.0433197	.1990588	2.569249	3.545502	-.002601

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4983-04DLX2 Acquired: 12/15/2024 20:54:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJE6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048735	1.594908	6.486310	.0165203	.2977510	.3758968
Stddev	.0007552	.004958	.025900	.0019602	.0139727	.0004693
%RSD	15.49709	.3108682	.3993013	11.86561	4.692756	.1248495
#1	.0045984	1.589193	6.507688	.0183940	.2939339	.3761757
#2	.0057277	1.597468	6.457509	.0166832	.2860835	.3761598
#3	.0042943	1.598062	6.493732	.0144837	.3132356	.3753550

Elem	Li6707
Units	ppm
Avg	.0776711
Stddev	.0035806
%RSD	4.609923
#1	.0810402
#2	.0739111
#3	.0780620

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2324.027	28096.76	2735.498	1952.828	2740.978
Stddev	6.494	125.56	4.619	9.387	8.382
%RSD	.2794395	.4469009	.1688617	.4806985	.3058058
#1	2325.348	28207.29	2732.182	1960.461	2745.242
#2	2329.759	27960.23	2740.774	1942.346	2746.371
#3	2316.974	28122.78	2733.539	1955.676	2731.322

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4983-05DLX2 Acquired: 12/15/2024 20:57:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJB6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1460528	.0447168	.2246662	-.023257	.0082991	33.22216	.5106236
Stddev	.0034333	.0027028	.0022438	.001001	.0030887	.07500	.0016452
%RSD	2.350740	6.044302	.9987266	4.302530	37.21700	.2257576	.3222026
#1	.1495451	.0461679	.2231220	-.023883	.0048304	33.14693	.5088264
#2	.1459317	.0463841	.2272400	-.023785	.0107516	33.22263	.5120555
#3	.1426817	.0415983	.2236364	-.022103	.0093154	33.29693	.5109889

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039528	.0029806	510.0677	.0528397	.1263164	.5748891	130.4930
Stddev	.0000463	.0001154	1.0792	.0009125	.0005516	.0051568	.1125
%RSD	1.171723	3.872166	.2115767	1.726860	.4366414	.8970151	.0862187
#1	.0039377	.0028839	508.9837	.0530230	.1267399	.5785997	130.4487
#2	.0040048	.0029496	510.0774	.0518495	.1256927	.5690006	130.6209
#3	.0039160	.0031084	511.1421	.0536466	.1265165	.5770668	130.4094

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.95168	54.96190	.1204869	-.006549	-.041979	.0919281	.2885366
Stddev	.03123	.06831	.0005187	.001228	.609320	.0073684	.0029497
%RSD	.1957481	.1242770	.4304860	18.74869	1451.504	8.015381	1.022296
#1	15.91651	54.92335	.1199727	-.007137	-.516499	.0840562	.2912334
#2	15.96238	54.92157	.1210099	-.005137	.645164	.0986602	.2853865
#3	15.97615	55.04076	.1204781	-.007372	-.254600	.0930678	.2889898

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.268033	8.588836	-.005742	.0003410	2.031171	5.764875	.0205499
Stddev	.119381	.010255	.000873	.0004723	.005311	.036635	.0005224
%RSD	1.904608	.1193979	15.20623	138.4945	.2614576	.6354794	2.542029
#1	6.131868	8.587582	-.004782	.0008553	2.035350	5.723381	.0211152
#2	6.317511	8.579266	-.006490	.0002408	2.032967	5.778500	.0204496
#3	6.354721	8.599661	-.005955	-.000073	2.025195	5.792745	.0200850

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4983-05DLX2 Acquired: 12/15/2024 20:57:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJB6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2993138	.3440252	.0760489
Stddev	.0031768	.0008838	.0061189
%RSD	1.061356	.2568962	8.046028
#1	.2999996	.3430128	.0810514
#2	.3020917	.3444204	.0778689
#3	.2958502	.3446424	.0692265

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2432.806	29882.14	2845.025	2066.408	2828.074
Stddev	1.155	399.59	14.899	27.270	4.045
%RSD	.0474801	1.337222	.5236713	1.319692	.1430435
#1	2431.662	29701.15	2861.684	2048.261	2823.409
#2	2432.785	30340.20	2832.978	2097.768	2830.614
#3	2433.972	29605.06	2840.413	2053.194	2830.199

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4983-07DLX2 Acquired: 12/15/2024 21:01:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJF9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0286904	.0357888	.2283958	-.042807	-.003359	31.84540	.4283256
Stddev	.0014991	.0034690	.0025725	.004843	.002230	.03242	.0012157
%RSD	5.225177	9.692909	1.126326	11.31323	66.38881	.1017896	.2838161
#1	.0287159	.0368982	.2261463	-.039387	-.005640	31.88210	.4297025
#2	.0301766	.0385674	.2278404	-.040686	-.001184	31.82068	.4278736
#3	.0271786	.0319009	.2312006	-.048349	-.003253	31.83341	.4274007

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028795	.0032226	741.6617	.0545773	.0721517	.0734568	84.33893
Stddev	.0001431	.0001311	2.0847	.0005919	.0007492	.0021906	.37402
%RSD	4.969021	4.068327	.2810801	1.084546	1.038317	2.982208	.4434675
#1	.0029958	.0031792	743.2454	.0548956	.0729816	.0750525	84.55375
#2	.0027197	.0033699	739.2999	.0549421	.0715253	.0709592	83.90706
#3	.0029230	.0031187	742.4399	.0538944	.0719483	.0743588	84.55598

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.525192	335.5861	.0884927	-.004619	-.408238	.0586644	.5797037
Stddev	.017012	.5314	.0012635	.001257	.433508	.0111131	.0102074
%RSD	.3759460	.1583448	1.427759	27.21704	106.1900	18.94346	1.760790
#1	4.533730	335.9617	.0896943	-.003239	-.891380	.0636470	.5912055
#2	4.505602	334.9781	.0871753	-.004918	-.053267	.0664142	.5761825
#3	4.536244	335.8184	.0886085	-.005700	-.280068	.0459319	.5717231

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.704699	2.441388	.0019019	.0017844	8.015205	6.116597	.0150588
Stddev	.299341	.006379	.0014521	.0003820	.018499	.050105	.0019116
%RSD	6.362589	.2612911	76.34801	21.40804	.2308008	.8191660	12.69445
#1	4.906069	2.437851	.0016816	.0020740	7.999765	6.173348	.0137587
#2	4.360719	2.448752	.0005726	.0013515	8.010140	6.097967	.0141639
#3	4.847309	2.437560	.0034515	.0019278	8.035709	6.078475	.0172537

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4983-07DLX2 Acquired: 12/15/2024 21:01:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJF9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3510031	.4384679	.1094353
Stddev	.0048343	.0016890	.0037556
%RSD	1.377292	.3852095	3.431795
#1	.3519568	.4401800	.1093210
#2	.3457630	.4368029	.1132467
#3	.3552895	.4384207	.1057382

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2208.037	26951.45	2631.631	1857.545	2644.645
Stddev	8.824	90.61	1.032	4.525	7.563
%RSD	.3996446	.3361843	.0391998	.2435815	.2859919
#1	2212.195	27025.51	2632.518	1854.317	2650.866
#2	2214.014	26850.42	2631.876	1862.717	2646.843
#3	2197.902	26978.43	2630.499	1855.602	2636.226

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4983-13DLX2 Acquired: 12/15/2024 21:05:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJG3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0158353	.0287695	.1695410	-.035690	.0060345	53.26398	.7558174
Stddev	.0053820	.0023871	.0015156	.006954	.0017770	.20222	.0052858
%RSD	33.98754	8.297479	.8939278	19.48409	29.44802	.3796546	.6993496
#1	.0106290	.0311458	.1678741	-.028947	.0042579	53.43617	.7596592
#2	.0154995	.0263716	.1708360	-.042837	.0078119	53.31448	.7580038
#3	.0213773	.0287911	.1699129	-.035286	.0060336	53.04130	.7497892

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045057	.0043041	633.1551	.0774970	.0897673	.1078775	111.7264
Stddev	.0001065	.0000801	2.2969	.0008984	.0005433	.0047538	.6256
%RSD	2.364137	1.861477	.3627652	1.159310	.6051763	4.406638	.5599021
#1	.0044579	.0043849	635.3595	.0764885	.0891900	.1071893	112.1560
#2	.0044315	.0042246	633.3300	.0782120	.0898432	.1035053	112.0144
#3	.0046278	.0043029	630.7758	.0777904	.0902686	.1129379	111.0087

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.757352	237.2700	.1271727	-.006473	.3373296	.0902082	.7241321
Stddev	.020868	1.0886	.0004372	.000848	.0859160	.0094410	.0156648
%RSD	.5553940	.4587973	.3437521	13.09629	25.46944	10.46580	2.163258
#1	3.773980	237.8682	.1276668	-.006556	.2979145	.0793093	.7341774
#2	3.764141	237.9283	.1268361	-.007276	.4358813	.0958657	.7321365
#3	3.733935	236.0135	.1270151	-.005587	.2781931	.0954495	.7060823

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.034430	1.922843	-.012418	.0028147	4.385270	5.962303	.0155390
Stddev	.117521	.002578	.001490	.0005223	.023872	.004005	.0018514
%RSD	3.872912	.1340492	11.99580	18.55795	.5443568	.0671690	11.91428
#1	3.071070	1.924921	-.012831	.0022619	4.379297	5.963159	.0175925
#2	3.129266	1.919959	-.010765	.0033000	4.364952	5.957940	.0139976
#3	2.902954	1.923650	-.013657	.0028820	4.411561	5.965811	.0150270

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4983-13DLX2 Acquired: 12/15/2024 21:05:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJG3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4487497	.7992943	.1409115
Stddev	.0040461	.0057455	.0070027
%RSD	.9016347	.7188191	4.969534
#1	.4441098	.8027520	.1480337
#2	.4515435	.8024688	.1406660
#3	.4505957	.7926620	.1340349

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2234.386	27162.08	2606.595	1862.251	2686.989
Stddev	1.475	40.57	5.970	2.999	4.192
%RSD	.0660321	.1493547	.2290398	.1610213	.1560106
#1	2235.896	27117.35	2599.701	1859.793	2691.761
#2	2232.947	27172.39	2610.022	1861.369	2683.901
#3	2234.314	27196.49	2610.061	1865.592	2685.305

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4983-14DLX2 Acquired: 12/15/2024 21:09:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJG4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0165026	.0333681	.2309090	-.042496	-.014137	11.11895	.0893738
Stddev	.0035862	.0023589	.0049900	.006559	.001999	.03889	.0003353
%RSD	21.73099	7.069411	2.161030	15.43317	14.13817	.3497765	.3751553
#1	.0136503	.0359628	.2261630	-.049934	-.013055	11.09938	.0897337
#2	.0153290	.0313531	.2304523	-.040012	-.012912	11.16374	.0893175
#3	.0205286	.0327883	.2361116	-.037543	-.016444	11.09373	.0890702

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015051	.0028063	694.7554	.0283370	.0592908	.0908601	46.27258
Stddev	.0001127	.0000668	.4066	.0008484	.0004601	.0029617	.08479
%RSD	7.485698	2.382226	.0585297	2.993944	.7760570	3.259595	.1832407
#1	.0015400	.0027363	695.2161	.0292925	.0595260	.0885282	46.35912
#2	.0015961	.0028695	694.6038	.0280465	.0595857	.0898597	46.26896
#3	.0013790	.0028130	694.4464	.0276720	.0587606	.0941924	46.18966

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.873302	373.2119	.0390425	-.001271	-.754711	.0274598	.5010485
Stddev	.003766	1.1853	.0004147	.000760	.297173	.0064908	.0110891
%RSD	.0972389	.3175883	1.062111	59.81583	39.37574	23.63759	2.213170
#1	3.870600	374.5312	.0391299	-.000395	-.452226	.0323438	.5124876
#2	3.877605	372.8679	.0394066	-.001764	-1.04627	.0299413	.5003116
#3	3.871703	372.2367	.0385911	-.001652	-.76564	.0200943	.4903462

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.518657	1.176546	.0488135	-.000839	11.81432	5.825940	.0264219
Stddev	.132883	.003580	.0022135	.000139	.01496	.032458	.0003291
%RSD	2.038497	.3042402	4.534533	16.58093	.1266139	.5571313	1.245396
#1	6.671917	1.174091	.0512479	-.000739	11.82176	5.789646	.0260626
#2	6.448454	1.174894	.0469219	-.000781	11.82409	5.852185	.0267087
#3	6.435600	1.180653	.0482706	-.000998	11.79710	5.835989	.0264943

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4983-14DLX2 Acquired: 12/15/2024 21:09:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJG4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1460466	.2720034	.0775653
Stddev	.0058411	.0003850	.0102302
%RSD	3.999505	.1415574	13.18917
#1	.1470235	.2723893	.0657615
#2	.1513377	.2716193	.0838669
#3	.1397786	.2720015	.0830675

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2178.902	26540.58	2559.420	1810.715	2631.371
Stddev	3.293	149.40	14.532	14.008	10.610
%RSD	.1511171	.5629179	.5677778	.7736287	.4032240
#1	2179.311	26403.77	2553.319	1801.306	2632.244
#2	2175.424	26517.97	2548.933	1804.024	2620.352
#3	2181.971	26700.00	2576.008	1826.814	2641.519

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4983-15DLX2 Acquired: 12/15/2024 21:13:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJG5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0226746	.0361656	.5159116	-.043440	-.004896	17.88414	.1480180
Stddev	.0019572	.0036163	.0061610	.005713	.002309	.08654	.0008382
%RSD	8.631794	9.999346	1.194202	13.15077	47.16247	.4839055	.5662815
#1	.0246213	.0400869	.5124849	-.036879	-.002230	17.81624	.1471104
#2	.0207070	.0354481	.5122257	-.047307	-.006210	17.85458	.1481805
#3	.0226954	.0329618	.5230242	-.046135	-.006249	17.98158	.1487630

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018702	.0056166	728.8890	.0406521	.0673359	.3606467	68.38745
Stddev	.0000857	.0001142	1.7510	.0012641	.0009815	.0030899	.25683
%RSD	4.584842	2.032796	.2402342	3.109555	1.457621	.8567787	.3755537
#1	.0019104	.0055360	728.3715	.0418517	.0662232	.3640252	68.22683
#2	.0017718	.0057473	727.4550	.0407725	.0680787	.3599508	68.25185
#3	.0019285	.0055667	730.8404	.0393321	.0677059	.3579640	68.68366

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.023015	388.5293	.0582751	-.003665	.1395211	.0353744	1.527219
Stddev	.007480	1.5458	.0005704	.000106	.6837082	.0089708	.024102
%RSD	.1489202	.3978555	.9787405	2.900865	490.0393	25.35948	1.578161
#1	5.016122	386.8271	.0587093	-.003598	-.622375	.0279257	1.509213
#2	5.021955	388.9152	.0576291	-.003610	.699614	.0453327	1.517844
#3	5.030969	389.8456	.0584868	-.003788	.341324	.0328647	1.554600

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.374364	1.841262	.0282792	-.000131	10.32301	5.847732	.0805251
Stddev	.161509	.011880	.0015930	.000215	.02621	.031045	.0017921
%RSD	3.005172	.6452000	5.633244	163.1625	.2538845	.5308884	2.225554
#1	5.256367	1.827722	.0274017	-.000152	10.29661	5.863127	.0790512
#2	5.308293	1.849934	.0273178	-.000335	10.32340	5.868071	.0800040
#3	5.558433	1.846132	.0301180	.000093	10.34902	5.811998	.0825200

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4983-15DLX2 Acquired: 12/15/2024 21:13:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJG5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2223362	.2565955	.0923611
Stddev	.0033187	.0009869	.0068516
%RSD	1.492649	.3845962	7.418281
#1	.2223749	.2556481	.0945905
#2	.2189982	.2565209	.0978204
#3	.2256353	.2576176	.0846725

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2208.415	27021.21	2611.432	1852.327	2631.550
Stddev	8.357	62.10	9.328	7.904	7.872
%RSD	.3784084	.2298041	.3571895	.4266829	.2991258
#1	2212.053	27071.75	2605.073	1856.377	2638.827
#2	2214.335	27039.99	2607.082	1857.385	2632.628
#3	2198.855	26951.89	2622.140	1843.220	2623.195

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4983-16DLX2 Acquired: 12/15/2024 21:17:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJG6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0297595	.0299896	.3410176	-.034228	-.001403	30.50275	.2301552
Stddev	.0022363	.0030669	.0033694	.003678	.001488	.06576	.0009762
%RSD	7.514601	10.22656	.9880301	10.74451	106.0593	.2155843	.4241438
#1	.0313337	.0318019	.3405754	-.030173	.000134	30.43418	.2298200
#2	.0271997	.0317182	.3445862	-.035163	-.002836	30.56528	.2312548
#3	.0307452	.0264485	.3378912	-.037348	-.001506	30.50879	.2293908

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026587	.0035780	473.5181	.0485182	.0765003	.2127033	80.64724
Stddev	.0000358	.0001513	.9873	.0011876	.0009623	.0036917	.41510
%RSD	1.346236	4.227336	.2085097	2.447639	1.257892	1.735620	.5147147
#1	.0026195	.0037233	472.6556	.0498350	.0769571	.2124473	80.41165
#2	.0026897	.0035894	474.5950	.0481909	.0771491	.2091462	81.12654
#3	.0026670	.0034214	473.3036	.0475286	.0753947	.2165163	80.40353

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.224005	240.2004	.0843688	-.005399	.2172202	.0687989	1.000923
Stddev	.017958	.6305	.0010232	.001379	.3567049	.0105293	.021065
%RSD	.3437567	.2624706	1.212773	25.54262	164.2135	15.30451	2.104529
#1	5.219440	239.9528	.0848258	-.005721	.6289788	.0594091	.981008
#2	5.243805	240.9170	.0850839	-.003887	.0024233	.0801826	1.022975
#3	5.208771	239.7313	.0831967	-.006588	.0202585	.0668051	.998786

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.305317	3.666599	.0034735	.0003910	5.896945	5.268965	.0510579
Stddev	.127112	.025357	.0026349	.0011128	.027572	.018794	.0004731
%RSD	2.952433	.6915737	75.85559	284.6291	.4675622	.3566964	.9265461
#1	4.259339	3.664378	.0054530	.0006807	5.893401	5.290308	.0513559
#2	4.207592	3.692994	.0004828	.0013303	5.926118	5.254890	.0505124
#3	4.449020	3.642425	.0044848	-.000838	5.871316	5.261698	.0513054

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4983-16DLX2 Acquired: 12/15/2024 21:17:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJG6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4652477	.1834826	.0950161
Stddev	.0048937	.0007236	.0095458
%RSD	1.051860	.3943467	10.04656
#1	.4611585	.1826530	.0840077
#2	.4639148	.1839830	.1000355
#3	.4706698	.1838118	.1010050

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2334.925	28372.99	2722.490	1960.053	2740.746
Stddev	18.738	101.76	14.993	5.298	25.985
%RSD	.8025132	.3586340	.5507060	.2702760	.9481089
#1	2323.388	28285.54	2706.679	1956.485	2727.008
#2	2324.841	28348.76	2724.289	1957.535	2724.514
#3	2356.545	28484.68	2736.503	1966.140	2770.717

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4983-17DLX2 Acquired: 12/15/2024 21:20:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJG7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0338592	.0371370	.3492438	-.038439	-.006058	24.48916	.2879846
Stddev	.0030114	.0027544	.0026113	.005115	.000202	.01877	.0007941
%RSD	8.893833	7.416992	.7477025	13.30620	3.331419	.0766394	.2757560
#1	.0318033	.0342256	.3521772	-.032865	-.006236	24.50826	.2871448
#2	.0324585	.0397017	.3471725	-.039535	-.006099	24.47074	.2887233
#3	.0373158	.0374836	.3483818	-.042917	-.005838	24.48847	.2880857

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023460	.0039042	519.9678	.0397905	.0714086	.2077445	73.20489
Stddev	.0000969	.0000914	1.0433	.0002351	.0010668	.0076286	.12310
%RSD	4.131271	2.341834	.2006406	.5908094	1.493980	3.672119	.1681630
#1	.0024099	.0038546	520.9416	.0397373	.0720668	.2043992	73.14882
#2	.0022345	.0040097	520.0952	.0395866	.0701777	.2164742	73.11980
#3	.0023935	.0038484	518.8667	.0400477	.0719812	.2023600	73.34605

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.347053	212.2195	.0681719	-.003727	.3066823	.0445897	.8020178
Stddev	.005065	.5509	.0016942	.000275	.2672321	.0102943	.0098196
%RSD	.0689324	.2595919	2.485148	7.369601	87.13647	23.08662	1.224361
#1	7.348670	211.8243	.0689245	-.004028	.5625018	.0483424	.7906968
#2	7.341377	212.8488	.0662318	-.003489	.3282057	.0524812	.8082266
#3	7.351111	211.9853	.0693593	-.003666	.0293393	.0329456	.8071299

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.727034	3.018301	.0057559	.0027620	5.155362	5.571264	.0361370
Stddev	.051348	.010304	.0011436	.0009676	.030186	.022151	.0013443
%RSD	1.377728	.3413905	19.86826	35.03331	.5855189	.3975961	3.719925
#1	3.759551	3.025494	.0045111	.0038213	5.184649	5.596680	.0372389
#2	3.753714	3.006496	.0059966	.0025400	5.124351	5.561040	.0346392
#3	3.667838	3.022913	.0067600	.0019247	5.157087	5.556070	.0365328

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4983-17DLX2 Acquired: 12/15/2024 21:20:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJG7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3891914	.2417569	.0764354
Stddev	.0021508	.0001200	.0039493
%RSD	.5526236	.0496537	5.166793
#1	.3870069	.2417101	.0788622
#2	.3913068	.2416674	.0785655
#3	.3892606	.2418934	.0718784

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2320.488	28414.94	2730.469	1963.656	2725.288
Stddev	11.087	117.97	1.826	7.358	13.398
%RSD	.4777846	.4151703	.0668924	.3746944	.4916332
#1	2307.763	28539.52	2732.563	1970.074	2710.006
#2	2328.067	28304.93	2729.637	1965.268	2735.017
#3	2325.633	28400.35	2729.206	1955.626	2730.841

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4983-18DLX2 Acquired: 12/15/2024 21:24:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJG8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0221393	.0355520	.2640538	-.038056	-.010303	19.76469	.2110878
Stddev	.0014978	.0039507	.0023342	.001422	.003217	.48789	.0059419
%RSD	6.765478	11.11234	.8839674	3.737607	31.22950	2.468501	2.814900
#1	.0227865	.0382471	.2667324	-.036652	-.006588	19.51074	.2091576
#2	.0232047	.0373920	.2624552	-.038020	-.012110	19.45615	.2063510
#3	.0204267	.0310170	.2629740	-.039496	-.012211	20.32717	.2177549

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018489	.0035555	696.3931	.0322994	.0725705	.1611303	61.01246
Stddev	.0001645	.0001335	16.8312	.0013351	.0005839	.0040626	1.59301
%RSD	8.898665	3.754933	2.416912	4.133603	.8046361	2.521294	2.610952
#1	.0020284	.0036938	688.5748	.0307578	.0719396	.1577783	60.42308
#2	.0017052	.0035454	684.8929	.0330688	.0726801	.1599643	59.79814
#3	.0018132	.0034274	715.7115	.0330717	.0730919	.1656484	62.81617

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.581515	195.5201	.0557085	-.002541	.6159183	.0469973	.6411588
Stddev	.174674	5.2661	.0009089	.001462	.3715561	.0040896	.0101656
%RSD	2.654013	2.693356	1.631526	57.54089	60.32556	8.701835	1.585511
#1	6.498242	193.1771	.0555709	-.002476	.7513809	.0434829	.6521187
#2	6.464060	191.8322	.0566783	-.004036	.1956372	.0514861	.6393189
#3	6.782244	201.5510	.0548762	-.001113	.9007368	.0460228	.6320387

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.270705	2.673599	.0080858	.0000275	4.562983	5.596705	.0302364
Stddev	.304582	.015881	.0007859	.0001204	.036732	.072352	.0007329
%RSD	9.312415	.5939924	9.719390	437.4912	.8050050	1.292768	2.423943
#1	3.441659	2.662564	.0072599	-.000085	4.545689	5.563691	.0301892
#2	2.919050	2.666431	.0088243	.000014	4.538090	5.546748	.0295282
#3	3.451408	2.691800	.0081732	.000154	4.605170	5.679676	.0309918

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4983-18DLX2 Acquired: 12/15/2024 21:24:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJG8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2984526	.4113893	.0776642
Stddev	.0076124	.0108994	.0071954
%RSD	2.550626	2.649410	9.264768
#1	.2937722	.4066872	.0834452
#2	.2943492	.4036303	.0696056
#3	.3072363	.4238505	.0799418

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2283.853	27802.41	2671.994	1919.379	2701.220
Stddev	1.922	44.77	30.709	5.669	5.098
%RSD	.0841394	.1610388	1.149279	.2953804	.1887191
#1	2282.900	27852.61	2691.098	1915.443	2703.369
#2	2286.064	27766.61	2688.313	1916.817	2704.890
#3	2282.593	27788.01	2636.571	1925.877	2695.399

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4983-19DLX2 Acquired: 12/15/2024 21:28:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJG9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0132869**	**.0398955**	**.1774766**	**-.052877**	**-.014917**	**11.78889**
Stddev	.0016784	.0030488	.0004674	.003383	.001735	.03511
%RSD	12.63201	7.641948	.2633791	6.398086	11.62893	.2978648
#1	.0147311	.0417535	.1771118	-.048971	-.016870	11.75039
#2	.0136839	.0363769	.1780035	-.054850	-.013554	11.81915
#3	.0114456	.0415562	.1773145	-.054812	-.014329	11.79712

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1583060**	**.0012353**	**.0024406**	F **1096.355**	**.0238330**	**.0652124**
Stddev	.0005766	.0000328	.0001752	.947	.0013873	.0010976
%RSD	.3642155	2.654045	7.178315	.0863701	5.820992	1.683043
#1	.1587233	.0012251	.0026422	1095.284	.0222321	.0661547
#2	.1585465	.0012720	.0023250	1096.702	.0245831	.0640073
#3	.1576481	.0012089	.0023547	1097.081	.0246838	.0654752

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0923648**	**46.00250**	**6.191442**	**162.9406**	**.0415248**	**-.002130**
Stddev	.0148282	.09155	.005512	.2523	.0013925	.000719
%RSD	16.05399	.1990208	.0890332	.1548415	3.353365	33.74527
#1	.1060739	46.09368	6.192153	162.6890	.0430729	-.002864
#2	.0766264	45.91057	6.185609	163.1936	.0411270	-.001427
#3	.0943939	46.00326	6.196565	162.9391	.0403746	-.002099

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.503262**	**.0305215**	**.3508125**	**2.686316**	**1.692524**	**.0149101**
Stddev	.462104	.0195509	.0115603	.052689	.005529	.0020584
%RSD	91.82190	64.05609	3.295287	1.961380	.3266596	13.80559
#1	-.134421	.0385233	.3636490	2.627161	1.691274	.0165460
#2	-1.02161	.0082390	.3475659	2.703580	1.687726	.0155854
#3	-.35375	.0448021	.3412226	2.728207	1.698570	.0125988

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4983-19DLX2 Acquired: 12/15/2024 21:28:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJG9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001239	4.082717	5.039142	.0172779	.1599805	.7181503
Stddev	.000772	.006332	.033197	.0021034	.0029047	.0014786
%RSD	62.35951	.1551001	.6587928	12.17383	1.815668	.2058942
#1	-.001934	4.083232	5.001908	.0195123	.1578539	.7174789
#2	-.000407	4.088776	5.049866	.0153362	.1632901	.7198455
#3	-.001375	4.076143	5.065652	.0169851	.1587976	.7171265

Elem	Li6707
Units	ppm
Avg	.0970685
Stddev	.0032188
%RSD	3.316029
#1	.0982917
#2	.0934174
#3	.0994964

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2214.590	26955.50	2643.375	1863.496	2634.603
Stddev	10.549	141.73	24.502	5.706	7.434
%RSD	.4763429	.5257951	.9269102	.3061820	.2821727
#1	2206.386	26832.87	2661.980	1857.039	2631.103
#2	2226.489	26922.96	2652.532	1865.588	2643.141
#3	2210.894	27110.67	2615.614	1867.860	2629.564

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4983-20DLX2 Acquired: 12/15/2024 21:32:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJH0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0086523**	**.0465344**	**.0882974**	**-.059966**	**-.017646**	**9.909132**
Stddev	.0041593	.0036020	.0025939	.004825	.000921	.294606
%RSD	48.07139	7.740506	2.937686	8.046025	5.218727	2.973077
#1	.0044235	.0460611	.0912143	-.064537	-.017282	9.624748
#2	.0087950	.0431924	.0874280	-.054922	-.018693	9.889654
#3	.0127383	.0503496	.0862499	-.060440	-.016962	10.21299

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1308099**	**.0009467**	**.0015616**	F **1576.695**	**.0184884**	**.0661676**
Stddev	.0036686	.0000921	.0001988	35.801	.0010733	.0015613
%RSD	2.804560	9.732117	12.72842	2.270643	5.805211	2.359564
#1	.1286145	.0008664	.0016973	1538.246	.0197276	.0655828
#2	.1287701	.0009264	.0013334	1582.767	.0178787	.0649832
#3	.1350451	.0010473	.0016540	1609.072	.0178587	.0679368

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0663198**	**36.91381**	**7.016790**	**100.9165**	**.0334158**	**-.001396**
Stddev	.0031045	1.01282	.185671	2.3469	.0006762	.000778
%RSD	4.681051	2.743753	2.646100	2.325570	2.023658	55.70023
#1	.0683908	36.04839	6.854538	98.8430	.0341758	-.000681
#2	.0627503	36.66527	6.976552	100.4423	.0331910	-.002224
#3	.0678182	38.02777	7.219282	103.4643	.0328807	-.001283

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.054643**	**.0246809**	**.2001928**	**2.395266**	**1.668662**	**.0168628**
Stddev	.810493	.0061438	.0147733	.221870	.029789	.0011355
%RSD	1483.260	24.89306	7.379561	9.262841	1.785186	6.733757
#1	-.059404	.0213105	.2087750	2.139524	1.702800	.0156146
#2	.758220	.0317723	.2086694	2.536307	1.647946	.0178346
#3	-.862744	.0209600	.1831341	2.509966	1.655238	.0171392

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4983-20DLX2 Acquired: 12/15/2024 21:32:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJH0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001872**	**1.935950**	**5.178247**	**.0124666**	**.1339045**	**1.186172**
Stddev	.000542	.017197	.088565	.0009585	.0151016	.030897
%RSD	28.96738	.8882748	1.710335	7.688160	11.27790	2.604750
#1	-.001641	1.955171	5.101646	.0130235	.1284204	1.159664
#2	-.002491	1.922023	5.157871	.0113598	.1223113	1.178747
#3	-.001483	1.930657	5.275225	.0130164	.1509819	1.220105

Elem	Li6707
Units	ppm
Avg	**.1257734**
Stddev	.0041287
%RSD	3.282618
#1	.1288580
#2	.1210831
#3	.1273792

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2186.134**	**26727.40**	**2590.140**	**1845.541**	**2587.228**
Stddev	23.247	612.40	71.599	40.100	29.351
%RSD	1.063381	2.291292	2.764291	2.172819	1.134468
#1	2161.016	26471.75	2662.926	1830.824	2556.116
#2	2206.892	26284.23	2587.703	1814.879	2614.426
#3	2190.494	27426.20	2519.790	1890.921	2591.143

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5067-01DL2X4 Acquired: 12/15/2024 21:36:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28M0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0154637	.0615803	.1113626	.0230829	.0832724	36.16352
Stddev	.0051109	.0026832	.0007777	.0038487	.0016805	.01870
%RSD	33.05112	4.357151	.6983804	16.67356	2.018054	.0516985
#1	.0197933	.0590150	.1107708	.0232286	.0843778	36.14266
#2	.0098258	.0643675	.1122435	.0191633	.0813386	36.16912
#3	.0167720	.0613585	.1110735	.0268567	.0841010	36.17877

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2435292	.0027320	.0032455	574.3059	3.030765	.0591463
Stddev	.0001489	.0001547	.0001743	.9559	.007558	.0001444
%RSD	.0611633	5.664362	5.371881	.1664447	.2493814	.2440636
#1	.2436150	.0029070	.0031289	575.2287	3.038366	.0592589
#2	.2433572	.0026131	.0031616	574.3691	3.030678	.0589835
#3	.2436154	.0026760	.0034459	573.3200	3.023250	.0591964

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.023514	384.2489	F 62.47123	101.5394	.1013039	-.019371
Stddev	.007166	.3197	.08954	.1588	.0012171	.002145
%RSD	30.47442	.0831960	.1433269	.1564054	1.201458	11.07346
#1	-.031789	384.5495	62.54733	101.4806	.1025954	-.018080
#2	-.019401	384.2842	62.49380	101.7192	.1001781	-.018185
#3	-.019353	383.9131	62.37257	101.4183	.1011381	-.021847

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.975697	1.257742	.1105162	1.024465	6.762169	.0536745
Stddev	.653590	.003314	.0109481	.163306	.017250	.0023769
%RSD	66.98702	.2634705	9.906287	15.94062	.2550994	4.428434
#1	-.529261	1.255175	.1118061	1.197432	6.767156	.0525358
#2	-1.72589	1.256567	.1207621	1.003024	6.742975	.0564066
#3	-.67194	1.261483	.0989803	.872938	6.776377	.0520812

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5067-01DL2X4 Acquired: 12/15/2024 21:36:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28M0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0076049	13.99688	3.008135	.0473794	5.705299	.2562710
Stddev	.0003178	.04680	.016364	.0020530	.006725	.0002742
%RSD	4.178371	.3343706	.5440050	4.333165	.1178665	.1069821
#1	.0073087	14.00955	3.026059	.0496757	5.709207	.2561159
#2	.0079405	13.94505	3.004351	.0467414	5.697534	.2561095
#3	.0075656	14.03604	2.993993	.0457211	5.709156	.2565875

Elem	Li6707
Units	ppm
Avg	.0751895
Stddev	.0064230
%RSD	8.542454
#1	.0810795
#2	.0683411
#3	.0761478

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2178.866	27019.22	2576.090	1854.170	2801.730
Stddev	7.322	81.81	5.773	9.029	10.644
%RSD	.3360559	.3028001	.2241154	.4869777	.3799077
#1	2172.405	27113.57	2571.772	1863.084	2791.985
#2	2177.373	26967.89	2573.850	1854.396	2800.117
#3	2186.819	26976.20	2582.648	1845.030	2813.088

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5067-02DL2X4 Acquired: 12/15/2024 21:40:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28M1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0202559**	**.0557880**	**.1546441**	**.0101401**	**.0888910**	**37.33077**
Stddev	.0038665	.0024804	.0025922	.0030418	.0021744	.12339
%RSD	19.08799	4.446041	1.676254	29.99788	2.446168	.3305381
#1	.0247171	.0574790	.1574040	.0135848	.0905304	37.26883
#2	.0181760	.0569443	.1522607	.0078234	.0897181	37.25061
#3	.0178747	.0529406	.1542677	.0090121	.0864243	37.47286

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3590520**	**.0056093**	**.0037887**	**537.5501**	**3.239288**	**.0607322**
Stddev	.0007514	.0001631	.0001532	.5640	.010398	.0005409
%RSD	.2092754	2.906865	4.044784	.1049139	.3209994	.8906946
#1	.3590380	.0056936	.0037832	537.9071	3.248688	.0602098
#2	.3583076	.0057131	.0036383	536.8999	3.228119	.0606969
#3	.3598103	.0054214	.0039446	537.8433	3.241056	.0612900

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0090197**	**388.9201**	F **48.78513**	**98.31202**	**.2806338**	**-.022904**
Stddev	.0032126	1.0989	.17394	.49826	.0014618	.000350
%RSD	35.61779	.2825534	.3565387	.5068109	.5209012	1.528837
#1	.0118412	389.3506	48.78618	98.57321	.2799975	-.023174
#2	.0096946	387.6711	48.61068	97.73748	.2795979	-.022508
#3	.0055232	389.7386	48.95855	98.62538	.2823060	-.023030

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.007103**	**.4947566**	**.0996678**	**1.835308**	**4.178123**	**.1997921**
Stddev	.380298	.0042649	.0074285	.223301	.013808	.0061263
%RSD	5354.338	.8620233	7.453293	12.16695	.3304943	3.066335
#1	.431842	.4978335	.0942295	1.587657	4.182870	.2037227
#2	-.215521	.4898881	.0966423	1.896963	4.162567	.1927332
#3	-.237629	.4965481	.1081317	2.021303	4.188932	.2029203

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5067-02DL2X4 Acquired: 12/15/2024 21:40:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28M1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0157869	20.86824	2.706659	.0442999	4.013454	.0192318
Stddev	.0002031	.08395	.014892	.0002086	.016724	.0009086
%RSD	1.286519	.4022856	.5502157	.4707901	.4166915	4.724545
#1	.0158773	20.80839	2.721680	.0440705	4.000838	.0182368
#2	.0159291	20.83211	2.706399	.0444780	4.007102	.0194411
#3	.0155543	20.96420	2.691899	.0443514	4.032423	.0200175

Elem	Li6707
Units	ppm
Avg	.0752911
Stddev	.0045787
%RSD	6.081361
#1	.0799196
#2	.0751898
#3	.0707638

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2205.532	27320.44	2600.842	1868.103	2810.075
Stddev	7.532	151.99	12.792	14.542	6.701
%RSD	.3414896	.5563380	.4918599	.7784410	.2384716
#1	2213.206	27379.72	2587.479	1873.826	2817.803
#2	2198.151	27433.87	2612.976	1878.913	2805.865
#3	2205.240	27147.74	2602.070	1851.570	2806.558

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5042-01 Acquired: 12/15/2024 21:43:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1190927**	**.0243508**	**1.843823**	**-.007526**	**.0212991**	**59.13876**	**1.377927**
Stddev	.0007915	.0016289	.001243	.001079	.0044523	.01890	.001421
%RSD	.6645960	6.689491	.0674278	14.33722	20.90353	.0319661	.1031500
#1	.1181822	.0225329	1.844021	-.008290	.0210178	59.13109	1.376552
#2	.1194795	.0256780	1.844956	-.006292	.0169942	59.16029	1.377838
#3	.1196165	.0248414	1.842493	-.007997	.0258854	59.12489	1.379391

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0058331**	**.0075601**	**118.5651**	**.0975929**	**.1077438**	**.4462729**	**152.9786**
Stddev	.0000747	.0000613	.3452	.0008042	.0000531	.0080399	.0560
%RSD	1.281105	.8107310	.2911119	.8240027	.0492598	1.801563	.0365924
#1	.0057610	.0076227	118.1788	.0967323	.1078014	.4413009	152.9427
#2	.0059102	.0075576	118.6733	.0977212	.1077331	.4555486	153.0431
#3	.0058282	.0075002	118.8432	.0983252	.1076968	.4419693	152.9500

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.75614**	**30.00425**	**.1487411**	**-.006836**	**-.432051**	**.1348857**	**1.343453**
Stddev	.01812	.04839	.0011642	.000152	.301326	.0072658	.015867
%RSD	.1541210	.1612780	.7827025	2.225803	69.74317	5.386664	1.181051
#1	11.73534	30.04139	.1492995	-.007002	-.710398	.1431981	1.361649
#2	11.76847	29.94953	.1474029	-.006704	-.473681	.1317141	1.332499
#3	11.76461	30.02184	.1495209	-.006800	-.112075	.1297447	1.336212

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.966787**	**6.715980**	**-.011438**	**.0064469**	**1.992732**	**9.199033**	**.0954404**
Stddev	.105556	.003634	.001005	.0005346	.008990	.044892	.0010254
%RSD	1.515136	.0541165	8.782856	8.292005	.4511257	.4880064	1.074434
#1	7.041149	6.716557	-.011664	.0069599	1.992471	9.147803	.0943602
#2	7.013240	6.712091	-.012311	.0058931	2.001849	9.217800	.0955607
#3	6.845970	6.719291	-.010340	.0064877	1.983875	9.231496	.0964005

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5042-01 Acquired: 12/15/2024 21:43:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7027585	.8730734	.0927989
Stddev	.0048485	.0013027	.0104031
%RSD	.6899254	.1492084	11.21041
#1	.7076966	.8716670	.0834282
#2	.6980049	.8742386	.1039933
#3	.7025741	.8733146	.0909752

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2644.597	32023.61	2994.793	2224.559	3083.150
Stddev	10.010	72.54	4.229	11.143	12.355
%RSD	.3785000	.2265186	.1412223	.5009137	.4007191
#1	2649.708	31941.43	2993.926	2212.153	3089.612
#2	2651.020	32078.75	2991.065	2233.717	3090.935
#3	2633.064	32050.63	2999.389	2227.808	3068.905

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5042-02 Acquired: 12/15/2024 21:47:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB0D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1170612**	**.0261529**	**1.766841**	**-.005412**	**.0203541**	**56.25931**	**1.310562**
Stddev	.0041464	.0019868	.004810	.001539	.0016525	1.73157	.036801
%RSD	3.542061	7.596883	.2722534	28.44439	8.118906	3.077841	2.807997
#1	.1205719	.0249295	1.766471	-.006996	.0187596	56.77822	1.323661
#2	.1124865	.0284453	1.762226	-.003922	.0202437	54.32761	1.269004
#3	.1181253	.0250839	1.771825	-.005316	.0220591	57.67209	1.339020

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0057635**	**.0072474**	**113.2954**	**.0941150**	**.1040463**	**.4195882**	**145.1803**
Stddev	.0002147	.0000765	3.5562	.0007679	.0001142	.0048560	4.3604
%RSD	3.724213	1.055234	3.138858	.8158854	.1097309	1.157335	3.003457
#1	.0059833	.0072253	114.6192	.0949597	.1040817	.4202353	146.4006
#2	.0055544	.0073325	109.2672	.0934592	.1041386	.4144411	140.3397
#3	.0057528	.0071844	115.9999	.0939261	.1039186	.4240883	148.8006

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.17268**	**28.50734**	**.1417408**	**-.006551**	**-.149045**	**.1360629**	**1.258138**
Stddev	.33675	.90763	.0007876	.001529	.584036	.0063897	.005541
%RSD	3.014013	3.183838	.5556657	23.33204	391.8522	4.696157	.4404357
#1	11.29806	28.86779	.1426455	-.005500	.017388	.1415462	1.253706
#2	10.79123	27.47485	.1412083	-.008305	-.798233	.1290459	1.264350
#3	11.42874	29.17937	.1413685	-.005849	.333710	.1375966	1.256356

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.157401**	**6.431316**	**-.014115**	**.0063646**	**1.911635**	**8.850413**	**.0898628**
Stddev	.311583	.010884	.001039	.0004559	.011056	.217372	.0011642
%RSD	5.060301	.1692404	7.361869	7.163183	.5783746	2.456063	1.295536
#1	6.204814	6.435062	-.013084	.0058437	1.908410	8.859573	.0895583
#2	5.824829	6.419053	-.015162	.0065593	1.902550	8.628607	.0888812
#3	6.442560	6.439833	-.014099	.0066908	1.923946	9.063060	.0911490

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5042-02 Acquired: 12/15/2024 21:47:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB0D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6648185	.8276850	.0830485
Stddev	.0155251	.0236325	.0047897
%RSD	2.335236	2.855253	5.767343
#1	.6671408	.8344633	.0825860
#2	.6482632	.8014041	.0785069
#3	.6790517	.8471877	.0880527

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2737.491	33415.77	3144.182	2320.029	3210.643
Stddev	6.867	114.34	80.627	7.861	5.095
%RSD	.2508410	.3421638	2.564332	.3388187	.1587013
#1	2738.186	33547.68	3147.564	2326.518	3209.052
#2	2743.984	33344.96	3223.064	2322.282	3216.344
#3	2730.303	33354.68	3061.916	2311.288	3206.533

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5042-01LX5 Acquired: 12/15/2024 21:51:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB0L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0252251	.0077220	.3644057	-.008765	.0005787	12.81544	.3016891
Stddev	.0020791	.0026137	.0017880	.004438	.0018799	.08969	.0023782
%RSD	8.242345	33.84693	.4906478	50.63054	324.8845	.6998549	.7882980
#1	.0247177	.0051950	.3632602	-.012092	-.001183	12.73330	.2992952
#2	.0234467	.0075566	.3634908	-.010477	.002558	12.91114	.3040513
#3	.0275111	.0104145	.3664659	-.003726	.000361	12.80187	.3017209

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013905	.0014716	26.23298	.0214592	.0286443	.1071812	33.51475
Stddev	.0001141	.0000942	.23516	.0005368	.0002036	.0039869	.25375
%RSD	8.207136	6.403738	.8964358	2.501701	.7107220	3.719740	.7571246
#1	.0012599	.0015174	26.09986	.0210030	.0286700	.1105597	33.23917
#2	.0014713	.0013632	26.50451	.0213239	.0284291	.1027837	33.73874
#3	.0014402	.0015342	26.09458	.0220508	.0288338	.1082001	33.56633

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.586531	6.636249	.0275573	-.001805	-.587829	.0212835	.2742892
Stddev	.020727	.031234	.0011280	.000978	.875204	.0106302	.0091336
%RSD	.8013424	.4706559	4.093202	54.19241	148.8876	49.94557	3.329914
#1	2.568250	6.672222	.0285834	-.000822	.277790	.0334181	.2676917
#2	2.609049	6.620504	.0263495	-.001814	-.568963	.0136145	.2704622
#3	2.582295	6.616022	.0277391	-.002778	-1.47231	.0168181	.2847138

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.610747	1.300994	-.007179	.0008699	.3874219	2.069234	.0169380
Stddev	.040501	.003159	.001646	.0002412	.0064726	.030895	.0011497
%RSD	2.514406	.2428368	22.93193	27.72448	1.670675	1.493077	6.787494
#1	1.575342	1.297346	-.007974	.0006911	.3802726	2.078307	.0165063
#2	1.601987	1.302812	-.005286	.0007745	.3928834	2.094577	.0160667
#3	1.654910	1.302823	-.008278	.0011442	.3891095	2.034818	.0182410

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5042-01LX5 Acquired: 12/15/2024 21:51:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB0L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1535234	.1907241	.0203277
Stddev	.0040388	.0016721	.0026262
%RSD	2.630738	.8766925	12.91944
#1	.1553340	.1895418	.0190363
#2	.1563401	.1926372	.0233495
#3	.1488961	.1899935	.0185971

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2468.095	30002.79	2762.203	2086.497	3288.981
Stddev	8.278	126.82	31.859	2.687	4.696
%RSD	.3354012	.4226986	1.153408	.1287958	.1427867
#1	2460.129	29925.01	2752.063	2086.006	3283.795
#2	2476.653	30149.14	2736.648	2089.396	3292.948
#3	2467.501	29934.23	2797.898	2084.089	3290.199

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5042-03 Acquired: 12/15/2024 21:55:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB0S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2056720	.1178382	1.854045	.1448745	.1678452	61.21074	4.893396
Stddev	.0042102	.0024949	.001641	.0052575	.0033333	.04955	.010023
%RSD	2.047062	2.117262	.0885067	3.628985	1.985952	.0809518	.2048191
#1	.2052639	.1206992	1.852293	.1418348	.1668929	61.15573	4.885932
#2	.2100714	.1161144	1.855546	.1418434	.1650917	61.25187	4.904788
#3	.2016807	.1167012	1.854296	.1509453	.1715511	61.22462	4.889470

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0904704	.1001890	117.3798	.4571447	1.034341	.8632369	151.8746
Stddev	.0004803	.0004441	.1611	.0028842	.004296	.0090093	.3701
%RSD	.5309504	.4432190	.1372145	.6309131	.4153099	1.043668	.2436711
#1	.0907251	.1000968	117.4109	.4587260	1.033355	.8640513	151.4593
#2	.0907698	.0997982	117.5231	.4588923	1.030624	.8538480	152.1694
#3	.0899163	.1006719	117.2055	.4538157	1.039044	.8718113	151.9950

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.44834	29.37209	1.102597	.0623695	-.071919	1.035644	2.051518
Stddev	.01630	.12111	.003344	.0002777	.568302	.002699	.024412
%RSD	.1309485	.4123192	.3033092	.4452256	790.1966	.2606324	1.189933
#1	12.43565	29.25234	1.100172	.0625922	.551621	1.032527	2.028245
#2	12.46673	29.36941	1.101208	.0624579	-.560792	1.037236	2.049381
#3	12.44265	29.49451	1.106412	.0620584	-.206585	1.037168	2.076928

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.624484	6.633920	-.020206	.0066167	1.968578	9.050151	.0944339
Stddev	.073084	.013029	.003510	.0002764	.002969	.054864	.0006583
%RSD	1.103241	.1964072	17.37167	4.177622	.1508067	.6062165	.6971364
#1	6.629600	6.621852	-.023004	.0069356	1.968559	9.088931	.0942154
#2	6.694876	6.632172	-.016267	.0064460	1.965619	9.074144	.0951737
#3	6.548977	6.647735	-.021346	.0064684	1.971556	8.987378	.0939126

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5042-03 Acquired: 12/15/2024 21:55:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB0S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6842702	.8557732	.0891883
Stddev	.0033917	.0003316	.0044358
%RSD	.4956733	.0387472	4.973553
#1	.6808529	.8559551	.0846572
#2	.6876358	.8559740	.0935223
#3	.6843218	.8553905	.0893855

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2670.856	32514.58	3053.283	2262.346	3131.125
Stddev	20.672	6.06	11.632	5.931	22.546
%RSD	.7739794	.0186224	.3809618	.2621432	.7200631
#1	2659.756	32511.59	3046.068	2269.164	3118.953
#2	2694.706	32510.61	3047.080	2259.498	3157.141
#3	2658.104	32521.55	3066.702	2258.376	3117.280

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4964-04DL2X4 Acquired: 12/15/2024 21:59:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0036892**	**.0304847**	**.2623331**	**-.042016**	**-.011792**	**6.605498**	**.1090108**
Stddev	.0073958	.0032670	.0004848	.001956	.001942	.056683	.0010811
%RSD	200.4727	10.71691	.1848041	4.656556	16.47269	.8581189	.9917519
#1	.0110070	.0341935	.2623729	-.043310	-.009695	6.670944	.1100315
#2	.0038429	.0292279	.2618296	-.039765	-.012152	6.571984	.1078780
#3	-.003782	.0280327	.2627967	-.042971	-.013529	6.573568	.1091229

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007772**	**.0024354**	**403.6153**	**.0212796**	**.0446603**	**.0609452**	**29.50341**
Stddev	.0000592	.0000389	1.0157	.0003378	.0005316	.0114708	.22971
%RSD	7.611741	1.598498	.2516538	1.587511	1.190242	18.82144	.7785778
#1	.0008148	.0024249	404.6066	.0216440	.0450653	.0650746	29.71941
#2	.0008079	.0024785	402.5768	.0212180	.0440584	.0479815	29.52872
#3	.0007090	.0024028	403.6626	.0209768	.0448573	.0697796	29.26209

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.766158**	**205.8166**	**.0321236**	**-.000739**	**-.655124**	**.0224055**	**.4639165**
Stddev	.011090	.4472	.0005034	.000876	.120777	.0034044	.0047010
%RSD	.4009307	.2172995	1.567039	118.5164	18.43579	15.19459	1.013330
#1	2.774036	206.2692	.0326142	-.000719	-.787967	.0185363	.4620937
#2	2.770963	205.8059	.0316084	-.001625	-.625470	.0249419	.4603999
#3	2.753475	205.3749	.0321483	.000127	-.551936	.0237383	.4692560

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.895340**	**1.224160**	**.0169330**	**.0005770**	**3.892602**	**2.530785**	**.0150466**
Stddev	.095294	.003571	.0007162	.0004915	.023039	.028025	.0010530
%RSD	5.027825	.2917461	4.229496	85.18982	.5918628	1.107357	6.998161
#1	1.959021	1.225346	.0169086	.0000545	3.917312	2.536697	.0139909
#2	1.785785	1.220146	.0176611	.0010302	3.871711	2.555382	.0160968
#3	1.941215	1.226987	.0162294	.0006462	3.888785	2.500276	.0150519

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4964-04DL2X4 Acquired: 12/15/2024 21:59:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ02 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1285524	.1360887	.0478818
Stddev	.0032542	.0004214	.0076228
%RSD	2.531391	.3096198	15.92013
#1	.1318074	.1363983	.0566683
#2	.1285508	.1362590	.0439433
#3	.1252991	.1356089	.0430340

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2214.411	27099.37	2594.748	1868.526	2793.441
Stddev	2.876	18.56	22.166	6.734	2.093
%RSD	.1298903	.0685070	.8542812	.3603696	.0749087
#1	2211.101	27083.06	2591.484	1871.677	2792.095
#2	2215.828	27119.58	2574.394	1873.107	2792.378
#3	2216.304	27095.49	2618.365	1860.795	2795.852

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4964-06DL2X4 Acquired: 12/15/2024 22:03:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0103291	.0339233	.1756052	-.050252	-.015650	4.464836	.0555242
Stddev	.0033107	.0032182	.0012095	.009174	.001351	.015176	.0013516
%RSD	32.05203	9.486617	.6887466	18.25645	8.630364	.3398979	2.434257
#1	.0124283	.0333783	.1758187	-.060834	-.017202	4.458723	.0542155
#2	.0065126	.0373791	.1743032	-.045386	-.014744	4.482115	.0569149
#3	.0120464	.0310124	.1766937	-.044536	-.015003	4.453671	.0554424

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007106	.0016899	557.0103	.0152043	.0475314	.0170951	29.34283
Stddev	.0000733	.0000562	2.4023	.0006430	.0011785	.0088171	.05319
%RSD	10.31323	3.325493	.4312909	4.228857	2.479321	51.57673	.1812811
#1	.0006261	.0017534	555.6857	.0158346	.0467764	.0120020	29.31694
#2	.0007497	.0016697	559.7833	.0152289	.0469285	.0120072	29.40402
#3	.0007561	.0016466	555.5618	.0145494	.0488893	.0272762	29.30754

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.101299	300.3382	.0225673	-.000029	.1282846	.0121290	.2774852
Stddev	.003999	.5096	.0001517	.000964	.8967710	.0070624	.0104222
%RSD	.1289456	.1696670	.6721603	3277.456	699.0480	58.22763	3.755951
#1	3.102542	300.5135	.0226653	.000434	-.807998	.0118975	.2669746
#2	3.096826	300.7369	.0223925	-.001138	.979479	.0193043	.2776645
#3	3.104529	299.7641	.0226440	.000616	.213373	.0051851	.2878167

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.445564	.5125791	.0194069	-.000553	6.820787	2.314011	.0076313
Stddev	.116468	.0019369	.0008499	.000827	.018994	.018983	.0011336
%RSD	4.762427	.3778771	4.379509	149.5687	.2784655	.8203319	14.85393
#1	2.566093	.5103544	.0192733	-.000529	6.834887	2.334994	.0076403
#2	2.333634	.5134923	.0186317	.000262	6.799189	2.309010	.0064932
#3	2.436965	.5138906	.0203157	-.001391	6.828285	2.298031	.0087603

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4964-06DL2X4 Acquired: 12/15/2024 22:03:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ04 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0380161	.1684602	.0537177
Stddev	.0057698	.0005071	.0048637
%RSD	15.17718	.3010419	9.054195
#1	.0322803	.1682364	.0482017
#2	.0379488	.1690407	.0573902
#3	.0438192	.1681034	.0555611

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2167.426	26495.13	2557.395	1819.291	2706.871
Stddev	13.204	46.35	17.714	7.306	17.780
%RSD	.6091871	.1749440	.6926647	.4016098	.6568491
#1	2182.659	26517.76	2539.901	1810.855	2727.387
#2	2159.267	26441.81	2556.962	1823.547	2697.299
#3	2160.352	26525.81	2575.321	1823.472	2695.928

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4983-04DL2X4 Acquired: 12/15/2024 22:07:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJE6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0142108**	**.0326972**	**.0966299**	**-.041797**	**-.008824**	**8.859753**	**.1712202**
Stddev	.0066903	.0034915	.0014367	.003568	.001427	.323856	.0057294
%RSD	47.07911	10.67816	1.486762	8.537646	16.16718	3.655356	3.346235
#1	.0211493	.0346271	.0980890	-.045301	-.008015	9.088104	.1758468
#2	.0077998	.0347975	.0952168	-.038168	-.007985	9.002044	.1730023
#3	.0136834	.0286668	.0965838	-.041921	-.010471	8.489113	.1648115

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008659**	**.0012240**	**421.3304**	**.0140206**	**.0493386**	**.0701326**	**39.45851**
Stddev	.0001337	.0001431	14.2856	.0006271	.0006457	.0008415	1.34135
%RSD	15.43764	11.68702	3.390583	4.472570	1.308713	1.199885	3.399400
#1	.0009502	.0011525	430.9347	.0139287	.0491223	.0710891	40.31898
#2	.0009357	.0011309	428.1427	.0134445	.0500646	.0698023	40.14358
#3	.0007118	.0013888	404.9138	.0146886	.0488287	.0695063	37.91296

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.808581**	**33.96884**	**.0251976**	**-.002451**	**-.252042**	**.0247528**	**.1001813**
Stddev	.187802	1.02970	.0001968	.000668	.371420	.0034059	.0074206
%RSD	3.233175	3.031317	.7810682	27.24906	147.3642	13.75960	7.407183
#1	5.944499	34.67085	.0249767	-.002372	-.312195	.0271297	.1009723
#2	5.886959	34.44890	.0253542	-.001826	.145782	.0208509	.1071747
#3	5.594287	32.78677	.0252618	-.003155	-.589714	.0262777	.0923969

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.465778**	**1.692490**	**-.006005**	**.0027088**	**.7646665**	**3.337122**	**.0055483**
Stddev	.361547	.014742	.003954	.0002093	.0092146	.111784	.0016410
%RSD	24.66587	.8710073	65.83757	7.727712	1.205052	3.349706	29.57555
#1	1.602860	1.678959	-.003471	.0028519	.7540274	3.387396	.0073717
#2	1.738737	1.690312	-.003984	.0028059	.7698563	3.414942	.0041903
#3	1.055736	1.708200	-.010561	.0024685	.7701157	3.209029	.0050830

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4983-04DL2X4 Acquired: 12/15/2024 22:07:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJE6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1425168	.1892470	.0486504
Stddev	.0040716	.0058490	.0042095
%RSD	2.856906	3.090692	8.652487
#1	.1455219	.1932997	.0534450
#2	.1441455	.1918996	.0455615
#3	.1378830	.1825417	.0469448

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2304.386	28307.70	2688.499	1956.662	2887.909
Stddev	3.900	313.19	60.616	17.665	11.924
%RSD	.1692242	1.106374	2.254644	.9028154	.4128897
#1	2307.027	28569.66	2652.536	1962.830	2901.452
#2	2299.907	28392.64	2654.477	1970.416	2878.985
#3	2306.223	27960.80	2758.483	1936.740	2883.291

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: CCV032 Acquired: 12/15/2024 22:11:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV032 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.859728**	**4.835540**	**24.12334**	**4.643017**	**4.721023**	**391.1107**	**10.04865**
Stddev	.006927	.019977	.05305	.007537	.006780	1.0250	.03000
%RSD	.1425375	.4131345	.2199217	.1623356	.1436110	.2620640	.2985840
#1	4.851748	4.813225	24.07330	4.634349	4.720055	391.4140	10.06254
#2	4.863247	4.841634	24.11776	4.646673	4.714779	391.9498	10.06919
#3	4.864189	4.851761	24.17896	4.648029	4.728235	389.9683	10.01422

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4940678**	**2.416207**	**398.5378**	**14.86869**	**2.417241**	**15.08145**	**398.0003**
Stddev	.0037655	.004942	.6586	.03424	.004296	.04100	.8782
%RSD	.7621468	.2045206	.1652532	.2302665	.1777316	.2718867	.2206572
#1	.4900922	2.412247	399.0481	14.88259	2.412813	15.12525	398.7649
#2	.4945308	2.414628	398.7709	14.89380	2.417517	15.07513	398.1948
#3	.4975804	2.421745	397.7943	14.82969	2.421393	15.04397	397.0411

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.70444**	**392.6225**	**2.431142**	**1.214462**	**399.0182**	**2.442887**	**14.10824**
Stddev	.01079	.5671	.001716	.004696	1.9829	.023021	.14058
%RSD	.0733466	.1444517	.0705686	.3867042	.4969555	.9423651	.9964487
#1	14.70857	392.8426	2.430837	1.216379	400.5734	2.469107	14.21087
#2	14.71256	393.0465	2.429600	1.217896	399.6960	2.433561	14.16585
#3	14.69220	391.9782	2.432990	1.209110	396.7852	2.425992	13.94801

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**150.3527**	**4.858354**	**4.831083**	**4.667589**	**4.871206**	**4.980456**	**4.898621**
Stddev	.2369	.005562	.043206	.005410	.019097	.037044	.012509
%RSD	.1575892	.1144878	.8943362	.1159018	.3920452	.7437818	.2553578
#1	150.0839	4.852125	4.788169	4.665236	4.855459	4.941680	4.892222
#2	150.5315	4.862823	4.830504	4.663753	4.865710	4.984205	4.890606
#3	150.4425	4.860114	4.874575	4.673776	4.892448	5.015482	4.913035

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: CCV032 Acquired: 12/15/2024 22:11:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV032 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	**4.969873**	**4.729002**	**5.246234**
Stddev	.010363	.010620	.010242
%RSD	.2085070	.2245660	.1952211
#1	4.975121	4.734173	5.258046
#2	4.976562	4.736046	5.240820
#3	4.957936	4.716787	5.239835

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1938.555**	**25370.05**	**2470.207**	**1675.234**	**2551.686**
Stddev	2.682	83.20	14.096	8.465	5.553
%RSD	.1383630	.3279648	.5706228	.5052982	.2176019
#1	1940.452	25291.41	2485.277	1672.948	2557.098
#2	1939.727	25361.56	2467.997	1668.146	2551.959
#3	1935.486	25457.17	2457.347	1684.607	2546.003

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: CCB032 Acquired: 12/15/2024 22:14:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB032 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002283**	**.0001138**	**.0011940**	**.0002812**	**-.005179**	**.0126625**	**.0015013**
Stddev	.002830	.0023041	.0017032	.0056327	.001510	.0120336	.0002556
%RSD	123.9896	2025.290	142.6512	2002.975	29.14631	95.03349	17.02140
#1	-.004938	-.002518	.0004298	.0052798	-.003491	-.001165	.0014359
#2	.000695	.001766	.0000066	.0013859	-.005646	.020764	.0012849
#3	-.002604	.001093	.0031454	-.005822	-.006400	.018388	.0017832

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000040**	**.0000900**	**-.023215**	**.0005625**	**-.000296**	**-.006296**	**-.006146**
Stddev	.000089	.0001053	.038705	.0003593	.000327	.006965	.016727
%RSD	222.5679	117.0442	166.7222	63.87556	110.2953	110.6313	272.1820
#1	-.000109	.0001383	-.053002	.0009084	.000017	-.011406	-.025406
#2	-.000073	-.000031	-.037178	.0001911	-.000635	.001638	.002231
#3	.000061	.000162	.020534	.0005881	-.000270	-.009119	.004738

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001545**	**.0640417**	**.0006286**	**.0000221**	**-.638631**	**-.012951**	**-.012492**
Stddev	.000709	.1032432	.0002159	.0004114	.200974	.003791	.005279
%RSD	45.88215	161.2125	34.34541	1863.436	31.46942	29.26919	42.25737
#1	-.001252	.1692524	.0008773	.0003572	-.560886	-.008851	-.006415
#2	-.002353	.0599871	.0004888	-.000437	-.488144	-.013672	-.015117
#3	-.001030	-.037115	.0005198	.000146	-.866863	-.016329	-.015943

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6721944**	**-.001119**	**.0062677**	**-.000081**	**-.006061**	**.0028624**	**-.000911**
Stddev	.1340443	.000730	.0020932	.000133	.000387	.0006764	.000615
%RSD	19.94130	65.22444	33.39603	164.6200	6.389481	23.63195	67.45438
#1	.5573372	-.000656	.0086270	-.000191	-.006502	.0020950	-.001572
#2	.6397691	-.001961	.0046333	-.000118	-.005776	.0033722	-.000357
#3	.8194770	-.000741	.0055429	.000067	-.005905	.0031201	-.000803

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: CCB032 Acquired: 12/15/2024 22:14:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB032 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0016239	.0003430	.0148301
Stddev	.0036334	.0001465	.0033283
%RSD	223.7434	42.69267	22.44285
#1	.0057438	.0004545	.0163595
#2	.0002507	.0003975	.0110120
#3	-.001123	.0001772	.0171187

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2343.721	28521.07	2588.760	1974.885	3253.631
Stddev	4.510	91.64	15.708	11.087	4.961
%RSD	.1924338	.3212933	.6067755	.5613911	.1524716
#1	2340.668	28625.70	2572.337	1986.144	3251.409
#2	2341.594	28482.41	2590.306	1974.530	3250.170
#3	2348.902	28455.09	2603.638	1963.979	3259.315

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4983-19DL2X4 Acquired: 12/15/2024 22:18:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJG9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071979	.0353834	.0947996	-.043661	-.014245	6.063247	.0808417
Stddev	.0042337	.0019408	.0005253	.002457	.002380	.070553	.0008063
%RSD	58.81842	5.485017	.5541209	5.627329	16.71103	1.163610	.9973737
#1	.0103180	.0337125	.0941931	-.043166	-.016553	6.071693	.0800895
#2	.0023786	.0375122	.0951067	-.041489	-.014382	5.988852	.0816929
#3	.0088970	.0349254	.0950991	-.046328	-.011798	6.129196	.0807425

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006601	.0012662	568.8111	.0124785	.0486143	.0390448	23.73509
Stddev	.0001429	.0000794	1.8847	.0007197	.0009511	.0110100	.07903
%RSD	21.65204	6.273822	.3313405	5.767561	1.956511	28.19846	.3329507
#1	.0005455	.0012970	568.4096	.0117009	.0497125	.0362955	23.70410
#2	.0006147	.0013256	567.1595	.0126136	.0480753	.0511690	23.67626
#3	.0008203	.0011760	570.8642	.0131211	.0480550	.0296700	23.82492

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.188933	84.84648	.0204921	-.001849	-.758455	.0042717	.1684576
Stddev	.009254	.47329	.0006880	.001645	.640553	.0058895	.0054926
%RSD	.2902029	.5578183	3.357238	88.99750	84.45508	137.8710	3.260525
#1	3.194404	84.79082	.0197523	-.000460	-1.47979	.0015967	.1736105
#2	3.178248	84.40348	.0211126	-.003666	-.25613	.0001946	.1690836
#3	3.194148	85.34514	.0206115	-.001421	-.53944	.0110239	.1626789

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.492802	.8201866	.0128324	-.000080	1.988787	2.582627	.0098444
Stddev	.064962	.0072444	.0031887	.000362	.012895	.035019	.0013477
%RSD	4.351692	.8832671	24.84876	454.6440	.6483947	1.355941	13.69042
#1	1.496005	.8184069	.0160699	.000230	1.977169	2.611275	.0083232
#2	1.556104	.8139978	.0096948	.000008	1.986532	2.543589	.0108893
#3	1.426298	.8281550	.0127325	-.000477	2.002662	2.593016	.0103208

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4983-19DL2X4 Acquired: 12/15/2024 22:18:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJG9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0803896	.3674522	.0561294
Stddev	.0035464	.0015551	.0027969
%RSD	4.411511	.4232000	4.982921
#1	.0818482	.3675165	.0544641
#2	.0829742	.3658660	.0545657
#3	.0763465	.3689741	.0593584

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2255.676	27416.17	2635.897	1892.246	2814.767
Stddev	3.422	161.82	18.484	16.443	3.267
%RSD	.1517268	.5902279	.7012360	.8689766	.1160773
#1	2256.731	27523.38	2618.060	1903.321	2813.710
#2	2258.448	27230.03	2654.966	1873.352	2818.432
#3	2251.851	27495.10	2634.667	1900.065	2812.160

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4983-20DL2X4 Acquired: 12/15/2024 22:22:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJH0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002380**	**.0334739**	**.0524696**	**-.046407**	**-.018417**	**4.925661**
Stddev	.002198	.0017775	.0025644	.003369	.000698	.034804
%RSD	92.33433	5.310096	4.887372	7.259797	3.790007	.7065798
#1	-.004884	.0316302	.0495121	-.045356	-.018692	4.942828
#2	-.000769	.0336147	.0540737	-.043689	-.017623	4.885609
#3	-.001488	.0351768	.0538231	-.050176	-.018936	4.948546

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0656048**	**.0004211**	**.0007835**	F **801.7278**	**.0095732**	**.0499595**
Stddev	.0005652	.0001530	.0000805	2.7127	.0008569	.0006963
%RSD	.8614718	36.33739	10.27940	.3383563	8.951124	1.393692
#1	.0655587	.0005399	.0007505	798.5983	.0105623	.0501643
#2	.0661916	.0002484	.0007248	803.4094	.0090524	.0505304
#3	.0650641	.0004749	.0008753	803.1756	.0091051	.0491837

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0298099**	**18.38535**	**3.510624**	**51.17913**	**.0162394**	**-.000215**
Stddev	.0098049	.03146	.018533	.07737	.0003684	.000293
%RSD	32.89152	.1710879	.5279207	.1511772	2.268800	136.0260
#1	.0203002	18.35988	3.493034	51.09406	.0165835	-.000433
#2	.0398855	18.42051	3.529975	51.19803	.0162842	-.000330
#3	.0292439	18.37566	3.508863	51.24530	.0158507	.000118

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.467538**	**.0047276**	**.1018537**	**1.254738**	**.8147637**	**.0126813**
Stddev	.946202	.0094583	.0022335	.072453	.0069600	.0018320
%RSD	202.3798	200.0656	2.192871	5.774352	.8542400	14.44676
#1	.451349	.0112870	.1006788	1.281207	.8112289	.0110003
#2	-1.43887	-.006115	.1044294	1.310235	.8102805	.0146340
#3	-.41509	.009010	.1004529	1.172772	.8227818	.0124095

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P4983-20DL2X4 Acquired: 12/15/2024 22:22:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJH0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000749**	**.9384875**	**2.599193**	**.0059824**	**.0648727**	**.5905101**
Stddev	.000315	.0101376	.032754	.0015814	.0037344	.0034345
%RSD	42.04294	1.080205	1.260165	26.43427	5.756434	.5816111
#1	-.000688	.9420155	2.572516	.0076450	.0675406	.5877987
#2	-.000469	.9270572	2.635750	.0058050	.0664725	.5943722
#3	-.001089	.9463896	2.589315	.0044972	.0606050	.5893594

Elem	Li6707
Units	ppm
Avg	**.0704452**
Stddev	.0088410
%RSD	12.55014
#1	.0791209
#2	.0614478
#3	.0707669

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2276.924**	**27726.76**	**2684.798**	**1916.888**	**2829.761**
Stddev	11.941	159.73	7.023	10.248	14.228
%RSD	.5244228	.5760955	.2615683	.5346110	.5027978
#1	2288.051	27584.36	2683.148	1909.672	2838.901
#2	2278.412	27696.44	2678.747	1912.373	2837.014
#3	2264.309	27899.48	2692.499	1928.618	2813.368

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-01 Acquired: 12/15/2024 22:27:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0944679**	**.0108384**	**1.060964**	**.0045145**	**.0266958**	**64.50862**
Stddev	.0009836	.0031606	.002904	.0038654	.0029686	.07059
%RSD	1.041224	29.16099	.2737032	85.62220	11.11998	.1094234
#1	.0933775	.0130489	1.062821	.0064326	.0292114	64.56161
#2	.0952884	.0072183	1.057618	.0070458	.0274546	64.53575
#3	.0947379	.0122479	1.062453	.0000652	.0234215	64.42849

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.312243**	**.0064473**	**.0068407**	**55.98495**	**.1189129**	**.0905961**
Stddev	.003190	.0001647	.0000588	.08339	.0004768	.0006922
%RSD	.2430688	2.554232	.8591668	.1489460	.4009276	.7640415
#1	1.313566	.0064890	.0069083	55.95623	.1193419	.0903921
#2	1.314559	.0065871	.0068020	56.07890	.1183996	.0900288
#3	1.308605	.0062657	.0068117	55.91971	.1189970	.0913674

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3336049**	**151.0867**	**6.768650**	**19.46657**	**.1649439**	**-.008165**
Stddev	.0057798	.0509	.007726	.04100	.0000422	.000245
%RSD	1.732534	.0336724	.1141477	.2106304	.0255643	3.003251
#1	.3303649	151.0730	6.759981	19.51367	.1649360	-.008337
#2	.3402779	151.1430	6.774810	19.44722	.1649895	-.008274
#3	.3301718	151.0441	6.771160	19.43882	.1649063	-.007884

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.403050**	**.1627979**	**1.278187**	**8.570754**	F **12.24235**	**-.017178**
Stddev	.161115	.0040067	.012111	.107361	.04070	.004006
%RSD	39.97386	2.461158	.9474864	1.252646	.3324762	23.32304
#1	-.522353	.1673837	1.287691	8.451401	12.26486	-.017702
#2	-.219774	.1599741	1.264551	8.659456	12.19537	-.020897
#3	-.467025	.1610361	1.282320	8.601407	12.26683	-.012936

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-01 Acquired: 12/15/2024 22:27:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053169	4.275331	8.900402	.0810935	.7194359	.0150356
Stddev	.0003256	.017576	.073029	.0032462	.0053459	.0004397
%RSD	6.124037	.4110909	.8205182	4.002973	.7430737	2.924309
#1	.0050265	4.293720	8.855213	.0832728	.7148650	.0152271
#2	.0052553	4.258701	8.984655	.0826449	.7253143	.0153470
#3	.0056689	4.273572	8.861339	.0773627	.7181284	.0145326

Elem	Li6707
Units	ppm
Avg	.1011694
Stddev	.0062702
%RSD	6.197718
#1	.0939295
#2	.1047393
#3	.1048396

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2751.644	33348.75	3088.377	2317.810	3199.357
Stddev	11.472	132.63	9.941	7.074	9.996
%RSD	.4169183	.3977174	.3219000	.3052137	.3124296
#1	2760.899	33204.54	3094.255	2311.689	3202.318
#2	2755.224	33465.51	3076.899	2325.555	3207.538
#3	2738.808	33376.20	3093.977	2316.185	3188.216

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-02 Acquired: 12/15/2024 22:31:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0972839**	**.0088882**	**1.611177**	**.0015772**	**.0257436**	**68.68270**
Stddev	.0058046	.0025140	.006649	.0099800	.0018381	.35898
%RSD	5.966673	28.28482	.4126956	632.7825	7.139872	.5226696
#1	.0942127	.0065731	1.617213	-.007546	.0273541	68.29549
#2	.0936602	.0115625	1.604050	.012236	.0261355	68.74813
#3	.1039790	.0085290	1.612268	.000041	.0237412	69.00446

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.310251**	**.0066777**	**.0071832**	**61.74207**	**.1293831**	**.0903990**
Stddev	.007222	.0000837	.0001196	.39195	.0002792	.0004090
%RSD	.5511805	1.252841	1.664451	.6348217	.2157875	.4524551
#1	1.302304	.0065978	.0071697	61.32847	.1290962	.0904514
#2	1.312035	.0066705	.0073089	61.78973	.1296539	.0907793
#3	1.316414	.0067647	.0070709	62.10801	.1293992	.0899663

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4332231**	**148.1359**	**6.177343**	**20.26017**	**.1780154**	**-.007036**
Stddev	.0061003	.9945	.033307	.10759	.0011799	.000773
%RSD	1.408112	.6713524	.5391772	.5310312	.6628253	10.98480
#1	.4351603	147.0036	6.139322	20.20774	.1791314	-.006147
#2	.4381196	148.5360	6.191343	20.18884	.1781342	-.007545
#3	.4263895	148.8680	6.201366	20.38392	.1767805	-.007417

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.229991**	**.1762563**	**1.610312**	**8.561665**	F **13.72492**	**-.013204**
Stddev	.395847	.0052479	.009169	.222949	.03891	.003094
%RSD	172.1145	2.977419	.5693832	2.604038	.2834954	23.43365
#1	-.333121	.1818808	1.620831	8.786809	13.75995	-.016064
#2	.207215	.1714911	1.606095	8.340978	13.68304	-.009920
#3	-.564066	.1753970	1.604010	8.557208	13.73178	-.013627

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-02 Acquired: 12/15/2024 22:31:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047272	4.056691	7.497628	.1569703	.6980624	.0457350
Stddev	.0003269	.018761	.034194	.0007606	.0055268	.0003615
%RSD	6.915871	.4624744	.4560641	.4845751	.7917270	.7903626
#1	.0050680	4.057543	7.459193	.1561458	.6917002	.0460292
#2	.0046976	4.037519	7.509014	.1576446	.7008116	.0458444
#3	.0044161	4.075012	7.524675	.1571206	.7016754	.0453315

Elem	Li6707
Units	ppm
Avg	.1052990
Stddev	.0029338
%RSD	2.786198
#1	.1019155
#2	.1068458
#3	.1071358

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2746.604	33623.26	3101.276	2333.064	3168.938
Stddev	2.668	209.81	13.295	9.019	4.119
%RSD	.0971324	.6239902	.4286910	.3865563	.1299783
#1	2743.603	33859.32	3116.133	2343.419	3164.367
#2	2748.708	33458.04	3090.500	2328.845	3172.363
#3	2747.500	33552.42	3097.197	2326.929	3170.085

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-03 Acquired: 12/15/2024 22:35:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0984190**	**.0099199**	**.9453780**	**.0020789**	**.0253098**	**65.87389**
Stddev	.0019631	.0009406	.0045913	.0039422	.0026433	.09264
%RSD	1.994650	9.481572	.4856624	189.6340	10.44357	.1406280
#1	.0983916	.0092142	.9460898	.0044703	.0223522	65.76788
#2	.0964697	.0095579	.9404723	.0042375	.0261357	65.91453
#3	.1003957	.0109877	.9495718	-.002471	.0274415	65.93926

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.249449**	**.0062872**	**.0065116**	**63.85632**	**.1180690**	**.0889114**
Stddev	.003963	.0000355	.0001084	.13225	.0007922	.0007259
%RSD	.3171657	.5641676	1.665321	.2070978	.6709958	.8164823
#1	1.245037	.0062978	.0065990	63.86739	.1186738	.0893638
#2	1.250604	.0063162	.0065455	63.71889	.1183610	.0880741
#3	1.252706	.0062477	.0063902	63.98268	.1171722	.0892964

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3225095**	**146.8604**	**6.470020**	**22.06159**	**.1521890**	**-.008775**
Stddev	.0068220	.3140	.023592	.15113	.0011425	.001172
%RSD	2.115289	.2138198	.3646349	.6850344	.7506964	13.35845
#1	.3234697	146.5694	6.443209	21.91153	.1517573	-.008208
#2	.3152583	147.1933	6.487604	22.05948	.1513252	-.007994
#3	.3288006	146.8184	6.479247	22.21376	.1534844	-.010123

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0074124**	**.1740976**	**1.067275**	**7.148692**	F **11.85630**	**-.013211**
Stddev	.4373024	.0051111	.015100	.121093	.03508	.001683
%RSD	5899.576	2.935790	1.414818	1.693922	.2959073	12.74135
#1	.0579311	.1763906	1.054850	7.008871	11.85430	-.013921
#2	.4172615	.1682415	1.062893	7.217521	11.82226	-.014424
#3	-.452955	.1776607	1.084081	7.219684	11.89234	-.011289

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-03 Acquired: 12/15/2024 22:35:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039270	3.212864	8.224322	.0704238	.6477648	.0467659
Stddev	.0002715	.017458	.019312	.0014013	.0041183	.0003239
%RSD	6.913271	.5433754	.2348136	1.989766	.6357723	.6926491
#1	.0039039	3.215629	8.225137	.0705458	.6466984	.0466098
#2	.0042092	3.194188	8.243213	.0689656	.6442846	.0465496
#3	.0036678	3.228773	8.204616	.0717602	.6523114	.0471383

Elem	Li6707
Units	ppm
Avg	.1077015
Stddev	.0027158
%RSD	2.521573
#1	.1102940
#2	.1048773
#3	.1079332

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2770.739	33585.07	3106.720	2340.074	3232.704
Stddev	10.698	88.95	3.889	11.705	8.937
%RSD	.3861167	.2648365	.1251836	.5001940	.2764564
#1	2758.477	33613.98	3108.216	2343.283	3222.856
#2	2778.164	33655.96	3102.305	2349.840	3240.299
#3	2775.576	33485.26	3109.639	2327.099	3234.957

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-04 Acquired: 12/15/2024 22:39:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1171705**	**.0171033**	**.6323914**	**.0036379**	**.0265440**	**70.84916**
Stddev	.0040234	.0034487	.0005722	.0052214	.0015711	.08763
%RSD	3.433832	20.16392	.0904829	143.5301	5.918788	.1236820
#1	.1206787	.0140100	.6329471	.0093957	.0282946	70.93178
#2	.1127787	.0208219	.6318040	.0023076	.0260807	70.85844
#3	.1180543	.0164781	.6324230	-.000790	.0252567	70.75726

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.551076**	**.0063387**	**.0064160**	**64.35486**	**.1047523**	**.1125873**
Stddev	.002785	.0001918	.0000803	.07225	.0041616	.0008753
%RSD	.1795564	3.025438	1.250916	.1122647	3.972750	.7774342
#1	1.552978	.0063922	.0065001	64.28223	.0999622	.1115942
#2	1.552371	.0064981	.0063403	64.42672	.1074779	.1129214
#3	1.547880	.0061259	.0064076	64.35562	.1068169	.1132464

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2640845**	**165.1108**	**9.886914**	**22.80903**	**.1420345**	**-.010747**
Stddev	.0054744	.2895	.031335	.10191	.0007186	.001646
%RSD	2.072984	.1753415	.3169343	.4468083	.5059092	15.31737
#1	.2612590	165.3297	9.894823	22.71162	.1428089	-.009106
#2	.2606003	165.2201	9.913536	22.80055	.1413894	-.012398
#3	.2703944	164.7825	9.852382	22.91492	.1419052	-.010738

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.048821**	**.1725976**	**.8551815**	**6.593720**	F **15.03828**	**-.013581**
Stddev	.218088	.0105882	.0143912	.094794	.04790	.003820
%RSD	446.7088	6.134633	1.682828	1.437637	.3185016	28.12785
#1	-.231369	.1839021	.8386183	6.504388	15.00563	-.009921
#2	-.107780	.1709784	.8622994	6.693164	15.01595	-.017543
#3	.192685	.1629122	.8646267	6.583608	15.09327	-.013277

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-04 Acquired: 12/15/2024 22:39:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043819	2.924561	7.296006	.0500188	.5436697	.0257341
Stddev	.0008352	.020744	.072590	.0014505	.0041955	.0002473
%RSD	19.05944	.7093043	.9949329	2.899839	.7716995	.9610581
#1	.0044466	2.902557	7.243719	.0497434	.5410729	.0257051
#2	.0035163	2.927365	7.378885	.0515873	.5485100	.0259947
#3	.0051829	2.943760	7.265415	.0487258	.5414263	.0255026

Elem	Li6707
Units	ppm
Avg	.1134071
Stddev	.0026401
%RSD	2.327994
#1	.1132688
#2	.1108388
#3	.1161136

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2860.376	34883.69	3229.558	2428.615	3196.591
Stddev	8.031	610.39	8.047	39.893	6.718
%RSD	.2807657	1.749788	.2491761	1.642627	.2101621
#1	2852.028	35550.07	3225.047	2472.220	3192.435
#2	2868.048	34351.68	3224.777	2393.951	3204.341
#3	2861.051	34749.33	3238.849	2419.673	3192.996

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-05 Acquired: 12/15/2024 22:42:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0787260	.0090848	.3248573	-.001853	.0267069	65.74693	1.016142
Stddev	.0056273	.0041178	.0026180	.007555	.0034225	.31350	.006177
%RSD	7.148004	45.32648	.8058762	407.6807	12.81514	.4768329	.6078948
#1	.0775181	.0137422	.3218751	-.006865	.0296145	65.38495	1.009017
#2	.0848592	.0075856	.3267768	.006837	.0229351	65.93173	1.019994
#3	.0738007	.0059266	.3259200	-.005532	.0275712	65.92410	1.019414

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0061168	.0046020	60.68805	.0994321	.0884853	.2350336	157.6049
Stddev	.0001804	.0000513	.15635	.0007383	.0005508	.0038081	.8179
%RSD	2.948754	1.115422	.2576286	.7425070	.6225373	1.620227	.5189420
#1	.0059195	.0046200	60.51253	.1002561	.0881639	.2375981	156.6605
#2	.0061577	.0046419	60.73917	.0992093	.0881707	.2368448	158.0729
#3	.0062732	.0045441	60.81243	.0988308	.0891214	.2306580	158.0812

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.587190	26.78369	.1303060	-.010589	.5378745	.1498696	.6848977
Stddev	.043101	.20329	.0011230	.000081	.4525847	.0029588	.0060961
%RSD	.7714228	.7589936	.8618321	.7636829	84.14318	1.974238	.8900780
#1	5.537830	26.57081	.1298810	-.010657	.9256554	.1481341	.6822074
#2	5.606362	26.97578	.1315795	-.010611	.0405827	.1481886	.6918762
#3	5.617379	26.80449	.1294575	-.010499	.6473854	.1532859	.6806096

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.852697	8.781109	-.016153	.0031535	1.914645	9.302591	.0274731
Stddev	.217938	.031425	.001793	.0001891	.010121	.057730	.0017833
%RSD	3.723722	.3578756	11.09745	5.998272	.5285954	.6205756	6.490943
#1	5.602806	8.746825	-.018163	.0031147	1.909906	9.237756	.0266751
#2	6.003389	8.787953	-.015577	.0029867	1.907764	9.348426	.0295161
#3	5.951896	8.808547	-.014720	.0033590	1.926266	9.321590	.0262283

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-05 Acquired: 12/15/2024 22:42:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7096703	-.021182	.1041977
Stddev	.0046807	.000317	.0042971
%RSD	.6595593	1.498025	4.124035
#1	.7106800	-.021003	.1083021
#2	.7045672	-.020995	.1045601
#3	.7137638	-.021549	.0997308

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2797.510	34057.45	3169.390	2365.235	3145.274
Stddev	10.990	200.19	14.530	12.881	14.983
%RSD	.3928524	.5877964	.4584596	.5446168	.4763636
#1	2807.110	33890.53	3185.729	2360.071	3160.868
#2	2799.899	34002.43	3164.526	2355.737	3143.969
#3	2785.522	34279.40	3157.916	2379.897	3130.987

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-06 Acquired: 12/15/2024 22:46:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0623205**	**.0255702**	**1.474217**	**-.021986**	**.0161549**	**63.52170**	**.9430249**
Stddev	.0045620	.0019118	.005883	.005960	.0010289	.23045	.0063173
%RSD	7.320258	7.476692	.3990386	27.11062	6.368672	.3627901	.6698934
#1	.0575172	.0239122	1.476358	-.016196	.0168459	63.37944	.9396695
#2	.0628491	.0276614	1.467564	-.028104	.0149725	63.78758	.9503118
#3	.0665952	.0251370	1.478729	-.021657	.0166464	63.39807	.9390933

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0056546**	**.0047549**	**258.2369**	**.0988016**	**.1028052**	**1.214537**	**163.4468**
Stddev	.0001287	.0000533	.9955	.0005914	.0004239	.014558	.7544
%RSD	2.275212	1.121194	.3855129	.5986227	.4123073	1.198627	.4615657
#1	.0055270	.0048151	257.3557	.0994842	.1027592	1.205119	162.8401
#2	.0057843	.0047361	259.3168	.0984799	.1032502	1.231304	164.2915
#3	.0056524	.0047136	258.0382	.0984408	.1024062	1.207187	163.2087

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.113944**	**52.29120**	**.1556807**	**-.012482**	**.4495048**	**.1263685**	**6.906478**
Stddev	.049021	.18705	.0004066	.000393	.0945682	.0106166	.064379
%RSD	.6041632	.3577119	.2611761	3.147434	21.03830	8.401279	.9321510
#1	8.109037	52.32537	.1552625	-.012688	.3571319	.1325048	6.838768
#2	8.165235	52.45882	.1560746	-.012728	.5461251	.1141095	6.966906
#3	8.067561	52.08942	.1557051	-.012029	.4452574	.1324912	6.913761

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.994783**	**8.083288**	**-.012528**	**.0020800**	**1.467217**	**7.943111**	**.5932700**
Stddev	.084308	.017945	.002289	.0002519	.004886	.042105	.0017430
%RSD	1.687920	.2219962	18.26908	12.11133	.3329774	.5300813	.2937872
#1	4.951063	8.075969	-.011207	.0022758	1.463121	7.958936	.5912606
#2	5.091971	8.070159	-.015171	.0021684	1.465906	7.975010	.5941762
#3	4.941317	8.103735	-.011207	.0017958	1.472625	7.895386	.5943732

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-06 Acquired: 12/15/2024 22:46:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6712576	.1377961	.1250262
Stddev	.0043299	.0013221	.0007488
%RSD	.6450476	.9594513	.5988941
#1	.6718365	.1383083	.1258887
#2	.6752689	.1387854	.1246475
#3	.6666673	.1362945	.1245424

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2771.775	33610.74	3197.659	2331.702	3029.773
Stddev	6.525	107.06	13.744	9.088	4.020
%RSD	.2354266	.3185229	.4298227	.3897425	.1326730
#1	2778.257	33734.35	3188.518	2340.623	3033.405
#2	2771.861	33548.07	3190.994	2322.456	3030.460
#3	2765.207	33549.78	3213.465	2332.026	3025.455

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-07 Acquired: 12/15/2024 22:50:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0598717**	**.0336566**	**.1800379**	**-.036621**	**.0068665**	**39.88854**
Stddev	.0053408	.0026025	.0012400	.001926	.0027411	.14588
%RSD	8.920449	7.732422	.6887145	5.258888	39.91956	.3657308
#1	.0590137	.0309162	.1806052	-.037572	.0077634	40.05630
#2	.0550119	.0360948	.1808927	-.034405	.0037894	39.81795
#3	.0655896	.0339586	.1786158	-.037887	.0090469	39.79138

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6397719**	**.0038439**	**.0037349**	F **942.4037**	**.0650822**	**.1105351**
Stddev	.0023697	.0002076	.0000544	2.8130	.0004078	.0005916
%RSD	.3703939	5.399971	1.456264	.2984911	.6265952	.5351911
#1	.6418538	.0038675	.0036904	945.6478	.0648188	.1108249
#2	.6371932	.0040387	.0037187	940.9222	.0655519	.1109260
#3	.6402686	.0036255	.0037955	940.6412	.0648758	.1098546

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2674654**	**133.7155**	**7.790749**	**188.3496**	**.1216448**	**-.010979**
Stddev	.0040720	.4582	.029984	.7848	.0010786	.001457
%RSD	1.522434	.3426473	.3848603	.4166842	.8866694	13.26954
#1	.2631107	134.0231	7.825371	189.2549	.1225848	-.009298
#2	.2681071	133.9346	7.773451	187.9341	.1204672	-.011751
#3	.2711785	133.1890	7.773425	187.8600	.1218823	-.011886

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3780458**	**.1069299**	**.3686580**	**5.010631**	**7.934814**	**.0018785**
Stddev	.1479254	.0171404	.0022215	.041599	.020142	.0023978
%RSD	39.12896	16.02961	.6025960	.8302115	.2538441	127.6460
#1	.2094729	.0925940	.3660936	5.009113	7.938548	.0003083
#2	.4384722	.1022803	.3698847	4.969812	7.913067	.0046386
#3	.4861924	.1259155	.3699957	5.052968	7.952829	.0006886

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-07 Acquired: 12/15/2024 22:50:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012472	2.026320	6.301993	.0238925	1.171323	.7805190
Stddev	.0002919	.002510	.037369	.0022901	.004324	.0025782
%RSD	23.40658	.1238476	.5929760	9.585208	.3691480	.3303215
#1	.0011827	2.025765	6.338801	.0223385	1.176248	.7834823
#2	.0015659	2.024134	6.303092	.0265225	1.169571	.7787899
#3	.0009928	2.029060	6.264087	.0228165	1.168150	.7792847

Elem	Li6707
Units	ppm
Avg	.1455761
Stddev	.0034602
%RSD	2.376933
#1	.1478247
#2	.1473120
#3	.1415915

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2503.604	30359.49	2981.008	2102.927	2703.189
Stddev	7.378	87.91	23.738	4.365	3.682
%RSD	.2946796	.2895543	.7963050	.2075538	.1362198
#1	2512.072	30381.00	2957.561	2104.042	2707.040
#2	2500.180	30262.82	2980.435	2098.113	2702.822
#3	2498.561	30434.64	3005.027	2106.626	2699.704

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-08 Acquired: 12/15/2024 22:54:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ7D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0621507**	**.0346016**	**.1778323**	**-.034400**	**.0088739**	**39.84837**
Stddev	.0040906	.0020627	.0010383	.003143	.0026878	.14730
%RSD	6.581739	5.961318	.5838456	9.137805	30.28883	.3696570
#1	.0609064	.0337711	.1767091	-.036387	.0117890	39.90536
#2	.0588267	.0369501	.1787569	-.030776	.0064939	39.68109
#3	.0667190	.0330836	.1780309	-.036037	.0083389	39.95866

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6356219**	**.0039790**	**.0035182**	F **939.0403**	**.0640637**	**.1086138**
Stddev	.0018149	.0001313	.0000510	2.7697	.0005871	.0008062
%RSD	.2855361	3.298918	1.449364	.2949550	.9163629	.7422804
#1	.6361365	.0041161	.0034664	941.1117	.0640110	.1076933
#2	.6336052	.0038545	.0035683	935.8943	.0635047	.1089539
#3	.6371239	.0039663	.0035199	940.1149	.0646753	.1091943

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2718812**	**133.7299**	**7.803371**	**187.3770**	**.1195737**	**-.009844**
Stddev	.0100338	.5809	.021996	.9924	.0003935	.000631
%RSD	3.690514	.4343581	.2818814	.5296523	.3290571	6.409424
#1	.2771591	133.3778	7.785578	186.7592	.1191267	-.010188
#2	.2781744	133.4117	7.796571	186.8501	.1198677	-.010229
#3	.2603100	134.4004	7.827964	188.5218	.1197267	-.009116

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1879463**	**.1068214**	**.3559728**	**5.118860**	**7.876117**	**.0022329**
Stddev	.3547482	.0104452	.0073911	.121720	.066051	.0025620
%RSD	188.7498	9.778143	2.076302	2.377882	.8386303	114.7414
#1	.3173114	.1104278	.3640327	5.145713	7.803153	.0004709
#2	-.213329	.0950510	.3543730	4.985955	7.893362	.0051719
#3	.459857	.1149855	.3495125	5.224911	7.931835	.0010558

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-08 Acquired: 12/15/2024 22:54:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ7D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005765	2.005522	6.478513	.0223572	1.177383	.7788116
Stddev	.0006605	.012584	.037619	.0002922	.007399	.0038758
%RSD	114.5735	.6274811	.5806806	1.306728	.6284662	.4976581
#1	.0007627	1.991629	6.443033	.0221769	1.171878	.7773418
#2	-.000157	2.008780	6.517958	.0226942	1.174476	.7758857
#3	.001124	2.016157	6.474549	.0222004	1.185794	.7832073

Elem	Li6707
Units	ppm
Avg	.1513254
Stddev	.0003402
%RSD	.2247995
#1	.1511967
#2	.1517111
#3	.1510683

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2534.140	30639.92	3004.333	2128.531	2742.329
Stddev	16.323	142.53	13.262	12.635	23.004
%RSD	.6441151	.4651878	.4414137	.5935838	.8388325
#1	2552.119	30634.57	3017.049	2134.517	2765.251
#2	2530.051	30785.05	3005.364	2137.059	2742.492
#3	2520.250	30500.13	2990.586	2114.015	2719.244

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-07LX5 Acquired: 12/15/2024 22:58:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ7L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0091444	.0211622	.0440733	-.033279	-.013562	8.606025	.1398553
Stddev	.0064423	.0038230	.0009297	.003363	.003351	.021736	.0009907
%RSD	70.45090	18.06523	2.109524	10.10415	24.70694	.2525619	.7083458
#1	.0158771	.0181273	.0436793	-.033693	-.009881	8.583059	.1393416
#2	.0030383	.0199034	.0434054	-.036416	-.016434	8.608740	.1392270
#3	.0085178	.0254559	.0451351	-.029729	-.014370	8.626275	.1409973

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008747	.0006208	208.5372	.0152166	.0428580	.0606966	30.36925
Stddev	.0001325	.0001623	.1394	.0016036	.0003935	.0036984	.15799
%RSD	15.15100	26.14343	.0668301	10.53874	.9181175	6.093217	.5202349
#1	.0007537	.0006154	208.3855	.0136811	.0430688	.0572475	30.35738
#2	.0010164	.0007857	208.5666	.0168806	.0431011	.0646019	30.53284
#3	.0008542	.0004612	208.6595	.0150881	.0424040	.0602403	30.21752

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.770247	42.37365	.0209592	-.001611	-.777145	.0119455	.0704927
Stddev	.005507	.08759	.0005057	.000546	.464411	.0060924	.0059180
%RSD	.3111044	.2067085	2.412742	33.89758	59.75868	51.00172	8.395159
#1	1.764562	42.32695	.0205696	-.001045	-1.08903	.0063664	.0772853
#2	1.775557	42.47469	.0215307	-.001653	-.24341	.0110238	.0677427
#3	1.770623	42.31930	.0207774	-.002134	-.99899	.0184462	.0664501

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.410732	1.435190	-.003791	.0004970	.3743197	1.440313	.0030962
Stddev	.112132	.003302	.000308	.0002498	.0073921	.019747	.0008274
%RSD	7.948478	.2300486	8.124824	50.25194	1.974812	1.371044	26.72204
#1	1.440067	1.437752	-.003533	.0006988	.3825549	1.436994	.0039760
#2	1.505279	1.431464	-.004132	.0002177	.3721463	1.461510	.0023339
#3	1.286848	1.436353	-.003708	.0005746	.3682579	1.422436	.0029785

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-07LX5 Acquired: 12/15/2024 22:58:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ7L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2579063	.1714134	.0382031
Stddev	.0007458	.0001082	.0026507
%RSD	.2891640	.0631071	6.938368
#1	.2571482	.1712899	.0351460
#2	.2579315	.1714586	.0396033
#3	.2586391	.1714916	.0398601

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2443.599	28642.00	2756.294	1989.468	3144.267
Stddev	4.987	1349.87	17.201	92.157	6.133
%RSD	.2040705	4.712899	.6240639	4.632243	.1950429
#1	2443.041	29388.31	2772.973	2041.218	3143.853
#2	2438.915	27083.77	2738.615	1883.067	3138.351
#3	2448.842	29453.93	2757.295	2044.118	3150.596

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-09 Acquired: 12/15/2024 23:02:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ7S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1410570**	**.1279503**	**.2145914**	**.1236868**	**.1629339**	**42.75259**
Stddev	.0064024	.0045129	.0041858	.0027428	.0039344	.06335
%RSD	4.538881	3.527038	1.950586	2.217495	2.414752	.1481849
#1	.1341328	.1228770	.2194147	.1268515	.1592865	42.69211
#2	.1422758	.1315175	.2119106	.1222098	.1671033	42.81847
#3	.1467624	.1294564	.2124488	.1219990	.1624120	42.74720

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.258617**	**.0927160**	**.1014725**	F **925.4248**	**.4295652**	**1.084316**
Stddev	.011428	.0006994	.0002661	1.1658	.0029071	.003151
%RSD	.2683505	.7543699	.2622911	.1259747	.6767543	.2905925
#1	4.258685	.0934058	.1017786	925.8971	.4329125	1.084009
#2	4.270011	.0927349	.1012958	926.2804	.4276731	1.081329
#3	4.247155	.0920074	.1013430	924.0970	.4281099	1.087609

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6802632**	**133.5361**	**8.548265**	**184.6690**	**1.111094**	**.0624179**
Stddev	.0016573	.2294	.012062	.5240	.001543	.0007750
%RSD	.2436294	.1718262	.1411093	.2837597	.1388743	1.241638
#1	.6790937	133.5808	8.551473	184.3571	1.111340	.0617689
#2	.6795360	133.7399	8.558398	185.2740	1.109442	.0632760
#3	.6821597	133.2876	8.534922	184.3760	1.112499	.0622088

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3674921**	**1.027838**	**1.148047**	**5.161910**	**7.655586**	**-.000146**
Stddev	.0993249	.008218	.018776	.174136	.019658	.001202
%RSD	27.02776	.7995222	1.635437	3.373483	.2567845	824.4479
#1	.4818353	1.018508	1.155919	5.353859	7.667384	.001116
#2	.3180435	1.034000	1.161605	5.117801	7.632892	-.000276
#3	.3025973	1.031007	1.126616	5.014069	7.666481	-.001278

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-09 Acquired: 12/15/2024 23:02:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ7S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008010	1.949472	6.331632	.0231915	1.154256	.7624730
Stddev	.0003442	.004870	.027144	.0008797	.008846	.0024190
%RSD	42.97448	.2498233	.4286999	3.793231	.7663393	.3172610
#1	.0004313	1.949140	6.360143	.0241958	1.157481	.7609999
#2	.0011123	1.944775	6.328652	.0228213	1.161037	.7652648
#3	.0008593	1.954499	6.306102	.0225573	1.144251	.7611542

Elem	Li6707
Units	ppm
Avg	.1518758
Stddev	.0036860
%RSD	2.426998
#1	.1504660
#2	.1560587
#3	.1491028

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2490.873	30409.68	2966.351	2103.244	2714.455
Stddev	3.681	153.71	12.439	13.727	4.224
%RSD	.1477777	.5054616	.4193288	.6526776	.1556039
#1	2493.207	30422.55	2959.394	2102.630	2717.659
#2	2492.782	30556.54	2980.712	2117.269	2716.038
#3	2486.629	30249.94	2958.948	2089.834	2709.668

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-10 Acquired: 12/15/2024 23:05:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKK5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0893559**	**.0118093**	**1.025060**	**.0066807**	**.0280389**	**71.24245**
Stddev	.0040268	.0024841	.005448	.0063460	.0020452	.29531
%RSD	4.506457	21.03515	.5315221	94.99031	7.294026	.4145144
#1	.0893722	.0098045	1.020042	.0113516	.0297903	71.29219
#2	.0853210	.0110350	1.024284	.0092350	.0285352	70.92543
#3	.0933745	.0145883	1.030856	-.000544	.0257913	71.50973

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.177271**	**.0062808**	**.0071143**	**52.67680**	**.1173414**	**.0893827**
Stddev	.003590	.0001495	.0001395	.32032	.0004002	.0003488
%RSD	.3049751	2.379668	1.960690	.6080900	.3410339	.3902491
#1	1.177723	.0061245	.0069592	52.68143	.1175432	.0892447
#2	1.173476	.0062954	.0072295	52.35419	.1168805	.0891241
#3	1.180614	.0064224	.0071541	52.99478	.1176005	.0897795

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2703118**	**153.9175**	**8.175360**	**24.20593**	**.1834157**	**-.009344**
Stddev	.0025016	.4710	.037456	.12491	.0010801	.000363
%RSD	.9254530	.3060340	.4581576	.5160488	.5888844	3.884550
#1	.2729949	153.8390	8.170180	24.15148	.1821890	-.009715
#2	.2698970	153.4906	8.140763	24.11747	.1838337	-.009326
#3	.2680436	154.4229	8.215136	24.34882	.1842242	-.008990

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.366210**	**.1500673**	**1.369490**	**5.709960**	F **11.83483**	**-.015970**
Stddev	.450677	.0102617	.012800	.036072	.04296	.002172
%RSD	123.0652	6.838049	.9346357	.6317371	.3629680	13.60067
#1	.153831	.1516462	1.383516	5.701509	11.80276	-.016577
#2	-.609566	.1391077	1.366513	5.678864	11.81810	-.013559
#3	-.642896	.1594480	1.358442	5.749508	11.88364	-.017774

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-10 Acquired: 12/15/2024 23:05:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKK5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0037016	4.383452	7.001212	.0557464	.6962654	-.012952
Stddev	.0002869	.025052	.089155	.0010060	.0058919	.000027
%RSD	7.749549	.5715193	1.273419	1.804664	.8462107	.2051418
#1	.0040223	4.360445	6.984470	.0568886	.6959971	-.012953
#2	.0034694	4.379770	6.921615	.0549921	.6905122	-.012925
#3	.0036130	4.410142	7.097551	.0553583	.7022868	-.012978

Elem	Li6707
Units	ppm
Avg	.1202130
Stddev	.0046971
%RSD	3.907315
#1	.1255404
#2	.1184309
#3	.1166678

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2737.926	33352.06	3061.762	2311.061	3176.746
Stddev	7.490	164.43	32.064	7.586	9.785
%RSD	.2735563	.4930066	1.047249	.3282468	.3080042
#1	2731.116	33163.25	3058.104	2302.945	3177.951
#2	2745.948	33429.19	3095.498	2312.263	3185.872
#3	2736.714	33463.74	3031.683	2317.973	3166.415

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-11 Acquired: 12/15/2024 23:09:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKK6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0886739**	**.0148989**	**.9365775**	**.0078473**	**.0230633**	**68.87640**
Stddev	.0013367	.0026470	.0024759	.0016206	.0029347	.13753
%RSD	1.507388	17.76628	.2643587	20.65194	12.72459	.1996760
#1	.0901708	.0172512	.9339586	.0095263	.0201581	69.03481
#2	.0882510	.0120326	.9388800	.0062922	.0260266	68.80693
#3	.0875997	.0154128	.9368938	.0077234	.0230050	68.78747

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.212728**	**.0060453**	**.0062198**	**54.38606**	**.1062872**	**.0853696**
Stddev	.004314	.0000992	.0000760	.25692	.0008306	.0011066
%RSD	.3556936	1.641190	1.222173	.4724026	.7814689	1.296262
#1	1.217610	.0060380	.0062960	54.49900	.1054176	.0860686
#2	1.211144	.0061480	.0061440	54.56716	.1070724	.0840937
#3	1.209431	.0059500	.0062194	54.09201	.1063717	.0859465

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2809748**	**148.4135**	**7.895692**	**22.96624**	**.1636372**	**-.009441**
Stddev	.0162026	.7809	.031331	.12227	.0004772	.000322
%RSD	5.766567	.5261612	.3968130	.5323711	.2915958	3.407551
#1	.2789806	149.2807	7.930067	23.10353	.1638211	-.009189
#2	.2980821	148.1940	7.888271	22.92612	.1630955	-.009329
#3	.2658615	147.7659	7.868737	22.86908	.1639951	-.009803

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4753124**	**.1374317**	**1.323702**	**3.222189**	F **12.60006**	**-.018582**
Stddev	.4916955	.0079573	.011897	.157434	.02793	.001969
%RSD	103.4468	5.789974	.8987312	4.885938	.2216725	10.59701
#1	1.022195	.1465659	1.318983	3.111840	12.56898	-.017728
#2	.333987	.1320027	1.337234	3.402475	12.60815	-.017183
#3	.069756	.1337265	1.314889	3.152253	12.62305	-.020833

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-11 Acquired: 12/15/2024 23:09:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKK6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040888	3.947272	6.349739	.0865761	.5858764	.0095877
Stddev	.0002545	.010274	.057466	.0013210	.0079039	.0001252
%RSD	6.224564	.2602873	.9050103	1.525776	1.349073	1.305918
#1	.0038145	3.938839	6.414861	.0854026	.5948936	.0096458
#2	.0041348	3.944262	6.306148	.0880067	.5825877	.0094440
#3	.0043172	3.958715	6.328208	.0863190	.5801477	.0096733

Elem	Li6707
Units	ppm
Avg	.1145985
Stddev	.0031304
%RSD	2.731589
#1	.1157203
#2	.1110618
#3	.1170133

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2762.934	33595.88	3101.532	2325.043	3219.015
Stddev	8.274	169.69	23.849	11.603	5.950
%RSD	.2994493	.5050973	.7689400	.4990658	.1848305
#1	2754.305	33754.01	3077.969	2329.289	3212.642
#2	2770.800	33416.61	3100.970	2311.914	3219.979
#3	2763.698	33617.02	3125.656	2333.925	3224.424

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-12 Acquired: 12/15/2024 23:13:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKK7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0672659	.0131676	.5131765	.0044306	.0229696	67.02803
Stddev	.0039235	.0021509	.0010334	.0055082	.0010590	.12463
%RSD	5.832781	16.33446	.2013722	124.3220	4.610402	.1859307
#1	.0689585	.0123071	.5140272	.0088970	.0240304	67.10158
#2	.0627802	.0115802	.5120265	-.001724	.0219125	67.09838
#3	.0700589	.0156154	.5134759	.006119	.0229658	66.88414

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.160746	.0057752	.0050472	55.94896	.0998708	.0887586
Stddev	.001076	.0001628	.0001261	.17185	.0004875	.0003687
%RSD	.0927074	2.818088	2.497404	.3071560	.4881314	.4154286
#1	1.161835	.0058766	.0050050	56.01252	.1000997	.0884342
#2	1.160721	.0055875	.0049476	56.07997	.1002017	.0891596
#3	1.159683	.0058615	.0051889	55.75438	.0993110	.0886820

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1916384	154.0903	8.183429	25.21533	.1457203	-.010709
Stddev	.0006597	.2533	.001647	.08407	.0007620	.000780
%RSD	.3442230	.1643577	.0201311	.3334203	.5229027	7.286311
#1	.1919362	154.2658	8.185316	25.26682	.1462307	-.009838
#2	.1920967	154.2051	8.182689	25.11831	.1448444	-.011345
#3	.1908824	153.8000	8.182281	25.26086	.1460857	-.010944

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.110943	.1409300	1.006488	2.953465	F 11.62711	-.022565
Stddev	.620037	.0029269	.002983	.204958	.02377	.002126
%RSD	558.8782	2.076833	.2963983	6.939588	.2044024	9.419846
#1	-.629506	.1381981	1.003350	3.046915	11.60621	-.020378
#2	-.279172	.1405729	1.006828	2.718436	11.62216	-.022694
#3	.575848	.1440191	1.009287	3.095043	11.65296	-.024623

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-12 Acquired: 12/15/2024 23:13:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKK7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026966	2.472481	7.111776	.0296784	.6581910	-.017676
Stddev	.0000654	.013068	.028727	.0016644	.0019721	.000083
%RSD	2.423744	.5285183	.4039359	5.608060	.2996237	.4722049
#1	.0026223	2.462317	7.081910	.0282550	.6565894	-.017687
#2	.0027222	2.467904	7.114208	.0315084	.6603937	-.017753
#3	.0027453	2.487221	7.139210	.0292718	.6575899	-.017587

Elem	Li6707
Units	ppm
Avg	.1138752
Stddev	.0038269
%RSD	3.360613
#1	.1140904
#2	.1099452
#3	.1175900

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2868.762	34818.34	3236.256	2424.480	3297.363
Stddev	8.845	70.03	6.111	6.412	7.452
%RSD	.3083294	.2011233	.1888368	.2644884	.2259881
#1	2861.431	34844.71	3236.957	2431.121	3290.891
#2	2878.586	34738.96	3241.986	2418.324	3305.510
#3	2866.268	34871.36	3229.824	2423.996	3295.689

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-13 Acquired: 12/15/2024 23:17:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKL5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0929610	.0212932	.9341226	-.002554	.0253922	78.55219
Stddev	.0038152	.0015075	.0048540	.001516	.0022824	.07755
%RSD	4.104098	7.079871	.5196267	59.34890	8.988489	.0987192
#1	.0964964	.0229541	.9331563	-.001616	.0241362	78.51731
#2	.0934695	.0209141	.9298244	-.001743	.0280267	78.64105
#3	.0889170	.0200114	.9393870	-.004303	.0240137	78.49820

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.667132	.0068529	.0067423	109.6062	.1131038	.1085420
Stddev	.003739	.0000904	.0000399	.0319	.0004253	.0007325
%RSD	.2242884	1.318718	.5911365	.0290676	.3760473	.6748911
#1	1.663573	.0068380	.0067370	109.6376	.1126600	.1086035
#2	1.671028	.0069497	.0067054	109.6071	.1135079	.1077807
#3	1.666795	.0067708	.0067846	109.5739	.1131436	.1092419

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3391131	168.6951	8.690927	33.70013	.1658527	-.009635
Stddev	.0048472	.1380	.014611	.08347	.0001376	.001388
%RSD	1.429365	.0817838	.1681154	.2476948	.0829626	14.40426
#1	.3388372	168.6297	8.677288	33.62774	.1658321	-.009768
#2	.3440922	168.8536	8.706346	33.79144	.1657266	-.010952
#3	.3344097	168.6020	8.689148	33.68121	.1659994	-.008186

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3667574	.1621428	1.097809	6.840046	F 16.31428	.0090992
Stddev	.1701627	.0122140	.010850	.112664	.04245	.0011566
%RSD	46.39652	7.532846	.9883515	1.647123	.2601871	12.71081
#1	.5254237	.1487846	1.109621	6.950721	16.31728	.0094488
#2	.1870546	.1649039	1.095521	6.843926	16.27042	.0078081
#3	.3877939	.1727399	1.088285	6.725493	16.35515	.0100406

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-13 Acquired: 12/15/2024 23:17:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKL5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049446	4.585259	9.823009	.1225640	.6798491	.0730641
Stddev	.0003170	.021438	.073360	.0030811	.0036610	.0004924
%RSD	6.411319	.4675449	.7468205	2.513842	.5385039	.6739695
#1	.0052999	4.574084	9.772416	.1202135	.6763263	.0724959
#2	.0046905	4.571716	9.907144	.1214264	.6795868	.0733299
#3	.0048435	4.609975	9.789466	.1260522	.6836342	.0733664

Elem	Li6707
Units	ppm
Avg	.1351780
Stddev	.0061493
%RSD	4.549065
#1	.1301699
#2	.1420414
#3	.1333228

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2763.611	33589.15	3148.638	2345.442	3126.042
Stddev	3.559	268.73	20.672	23.847	4.629
%RSD	.1287668	.8000389	.6565510	1.016747	.1480797
#1	2764.322	33484.72	3168.155	2334.257	3126.313
#2	2766.761	33388.31	3126.977	2329.244	3130.529
#3	2759.751	33894.41	3150.783	2372.826	3121.283

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-14 Acquired: 12/15/2024 23:21:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKL6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0436625	.0251278	.2755023	-.015784	.0163941	70.44852
Stddev	.0062771	.0007070	.0027687	.006876	.0014631	.68678
%RSD	14.37629	2.813746	1.004951	43.55979	8.924388	.9748723
#1	.0497113	.0253350	.2768632	-.008597	.0147444	70.65460
#2	.0371797	.0257080	.2723166	-.022299	.0169037	71.00867
#3	.0440964	.0243403	.2773271	-.016456	.0175342	69.68230

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.424159	.0053015	.0049996	161.2495	.0987105	.0979011
Stddev	.015808	.0001781	.0000628	1.3896	.0002679	.0000535
%RSD	1.109975	3.359821	1.256447	.8617514	.2714216	.0546823
#1	1.428447	.0053549	.0049971	161.7276	.0990155	.0979209
#2	1.437380	.0054468	.0049381	162.3368	.0985131	.0978405
#3	1.406649	.0051028	.0050636	159.6840	.0986028	.0979419

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2005830	143.7385	7.481866	38.94837	.1302555	-.008923
Stddev	.0021434	1.3647	.077924	.33195	.0001275	.000655
%RSD	1.068563	.9494293	1.041499	.8522712	.0979030	7.343099
#1	.2012705	144.2852	7.512560	39.08487	.1303217	-.009609
#2	.2022982	144.7450	7.539769	39.19030	.1301084	-.008304
#3	.1981802	142.1852	7.393270	38.56994	.1303362	-.008855

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.123286	.1218907	.7633730	4.790571	F 13.90354	.0030546
Stddev	.635360	.0128945	.0054170	.074753	.07405	.0007401
%RSD	515.3564	10.57874	.7096206	1.560422	.5325777	24.22900
#1	-.852837	.1297372	.7571199	4.801987	13.85732	.0035352
#2	.308562	.1289262	.7666363	4.858960	13.86435	.0034263
#3	.174418	.1070088	.7663628	4.710767	13.98894	.0022023

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-14 Acquired: 12/15/2024 23:21:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKL6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0036390	3.515626	9.502164	.0314586	.5926381	.1008210
Stddev	.0000723	.014057	.092801	.0002876	.0074433	.0010565
%RSD	1.986458	.3998395	.9766354	.9141008	1.255967	1.047893
#1	.0035633	3.509215	9.566738	.0315280	.5905860	.1013397
#2	.0036465	3.505918	9.543937	.0317052	.6008922	.1015179
#3	.0037073	3.531746	9.395818	.0311427	.5864361	.0996054

Elem	Li6707
Units	ppm
Avg	.1162827
Stddev	.0066060
%RSD	5.680967
#1	.1161027
#2	.1097685
#3	.1229768

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2725.437	32884.48	3148.097	2297.621	3106.442
Stddev	7.205	111.70	18.645	17.916	5.764
%RSD	.2643684	.3396888	.5922563	.7797703	.1855453
#1	2717.413	32984.47	3137.064	2311.441	3102.215
#2	2731.355	32905.06	3137.603	2304.043	3113.008
#3	2727.542	32763.92	3169.624	2277.379	3104.105

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-15 Acquired: 12/15/2024 23:25:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKL7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0425865	.0210263	.2556516	-.013018	.0160599	59.07041
Stddev	.0055674	.0022245	.0051052	.001086	.0009125	.18405
%RSD	13.07320	10.57976	1.996944	8.345444	5.681744	.3115692
#1	.0403522	.0216649	.2536978	-.014086	.0158208	59.27135
#2	.0489240	.0185523	.2518118	-.011914	.0170681	58.91002
#3	.0384833	.0228617	.2614452	-.013054	.0152908	59.02985

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.117857	.0050762	.0040396	196.9052	.0847932	.0935446
Stddev	.006062	.0001098	.0001166	.4635	.0006726	.0003120
%RSD	.5422711	2.163013	2.885642	.2353938	.7932628	.3335521
#1	1.124768	.0049640	.0039558	197.3316	.0846190	.0937078
#2	1.113440	.0050812	.0039903	196.9719	.0855358	.0931848
#3	1.115363	.0051835	.0041727	196.4119	.0842248	.0937411

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1935461	134.6247	6.263512	50.09168	.1220534	-.007708
Stddev	.0015411	.6450	.029847	.23815	.0006797	.000115
%RSD	.7962444	.4791225	.4765143	.4754315	.5568842	1.492664
#1	.1938805	135.3585	6.294931	50.22048	.1224603	-.007743
#2	.1948925	134.1471	6.235537	49.81686	.1212688	-.007802
#3	.1918652	134.3685	6.260068	50.23769	.1224313	-.007580

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2004460	.1233606	.6056533	4.845474	F 10.56719	.0002274
Stddev	.6202896	.0060831	.0087500	.139059	.02572	.0028987
%RSD	309.4547	4.931171	1.444715	2.869866	.2434216	1274.507
#1	.5029605	.1167031	.6062644	4.753808	10.58517	.0035687
#2	-.513059	.1286291	.6140816	5.005479	10.53772	-.001272
#3	.611437	.1247495	.5966137	4.777135	10.57868	-.001614

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-15 Acquired: 12/15/2024 23:25:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKL7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026415	2.917220	8.625371	.0432079	.7296582	.1128160
Stddev	.0001099	.009525	.059511	.0005364	.0066802	.0005160
%RSD	4.158780	.3265036	.6899542	1.241492	.9155262	.4573885
#1	.0027681	2.923401	8.569707	.0436103	.7373540	.1130257
#2	.0025705	2.906251	8.688099	.0425989	.7253560	.1122282
#3	.0025860	2.922007	8.618307	.0434145	.7262646	.1131942

Elem	Li6707
Units	ppm
Avg	.1179067
Stddev	.0021536
%RSD	1.826499
#1	.1154203
#2	.1191846
#3	.1191152

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2676.080	32287.36	3084.657	2255.273	3096.076
Stddev	11.644	395.72	27.097	27.762	12.614
%RSD	.4351073	1.225631	.8784559	1.230961	.4074220
#1	2687.194	32700.56	3113.011	2283.088	3107.465
#2	2677.076	31911.81	3081.940	2227.565	3098.244
#3	2663.970	32249.70	3059.021	2255.166	3082.518

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-16 Acquired: 12/15/2024 23:28:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKL8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0574276**	**.0335891**	**.2099754**	**-.034616**	**.0132170**	**42.79134**
Stddev	.0001526	.0020177	.0033128	.007036	.0034620	.32263
%RSD	.2657648	6.006859	1.577707	20.32661	26.19369	.7539613
#1	.0574901	.0312906	.2071580	-.036908	.0152200	42.43257
#2	.0575391	.0344090	.2091433	-.040220	.0092194	42.88378
#3	.0572537	.0350679	.2136249	-.026719	.0152117	43.05765

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5794273**	**.0048687**	**.0035569**	F **1026.897**	**.0732005**	**.1104176**
Stddev	.0022763	.0001441	.0001080	5.185	.0011786	.0008668
%RSD	.3928537	2.959708	3.036289	.5048921	1.610142	.7849840
#1	.5781572	.0048448	.0036751	1021.588	.0744448	.1094350
#2	.5780695	.0047381	.0034634	1027.156	.0721009	.1110739
#3	.5820553	.0050233	.0035323	1031.948	.0730558	.1107438

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1735601**	**165.4932**	**6.976703**	**445.6537**	**.1226169**	**-.012286**
Stddev	.0005579	.9859	.037332	2.0831	.0005792	.000252
%RSD	.3214285	.5957467	.5350927	.4674230	.4723568	2.051399
#1	.1741581	164.3552	6.937039	443.3752	.1220952	-.012265
#2	.1730537	166.0354	6.981914	446.1253	.1225153	-.012045
#3	.1734686	166.0890	7.011156	447.4605	.1232402	-.012548

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6601744**	**.1366278**	**.5240473**	**4.234251**	**7.457110**	**-.003221**
Stddev	.5173464	.0108362	.0086165	.057036	.006261	.002919
%RSD	78.36511	7.931185	1.644230	1.347006	.0839663	90.62289
#1	.9426236	.1466268	.5339341	4.213646	7.463648	-.003975
#2	.0630834	.1381428	.5200698	4.298726	7.456514	.000001
#3	.9748162	.1251138	.5181379	4.190382	7.451167	-.005689

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-16 Acquired: 12/15/2024 23:28:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKL8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011061	1.840381	6.877056	.0222666	.5162835	.3646661
Stddev	.0003558	.007658	.051342	.0021593	.0017725	.0014579
%RSD	32.16656	.4161363	.7465660	9.697228	.3433186	.3997936
#1	.0007795	1.848825	6.833154	.0238539	.5160444	.3630901
#2	.0010535	1.838436	6.864505	.0231382	.5181634	.3659667
#3	.0014852	1.833883	6.933510	.0198078	.5146427	.3649414

Elem	Li6707
Units	ppm
Avg	.1616770
Stddev	.0026553
%RSD	1.642376
#1	.1621837
#2	.1640425
#3	.1588048

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2433.831	29984.53	2990.819	2066.197	2638.641
Stddev	10.386	352.15	22.889	19.380	12.176
%RSD	.4267320	1.174430	.7653086	.9379652	.4614567
#1	2444.736	29889.50	3014.095	2064.185	2652.182
#2	2432.702	29689.65	2990.024	2047.901	2635.147
#3	2424.057	30374.44	2968.337	2086.504	2628.594

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-17 Acquired: 12/15/2024 23:32:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKL9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0937953**	**.0122472**	**1.465380**	**.0042605**	**.0214147**	**57.35888**
Stddev	.0064335	.0017439	.005329	.0010367	.0008006	.20232
%RSD	6.859049	14.23929	.3636671	24.33372	3.738406	.3527218
#1	.0982959	.0123090	1.462974	.0047826	.0220526	57.49418
#2	.0864266	.0139594	1.461678	.0049324	.0205163	57.12630
#3	.0966635	.0104732	1.471488	.0030665	.0216752	57.45616

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9792372**	**.0053038**	**.0052769**	**51.26878**	**.0959158**	**.0781282**
Stddev	.0050655	.0000459	.0001421	.15963	.0008327	.0010710
%RSD	.5172871	.8653253	2.692281	.3113599	.8681996	1.370792
#1	.9830718	.0052664	.0053472	51.33856	.0961779	.0772845
#2	.9734949	.0053550	.0053702	51.08614	.0965860	.0777671
#3	.9811448	.0052901	.0051134	51.38164	.0949835	.0793331

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2275978**	**134.2321**	**5.661597**	**16.70151**	**.1462149**	**-.009261**
Stddev	.0039071	.8408	.033425	.16449	.0007446	.000304
%RSD	1.716682	.6263899	.5903744	.9848572	.5092437	3.285657
#1	.2312480	134.8758	5.682354	16.85157	.1454994	-.008941
#2	.2234764	133.2808	5.623040	16.52565	.1469855	-.009293
#3	.2280690	134.5397	5.679399	16.72731	.1461599	-.009547

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.162977**	**.1404292**	**1.009520**	**2.551563**	F **14.02052**	**-.018696**
Stddev	.359465	.0048916	.006781	.128536	.05066	.004456
%RSD	220.5622	3.483345	.6717084	5.037553	.3613080	23.83431
#1	.193356	.1362352	1.006500	2.697488	13.98159	-.014012
#2	-.525493	.1392495	1.004774	2.455126	14.00216	-.022882
#3	-.156793	.1458027	1.017287	2.502076	14.07779	-.019194

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-17 Acquired: 12/15/2024 23:32:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKL9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053847	2.978482	7.823830	.0560393	.7316263	.0143144
Stddev	.0001124	.010202	.017637	.0016687	.0031035	.0000402
%RSD	2.088031	.3425392	.2254211	2.977645	.4241896	.2807496
#1	.0054838	2.976668	7.816536	.0566627	.7350080	.0143175
#2	.0052625	2.969308	7.811011	.0573065	.7309624	.0143530
#3	.0054078	2.989470	7.843944	.0541487	.7289084	.0142728

Elem	Li6707
Units	ppm
Avg	.1083668
Stddev	.0030236
%RSD	2.790182
#1	.1050541
#2	.1109782
#3	.1090680

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2752.480	33565.42	3129.517	2327.628	3201.217
Stddev	6.272	166.26	13.719	15.422	11.871
%RSD	.2278563	.4953402	.4383701	.6625537	.3708193
#1	2758.556	33728.98	3145.357	2344.593	3212.537
#2	2752.854	33396.58	3121.434	2314.457	3202.253
#3	2746.029	33570.70	3121.760	2323.833	3188.863

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: CCV033 Acquired: 12/15/2024 23:36:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV033 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.897363**	**4.847410**	**24.28753**	**4.679079**	**4.798218**	**384.6534**	**10.07650**
Stddev	.007444	.010541	.03351	.024980	.003119	1.2571	.03002
%RSD	.1520066	.2174645	.1379867	.5338636	.0649980	.3268073	.2979380
#1	4.902110	4.858650	24.31670	4.704672	4.800005	384.5884	10.06989
#2	4.901195	4.845835	24.25092	4.677804	4.794617	385.9417	10.10927
#3	4.888783	4.837745	24.29496	4.654761	4.800032	383.4301	10.05033

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4954488**	**2.432232**	**395.6178**	**14.93170**	**2.445840**	**15.12667**	**390.6694**
Stddev	.0031916	.003190	1.4578	.10872	.003434	.07783	1.9920
%RSD	.6441765	.1311572	.3684816	.7281352	.1404095	.5145426	.5098850
#1	.4962138	2.435878	395.0575	15.01306	2.449578	15.12084	389.9611
#2	.4981884	2.429955	397.2727	14.97383	2.442824	15.20725	392.9187
#3	.4919443	2.430864	394.5234	14.80822	2.445117	15.05191	389.1284

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.75774**	**389.3723**	**2.455686**	**1.223452**	**391.2151**	**2.464551**	**13.68428**
Stddev	.09334	1.5337	.004648	.008782	1.0226	.015497	.08971
%RSD	.6324668	.3938897	.1892706	.7178153	.2613792	.6288152	.6555831
#1	14.72527	388.6375	2.460811	1.230981	391.8318	2.449120	13.67507
#2	14.86297	391.1352	2.451744	1.225570	391.7787	2.464418	13.77825
#3	14.68497	388.3443	2.454503	1.213805	390.0347	2.480114	13.59953

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**150.9163**	**4.900638**	**4.857105**	**4.734705**	**4.916885**	**4.991906**	**4.932097**
Stddev	.1119	.012070	.022839	.010431	.003522	.037078	.011435
%RSD	.0741688	.2462901	.4702159	.2203150	.0716308	.7427576	.2318388
#1	150.9148	4.909368	4.862912	4.746023	4.914760	4.989881	4.941687
#2	151.0289	4.886864	4.876481	4.725477	4.914944	5.029955	4.919442
#3	150.8050	4.905681	4.831924	4.732616	4.920950	4.955882	4.935161

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: CCV033 Acquired: 12/15/2024 23:36:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV033 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	**4.976101**	**4.752450**	**5.267520**
Stddev	.020984	.020087	.044643
%RSD	.4217013	.4226575	.8475081
#1	4.969184	4.743035	5.243462
#2	4.999670	4.775515	5.319031
#3	4.959448	4.738800	5.240066

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1932.472**	**25500.79**	**2501.906**	**1677.727**	**2553.549**
Stddev	6.615	215.45	19.845	17.224	6.494
%RSD	.3422897	.8448890	.7932133	1.026613	.2543219
#1	1925.485	25385.75	2502.064	1675.390	2546.872
#2	1938.638	25367.26	2481.982	1661.791	2559.843
#3	1933.292	25749.34	2521.672	1696.000	2553.931

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: CCB033 Acquired: 12/15/2024 23:40:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB033 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002590**	**.0020203**	**.0002030**	**.0002320**	**-.000027**	**-.012978**
Stddev	.005044	.0008797	.0006604	.0052863	.001457	.027986
%RSD	194.7663	43.54296	325.3658	2278.462	5339.763	215.6418
#1	-.001373	.0028274	.0003631	.0055693	-.001096	-.020894
#2	.001734	.0010826	-.000523	.0001285	-.000618	.018113
#3	-.008130	.0021508	.000769	-.005002	.001632	-.036154

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016868**	**-.000032**	**.0000642**	**-.060042**	**-.000583**	**.0000360**
Stddev	.0008243	.000083	.0000478	.022378	.000664	.0005095
%RSD	48.87108	255.6725	74.36920	37.26966	113.9101	1416.385
#1	.0025032	.000027	.0001114	-.054945	-.000155	.0005775
#2	.0017024	.000003	.0000158	-.084529	-.001347	-.000036
#3	.0008547	-.000127	.0000655	-.040653	-.000246	-.000434

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004822**	**-.013858**	**.0008328**	**.0381419**	**.0003579**	**-.000253**
Stddev	.0034456	.042804	.0002898	.0145348	.0000780	.000358
%RSD	714.6059	308.8766	34.79970	38.10726	21.79226	141.3085
#1	.0044535	-.061135	.0011658	.0455911	.0004399	-.000119
#2	-.001713	.022262	.0006381	.0213926	.0002847	.000018
#3	-.001294	-.002700	.0006943	.0474419	.0003492	-.000659

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.836525**	**-.013057**	**-.017217**	**.8255356**	**.0008956**	**.0096406**
Stddev	.151144	.004335	.004283	.1522722	.0020696	.0009385
%RSD	18.06806	33.19786	24.87401	18.44526	231.0890	9.735174
#1	-.792880	-.015177	-.018251	.6593859	-.001164	.0089277
#2	-.712006	-.008070	-.020888	.8587856	.002975	.0092901
#3	-1.00469	-.015923	-.012512	.9584354	.000875	.0107039

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: CCB033 Acquired: 12/15/2024 23:40:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB033 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000811	-.005642	.0010783	-.000646	.0024332	.0002821
Stddev	.0001046	.001467	.0005026	.000665	.0042079	.0002385
%RSD	128.9051	25.99898	46.61317	102.9272	172.9401	84.54184
#1	.0001971	-.006383	.0016578	-.000404	.0057594	.0004367
#2	-.000006	-.006590	.0008166	-.000136	-.002297	.0000074
#3	.000052	-.003952	.0007606	-.001397	.003837	.0004022

Elem	Li6707
Units	ppm
Avg	F .0155746
Stddev	.0068930
%RSD	44.25795
#1	.0216300
#2	.0170203
#3	.0080734

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2348.182	28473.86	2607.522	1969.238	3261.300
Stddev	9.719	65.39	2.558	4.777	7.103
%RSD	.4139107	.2296648	.0980885	.2425566	.2178055
#1	2343.008	28549.35	2606.905	1974.635	3255.296
#2	2359.394	28434.30	2605.329	1967.521	3269.142
#3	2342.143	28437.95	2610.332	1965.557	3259.463

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-18 Acquired: 12/15/2024 23:44:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1007970	.0086632	1.438009	.0046396	.0245647	60.85424	1.003159
Stddev	.0014721	.0030568	.006240	.0032796	.0010825	.14722	.002656
%RSD	1.460453	35.28524	.4339181	70.68777	4.406611	.2419247	.2647842
#1	.1015879	.0101795	1.435152	.0017515	.0234788	60.99764	1.005790
#2	.0990985	.0106655	1.433709	.0082050	.0245714	60.86159	1.003209
#3	.1017046	.0051447	1.445166	.0039622	.0256437	60.70348	1.000478

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0056405	.0049887	40.47417	.0919895	.0756792	.2562555	144.8678
Stddev	.0001917	.0001523	.14093	.0014568	.0009496	.0046364	.6783
%RSD	3.397782	3.052182	.3482030	1.583690	1.254753	1.809301	.4682515
#1	.0058615	.0051262	40.63536	.0927451	.0755442	.2558956	145.6377
#2	.0055199	.0048251	40.37419	.0903101	.0748043	.2610614	144.6074
#3	.0055400	.0050148	40.41298	.0929132	.0766890	.2518096	144.3582

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.050457	18.79396	.1344662	-.010045	-.354308	.1496460	.9174877
Stddev	.028617	.11806	.0001406	.000558	.903847	.0129177	.0202999
%RSD	.4729769	.6281989	.1045555	5.558570	255.1024	8.632188	2.212549
#1	6.083488	18.90416	.1343073	-.010687	.017900	.1446811	.9150801
#2	6.033123	18.80836	.1345746	-.009769	-1.38483	.1643096	.8984990
#3	6.034760	18.66936	.1345167	-.009678	.30400	.1399473	.9388840

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.622884	7.141282	-.012223	.0036857	2.073512	7.768535	.0625694
Stddev	.081526	.016439	.001817	.0001487	.002413	.050511	.0008351
%RSD	3.108267	.2301966	14.86679	4.035581	.1163743	.6502039	1.334613
#1	2.530806	7.130488	-.014135	.0038567	2.071270	7.826857	.0635010
#2	2.651960	7.133156	-.010518	.0035858	2.073200	7.738847	.0623191
#3	2.685886	7.160201	-.012016	.0036148	2.076065	7.739901	.0618882

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-18 Acquired: 12/15/2024 23:44:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6937562	-.037024	.1070783
Stddev	.0050421	.000219	.0015417
%RSD	.7267792	.5906687	1.439791
#1	.6977401	-.037263	.1068711
#2	.6880874	-.036834	.1087131
#3	.6954411	-.036975	.1056506

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2678.631	32644.47	3018.620	2271.022	3237.721
Stddev	6.107	340.14	15.864	30.613	6.276
%RSD	.2279758	1.041962	.5255233	1.347964	.1938517
#1	2683.514	32540.68	3003.705	2262.882	3244.111
#2	2680.594	33024.42	3016.870	2304.882	3237.487
#3	2671.784	32368.31	3035.286	2245.303	3231.565

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-19 Acquired: 12/15/2024 23:48:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0748053	.0078947	.7876163	.0001085	.0227998	62.34995	.8716726
Stddev	.0011969	.0013655	.0075541	.0020884	.0010726	.04932	.0015956
%RSD	1.599947	17.29619	.9591140	1925.095	4.704281	.0791052	.1830518
#1	.0757809	.0080530	.7845320	-.002008	.0229114	62.31798	.8717001
#2	.0734698	.0064570	.7820922	.002168	.0216758	62.40675	.8732543
#3	.0751652	.0091741	.7962245	.000166	.0238122	62.32511	.8700634

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053731	.0037658	55.10500	.0823153	.0755440	.1878937	144.2875
Stddev	.0000163	.0001220	.20364	.0009896	.0001589	.0051948	.2606
%RSD	.3041375	3.239399	.3695431	1.202145	.2103475	2.764775	.1806214
#1	.0053590	.0036268	55.01578	.0815533	.0755437	.1854879	144.2457
#2	.0053694	.0038154	55.33802	.0819588	.0753852	.1938554	144.5664
#3	.0053910	.0038551	54.96121	.0834337	.0757030	.1843380	144.0502

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.585227	22.42640	.1059142	-.010089	-.230305	.1382741	.5538112
Stddev	.006693	.05286	.0007906	.000563	.636887	.0130916	.0055573
%RSD	.1198394	.2356878	.7464345	5.579917	276.5401	9.467863	1.003469
#1	5.592735	22.37309	.1050164	-.010384	.409961	.1474122	.5581447
#2	5.579886	22.42731	.1062195	-.009440	-.237120	.1441338	.5475458
#3	5.583059	22.47879	.1065065	-.010444	-.863758	.1232761	.5557432

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.658994	6.184895	-.021157	.0030478	1.451721	7.362189	.0540904
Stddev	.063146	.062718	.001670	.0003448	.011433	.055857	.0009690
%RSD	3.806305	1.014052	7.891625	11.31117	.7875270	.7587026	1.791447
#1	1.674271	6.134436	-.022487	.0027295	1.440934	7.328728	.0532313
#2	1.713099	6.165136	-.019284	.0030001	1.450523	7.331168	.0551408
#3	1.589610	6.255113	-.021702	.0034140	1.463705	7.426672	.0538990

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-19 Acquired: 12/15/2024 23:48:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6711656	-.027228	.1022917
Stddev	.0056101	.000187	.0031027
%RSD	.8358756	.6851278	3.033139
#1	.6706475	-.027436	.0987176
#2	.6770168	-.027174	.1038651
#3	.6658325	-.027075	.1042924

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2627.981	31876.68	2982.631	2224.125	3219.282
Stddev	8.125	194.21	20.510	6.967	13.253
%RSD	.3091739	.6092397	.6876637	.3132256	.4116819
#1	2629.482	31653.89	2979.243	2217.386	3224.877
#2	2635.251	32010.19	3004.624	2231.299	3228.821
#3	2619.210	31965.96	2964.025	2223.691	3204.149

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-20 Acquired: 12/15/2024 23:51:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1406541**	**.0222313**	**.2431763**	**.0012893**	**.0335590**	**62.19006**
Stddev	.0028981	.0026534	.0016560	.0011225	.0016743	.15396
%RSD	2.060407	11.93522	.6809664	87.06413	4.989006	.2475574
#1	.1418534	.0200096	.2434588	.0019893	.0318198	62.16442
#2	.1427601	.0251692	.2413973	-.000005	.0351597	62.35523
#3	.1373490	.0215150	.2446728	.001884	.0336973	62.05054

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8572186**	**.0062692**	**.0053952**	**68.68969**	**.1000087**	**.1094665**
Stddev	.0006879	.0000996	.0001876	.19253	.0005397	.0009424
%RSD	.0802474	1.588775	3.477821	.2802864	.5396785	.8609493
#1	.8572004	.0061957	.0054853	68.80109	.0993911	.1098574
#2	.8565400	.0063826	.0051795	68.80060	.1003901	.1083915
#3	.8579155	.0062294	.0055208	68.46738	.1002448	.1101506

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2463360**	**214.4611**	**14.40055**	**32.53853**	**.2096614**	**-.015611**
Stddev	.0016041	.4160	.02322	.12882	.0007607	.000439
%RSD	.6511899	.1939857	.1612254	.3959030	.3628352	2.812962
#1	.2445277	214.3972	14.41311	32.47583	.2089168	-.015572
#2	.2468926	214.9054	14.41478	32.68670	.2096300	-.016068
#3	.2475876	214.0807	14.37376	32.45306	.2104373	-.015193

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2221453**	**.2039864**	**.4649738**	**3.586735**	F **11.65785**	**-.040358**
Stddev	.2679773	.0068047	.0094764	.067175	.01176	.001325
%RSD	120.6315	3.335861	2.038041	1.872872	.1009167	3.282992
#1	.0990628	.2059693	.4575527	3.605721	11.65645	-.041814
#2	.5295521	.1964105	.4756483	3.512110	11.64685	-.039224
#3	.0378211	.2095795	.4617204	3.642373	11.67025	-.040035

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-20 Acquired: 12/15/2024 23:51:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029410	.8663334	8.246889	.0213998	.7159543	-.063289
Stddev	.0002217	.0045330	.052112	.0007703	.0052716	.000306
%RSD	7.537161	.5232343	.6319010	3.599738	.7363009	.4835122
#1	.0030570	.8650445	8.248396	.0208410	.7169560	-.063291
#2	.0026854	.8713712	8.298232	.0210799	.7206532	-.063594
#3	.0030806	.8625844	8.194040	.0222786	.7102538	-.062982

Elem	Li6707
Units	ppm
Avg	.1265606
Stddev	.0034472
%RSD	2.723768
#1	.1227501
#2	.1274693
#3	.1294625

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2974.277	36128.10	3421.932	2514.703	3155.011
Stddev	3.838	114.87	30.529	7.291	4.589
%RSD	.1290530	.3179629	.8921547	.2899386	.1454666
#1	2970.918	36167.45	3428.094	2518.936	3151.702
#2	2978.461	35998.72	3388.792	2506.284	3160.251
#3	2973.452	36218.12	3448.910	2518.889	3153.082

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-21 Acquired: 12/15/2024 23:55:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1088633**	**.0078955**	**.2501499**	**.0121315**	**.0353586**	**73.81577**	**.8810170**
Stddev	.0031809	.0029329	.0040144	.0044016	.0029719	1.39968	.0174567
%RSD	2.921881	37.14635	1.604782	36.28251	8.405021	1.896181	1.981425
#1	.1065081	.0056837	.2467409	.0070772	.0338377	72.22801	.8611281
#2	.1124818	.0067804	.2491343	.0151219	.0387832	74.87112	.8938005
#3	.1076001	.0112224	.2545746	.0141954	.0334551	74.34820	.8881223

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0071539**	**.0051316**	**30.35915**	**.1063373**	**.0983336**	**.2091470**	**204.6741**
Stddev	.0001820	.0001540	.68828	.0004639	.0004322	.0086016	3.9114
%RSD	2.544259	3.001840	2.267114	.4363003	.4395577	4.112724	1.911054
#1	.0071065	.0052933	29.58809	.1059981	.0986257	.2037960	200.2435
#2	.0073549	.0049866	30.91147	.1061478	.0978371	.2190691	207.6487
#3	.0070003	.0051147	30.57790	.1068660	.0985380	.2045759	206.1302

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.78605**	**21.43316**	**.1982722**	**-.014459**	**.2169258**	**.1864809**	**.3951865**
Stddev	.19726	.40405	.0019225	.000452	.3540671	.0008351	.0076495
%RSD	1.828849	1.885155	.9696095	3.126515	163.2204	.4478221	1.935664
#1	10.56089	20.97286	.1965670	-.014963	.5659073	.1872330	.3892841
#2	10.92846	21.72925	.1978940	-.014089	.2268867	.1866273	.3924470
#3	10.86880	21.59738	.2003557	-.014325	-.142017	.1855822	.4038286

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.553380**	**4.140293**	**-.048894**	**.0050226**	**.5778609**	**8.606340**	**.0233035**
Stddev	.151716	.024575	.002809	.0005251	.0020866	.016885	.0015213
%RSD	4.269614	.5935659	5.746048	10.45385	.3610965	.1961930	6.528119
#1	3.382124	4.115273	-.052069	.0055371	.5761122	8.590864	.0227323
#2	3.670966	4.141209	-.047885	.0050431	.5772998	8.624348	.0221506
#3	3.607050	4.164398	-.046729	.0044876	.5801707	8.603808	.0250277

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5039-21 Acquired: 12/15/2024 23:55:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.9720330	-.121350	.1389831
Stddev	.0233959	.002553	.0044667
%RSD	2.406907	2.103946	3.213811
#1	.9465113	-.118444	.1353948
#2	.9924654	-.123232	.1439857
#3	.9771222	-.122373	.1375688

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2956.028	35746.99	3387.526	2490.809	3184.155
Stddev	13.114	26.20	14.222	1.634	16.097
%RSD	.4436373	.0733033	.4198207	.0656082	.5055492
#1	2969.031	35745.68	3402.954	2491.329	3199.824
#2	2956.245	35773.82	3374.940	2488.979	3184.982
#3	2942.806	35721.46	3384.684	2492.121	3167.660

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-01 Acquired: 12/15/2024 23:59:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1586510	.0236727	1.290022	.0016955	.0260722	73.06554	1.375854
Stddev	.0050145	.0017823	.002697	.0053075	.0020535	.20637	.006462
%RSD	3.160693	7.529028	.2090963	313.0395	7.876330	.2824480	.4696365
#1	.1605190	.0224007	1.291244	.0077146	.0275316	73.22359	1.377420
#2	.1624633	.0229076	1.286930	-.002312	.0269610	72.83206	1.368753
#3	.1529706	.0257098	1.291892	-.000316	.0237240	73.14096	1.381389

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0072253	.0093444	83.14545	.1133599	.1197780	.3023067	179.7720
Stddev	.0001876	.0000398	.28882	.0003310	.0005094	.0020711	.8774
%RSD	2.596739	.4263702	.3473730	.2919763	.4252568	.6850950	.4880852
#1	.0074414	.0093439	83.33647	.1136127	.1196595	.3042341	180.1470
#2	.0071042	.0093049	82.81318	.1129853	.1193383	.3001170	178.7694
#3	.0071303	.0093845	83.28669	.1134816	.1203361	.3025691	180.3997

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.77110	33.41522	.1909983	-.010120	-.285830	.1593477	.9300372
Stddev	.06507	.14614	.0008824	.000877	.606918	.0031229	.0061626
%RSD	.4405546	.4373522	.4619876	8.661233	212.3355	1.959825	.6626145
#1	14.81174	33.56115	.1919520	-.010433	-.303248	.1609668	.9267703
#2	14.69604	33.26887	.1902109	-.010797	-.883852	.1557477	.9261959
#3	14.80551	33.41563	.1908321	-.009130	.329610	.1613287	.9371454

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.637250	7.472421	-.019228	.0064461	2.768953	8.331872	.0996679
Stddev	.249409	.016176	.000983	.0001142	.001462	.069705	.0015603
%RSD	3.757714	.2164756	5.110244	1.771342	.0528103	.8366096	1.565527
#1	6.409087	7.488710	-.018656	.0063429	2.768470	8.409972	.0994451
#2	6.599143	7.456360	-.020363	.0065688	2.767794	8.309677	.0982310
#3	6.903519	7.472192	-.018666	.0064267	2.770596	8.275967	.1013277

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-01 Acquired: 12/15/2024 23:59:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5074309	-.018037	.1202880
Stddev	.0081487	.000540	.0042925
%RSD	1.605870	2.991885	3.568545
#1	.5140578	-.018428	.1244361
#2	.4983326	-.017421	.1205635
#3	.5099024	-.018262	.1158643

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2797.276	33866.07	3179.481	2370.398	3192.667
Stddev	6.609	179.45	17.094	12.588	8.835
%RSD	.2362678	.5298803	.5376391	.5310541	.2767215
#1	2797.287	33963.11	3160.462	2378.862	3188.807
#2	2803.880	33976.10	3193.563	2376.400	3202.775
#3	2790.662	33658.99	3184.418	2355.932	3186.419

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-02 Acquired: 12/16/2024 0:03:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1305265	.0294753	.7182744	.0051212	.0305052	74.30214	1.329653
Stddev	.0016836	.0005243	.0013182	.0035863	.0010308	.09731	.001676
%RSD	1.289822	1.778868	.1835242	70.02903	3.379194	.1309631	.1260428
#1	.1287238	.0300727	.7178510	.0069060	.0310076	74.37477	1.331571
#2	.1320581	.0290917	.7172199	.0009927	.0293195	74.19158	1.328472
#3	.1307976	.0292615	.7197523	.0074649	.0311885	74.34007	1.328915

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0070294	.0080353	100.9100	.1144042	.1274089	.2402889	196.9467
Stddev	.0000557	.0001614	.1878	.0005226	.0013069	.0024282	.6219
%RSD	.7918246	2.008272	.1860920	.4567795	1.025774	1.010539	.3157641
#1	.0070800	.0078974	100.7193	.1140854	.1259279	.2411840	197.6292
#2	.0069698	.0079956	100.9159	.1150073	.1284007	.2375402	196.7987
#3	.0070384	.0082127	101.0947	.1141200	.1278981	.2421425	196.4122

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.30168	32.28291	.1776850	-.011388	.1746829	.1467753	.6375549
Stddev	.04967	.21928	.0002952	.000300	.6245196	.0102451	.0119494
%RSD	.3046991	.6792565	.1661166	2.634878	357.5161	6.980146	1.874252
#1	16.35561	32.47737	.1773672	-.011121	.7829549	.1353581	.6254756
#2	16.25780	32.04524	.1779505	-.011713	-.464906	.1498010	.6493699
#3	16.29164	32.32612	.1777374	-.011331	.206000	.1551669	.6378193

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.875910	6.528455	-.024246	.0063146	2.249074	8.522788	.0862467
Stddev	.062984	.020488	.002350	.0003990	.010407	.084539	.0014888
%RSD	1.071903	.3138302	9.691110	6.318833	.4627055	.9919159	1.726187
#1	5.849838	6.526860	-.026659	.0059067	2.255259	8.599828	.0876844
#2	5.830149	6.508811	-.024116	.0063331	2.237059	8.536186	.0863441
#3	5.947744	6.549694	-.021965	.0067040	2.254904	8.432351	.0847116

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-02 Acquired: 12/16/2024 0:03:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4421759	-.037708	.1119815
Stddev	.0037139	.000736	.0050675
%RSD	.8399088	1.952953	4.525327
#1	.4430058	-.038228	.1062455
#2	.4381173	-.038030	.1138476
#3	.4454047	-.036865	.1158513

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2800.434	33929.86	3182.157	2364.366	3162.439
Stddev	16.408	76.54	18.403	7.598	20.223
%RSD	.5858942	.2255712	.5783041	.3213436	.6394593
#1	2819.358	33985.64	3169.769	2371.113	3185.431
#2	2790.189	33842.60	3173.398	2356.136	3147.412
#3	2791.755	33961.34	3203.302	2365.849	3154.475

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-03 Acquired: 12/16/2024 0:07:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1685278**	**.0571950**	**.6032984**	**.0035944**	**.0296615**	**77.67177**
Stddev	.0063835	.0013683	.0015498	.0037770	.0031921	.09166
%RSD	3.787805	2.392409	.2568889	105.0789	10.76189	.1180089
#1	.1635632	.0578330	.6015712	.0049852	.0328864	77.67027
#2	.1662916	.0581278	.6045676	.0064789	.0265032	77.76417
#3	.1757285	.0556242	.6037564	-.000681	.0295948	77.58087

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.868927**	**.0061332**	**.0113314**	**221.3194**	**.1165173**	**.1582751**
Stddev	.006241	.0000863	.0001238	.5088	.0004599	.0006838
%RSD	.3339611	1.406453	1.092806	.2299133	.3946759	.4320512
#1	1.873494	.0062197	.0112120	221.1182	.1161405	.1574875
#2	1.871472	.0060471	.0113230	221.8981	.1163816	.1586210
#3	1.861815	.0061330	.0114593	220.9419	.1170297	.1587169

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2664048**	**215.8942**	F **31.98679**	**83.52485**	**.2132559**	**-.009607**
Stddev	.0017552	.2703	.06666	.11886	.0009169	.000397
%RSD	.6588276	.1251830	.2084014	.1423084	.4299562	4.136999
#1	.2679596	216.1753	32.06209	83.44305	.2121971	-.010045
#2	.2645016	215.8709	31.96292	83.66120	.2137773	-.009507
#3	.2667533	215.6363	31.93534	83.47030	.2137931	-.009269

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.439697**	**.1433634**	**.6466409**	**5.437951**	**6.560251**	**-.016224**
Stddev	.379613	.0133575	.0038375	.046742	.022698	.002816
%RSD	86.33510	9.317238	.5934565	.8595603	.3459855	17.35445
#1	-.137966	.1542157	.6494501	5.472445	6.543283	-.019101
#2	-.315200	.1284454	.6422685	5.456656	6.551437	-.016095
#3	-.865926	.1474290	.6482041	5.384753	6.586034	-.013475

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-03 Acquired: 12/16/2024 0:07:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055176	2.432877	8.559969	.0397551	.3929156	.0134207
Stddev	.0001781	.017962	.046111	.0005445	.0004320	.0004230
%RSD	3.227664	.7382887	.5386821	1.369736	.1099515	3.152112
#1	.0055924	2.414793	8.526151	.0394438	.3924868	.0138452
#2	.0056462	2.433123	8.612494	.0394376	.3933507	.0129991
#3	.0053144	2.450714	8.541263	.0403839	.3929093	.0134178

Elem	Li6707
Units	ppm
Avg	.1279585
Stddev	.0035913
%RSD	2.806594
#1	.1243089
#2	.1314885
#3	.1280782

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2888.150	34976.27	3341.197	2432.573	3006.368
Stddev	12.027	56.41	9.928	11.047	15.841
%RSD	.4164224	.1612752	.2971348	.4541114	.5269039
#1	2901.930	34971.99	3349.903	2432.669	3024.514
#2	2879.767	35034.70	3330.385	2443.572	2995.302
#3	2882.752	34922.13	3343.303	2421.479	2999.288

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-04 Acquired: 12/16/2024 0:11:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB6D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1843063**	**.0630663**	**.6446426**	**.0067668**	**.0310119**	**83.81101**
Stddev	.0030641	.0028655	.0046539	.0042820	.0024913	.16198
%RSD	1.662492	4.543632	.7219344	63.27953	8.033325	.1932645
#1	.1875495	.0662752	.6401898	.0030446	.0338051	83.84996
#2	.1839094	.0621606	.6494744	.0114465	.0302110	83.94996
#3	.1814600	.0607631	.6442634	.0058094	.0290196	83.63311

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.959632**	**.0067134**	**.0123468**	**210.1797**	**.1228825**	**.1693995**
Stddev	.005111	.0000606	.0002254	.3647	.0005372	.0010226
%RSD	.2608008	.9030369	1.825818	.1735174	.4371235	.6036450
#1	1.956190	.0067729	.0126027	210.5004	.1227461	.1682561
#2	1.965504	.0067156	.0122603	209.7830	.1224267	.1702264
#3	1.957201	.0066517	.0121774	210.2556	.1234747	.1697159

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2747811**	**228.5097**	F **33.42684**	**85.64134**	**.2334082**	**-.009904**
Stddev	.0077648	.1765	.05576	.23740	.0004638	.000215
%RSD	2.825820	.0772282	.1667973	.2772035	.1987170	2.174050
#1	.2792678	228.6698	33.36429	85.50009	.2337424	-.009705
#2	.2658150	228.5386	33.47131	85.91543	.2328787	-.009874
#3	.2792604	228.3205	33.44492	85.50851	.2336036	-.010132

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.282193**	**.1528662**	**.6828452**	**5.821663**	**7.039485**	**-.022159**
Stddev	.802086	.0053625	.0106477	.163956	.002721	.002619
%RSD	284.2328	3.508003	1.559307	2.816304	.0386530	11.82060
#1	-.077721	.1589231	.6711809	5.863213	7.036680	-.024431
#2	-1.16672	.1487229	.6920434	5.640930	7.042114	-.022751
#3	.39786	.1509527	.6853114	5.960847	7.039659	-.019294

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-04 Acquired: 12/16/2024 0:11:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB6D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0060417	2.641408	8.806278	.0433689	.3755475	-.008521
Stddev	.0006318	.018355	.058900	.0015887	.0008446	.000396
%RSD	10.45776	.6949043	.6688445	3.663265	.2249031	4.650610
#1	.0066958	2.640207	8.873586	.0437596	.3764217	-.008550
#2	.0059945	2.660334	8.764170	.0447258	.3747360	-.008902
#3	.0054348	2.623683	8.781077	.0416213	.3754849	-.008111

Elem	Li6707
Units	ppm
Avg	.1274731
Stddev	.0089048
%RSD	6.985620
#1	.1262995
#2	.1369065
#3	.1192133

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2961.958	35949.99	3418.391	2507.720	3023.639
Stddev	4.384	109.58	24.302	6.522	5.965
%RSD	.1480206	.3048080	.7109280	.2600754	.1972664
#1	2965.020	35905.31	3390.584	2505.506	3030.404
#2	2963.918	35869.80	3429.026	2502.593	3019.138
#3	2956.936	36074.85	3435.564	2515.061	3021.375

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-03LX5 Acquired: 12/16/2024 0:14:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB6L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0305955**	**.0185474**	**.1283164**	**-.008312**	**.0011076**	**18.58643**	**.4537403**
Stddev	.0022239	.0013391	.0006929	.001715	.0005179	.08027	.0013364
%RSD	7.268835	7.220113	.5399699	20.63025	46.76120	.4318998	.2945178
#1	.0283223	.0188865	.1277217	-.008172	.0012676	18.62603	.4546301
#2	.0306975	.0170713	.1281502	-.010092	.0015267	18.49405	.4522036
#3	.0327666	.0196843	.1290772	-.006671	.0005286	18.63922	.4543871

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0015193**	**.0021996**	**54.43442**	**.0284621**	**.0454959**	**.0610915**	**53.24533**
Stddev	.0000965	.0000436	.23258	.0006889	.0002048	.0153466	.30433
%RSD	6.351523	1.983421	.4272722	2.420340	.4501217	25.12058	.5715659
#1	.0014990	.0022112	54.45570	.0292446	.0457128	.0777955	53.43938
#2	.0014345	.0021513	54.19193	.0281942	.0454691	.0578631	52.89458
#3	.0016243	.0022363	54.65564	.0279473	.0453058	.0476160	53.40203

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.907565**	**20.37856**	**.0417712**	**-.001846**	**-1.23716**	**.0273317**	**.1487513**
Stddev	.048397	.09523	.0006610	.000284	1.23580	.0039408	.0090377
%RSD	.6120371	.4673062	1.582475	15.39262	99.88956	14.41838	6.075731
#1	7.924094	20.31932	.0411042	-.001935	-2.66335	.0307680	.1392441
#2	7.853068	20.32794	.0424261	-.001528	-.56506	.0281969	.1497780
#3	7.945532	20.48841	.0417833	-.002076	-.48307	.0230302	.1572319

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.685703**	**1.310113**	**-.008565**	**.0015078**	**.4873535**	**2.125098**	**.0079974**
Stddev	.115769	.011218	.001297	.0004062	.0023637	.015479	.0011492
%RSD	6.867700	.8562559	15.14875	26.93877	.4850054	.7283781	14.36926
#1	1.795685	1.298008	-.008733	.0010419	.4856958	2.139036	.0093142
#2	1.564906	1.312172	-.007191	.0017875	.4863046	2.108439	.0074807
#3	1.696517	1.320159	-.009769	.0016940	.4900602	2.127819	.0071972

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-03LX5 Acquired: 12/16/2024 0:14:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB6L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0939500	.0022967	.0394081
Stddev	.0025929	.0001748	.0019231
%RSD	2.759912	7.611363	4.879984
#1	.0958252	.0024979	.0414221
#2	.0950339	.0022105	.0392110
#3	.0909910	.0021818	.0375911

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2473.197	29794.80	2815.207	2073.777	3172.779
Stddev	14.319	54.80	13.137	6.595	24.079
%RSD	.5789731	.1839191	.4666381	.3180065	.7589388
#1	2489.697	29794.88	2801.645	2078.281	3200.583
#2	2465.867	29739.95	2827.873	2066.207	3158.947
#3	2464.026	29849.55	2816.104	2076.842	3158.806

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-05 Acquired: 12/16/2024 0:18:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB6S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2610883	.1573301	.6542685	.1465237	.1672599	80.80306
Stddev	.0017595	.0024129	.0018265	.0006237	.0028023	.13718
%RSD	.6739083	1.533673	.2791638	.4256692	1.675386	.1697758
#1	.2611030	.1546613	.6562912	.1461836	.1671359	80.81867
#2	.2628404	.1593576	.6527400	.1461440	.1645217	80.65874
#3	.2593215	.1579715	.6537741	.1472436	.1701221	80.93178

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.166264	.0857779	.1078235	220.6305	.4551258	1.118668
Stddev	.014926	.0005928	.0005537	.7424	.0023682	.003237
%RSD	.2889156	.6911255	.5134781	.3365113	.5203446	.2894055
#1	5.174103	.0854308	.1075325	220.7215	.4555746	1.116199
#2	5.149051	.0864624	.1074761	219.8467	.4572375	1.117471
#3	5.175636	.0854405	.1084620	221.3232	.4525652	1.122333

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6511261	218.6935	F 32.83261	82.76304	1.194342	.0559779
Stddev	.0041370	.4063	.05163	.03745	.004083	.0002743
%RSD	.6353623	.1857707	.1572500	.0452508	.3418588	.4899677
#1	.6518203	218.6385	32.82636	82.77838	1.191268	.0557763
#2	.6548721	218.3176	32.78439	82.72035	1.192783	.0558673
#3	.6466859	219.1245	32.88708	82.79038	1.198974	.0562903

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.627625	.9765623	1.327373	5.377289	6.671353	-.030810
Stddev	.568746	.0083659	.021153	.058366	.026320	.002075
%RSD	90.61870	.8566660	1.593626	1.085416	.3945177	6.736495
#1	-.671844	.9827321	1.339813	5.312361	6.660277	-.028415
#2	-.038061	.9799147	1.302948	5.425402	6.652382	-.031916
#3	-1.17297	.9670402	1.339356	5.394104	6.701401	-.032098

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-05 Acquired: 12/16/2024 0:18:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB6S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0054557	2.497367	8.572598	.0390076	.3879967	.0086673
Stddev	.0008936	.012312	.041614	.0013639	.0020331	.0001731
%RSD	16.37895	.4929966	.4854262	3.496409	.5240001	1.996549
#1	.0058439	2.485240	8.526306	.0378928	.3885541	.0088592
#2	.0060896	2.497004	8.584589	.0386017	.3896930	.0085233
#3	.0044337	2.509856	8.606900	.0405283	.3857431	.0086192

Elem	Li6707
Units	ppm
Avg	.1213704
Stddev	.0065933
%RSD	5.432406
#1	.1288296
#2	.1163209
#3	.1189607

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2909.777	35273.33	3381.416	2464.884	3023.134
Stddev	2.710	45.62	14.341	3.876	2.321
%RSD	.0931454	.1293190	.4241079	.1572379	.0767749
#1	2912.251	35272.95	3394.290	2461.849	3023.855
#2	2906.880	35227.91	3365.959	2463.552	3025.008
#3	2910.199	35319.14	3383.999	2469.250	3020.538

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-06 Acquired: 12/16/2024 0:22:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1083383**	**.0405440**	**.4200829**	**-.018096**	**.0181978**	**72.68405**	**1.120881**
Stddev	.0006357	.0013076	.0035102	.002085	.0010137	.06884	.003588
%RSD	.5868045	3.225009	.8355878	11.52364	5.570475	.0947160	.3201003
#1	.1084770	.0420530	.4201084	-.020503	.0172105	72.76252	1.124343
#2	.1076446	.0398339	.4165601	-.016926	.0192360	72.65583	1.117179
#3	.1088931	.0397453	.4235803	-.016858	.0181468	72.63379	1.121120

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0063073**	**.0061714**	**436.8648**	**.1077782**	**.1282027**	**.2658177**	**177.1606**
Stddev	.0000521	.0001472	1.0282	.0002498	.0004649	.0051250	.3153
%RSD	.8255772	2.385564	.2353487	.2317654	.3626577	1.928016	.1779624
#1	.0062870	.0063210	438.0519	.1080234	.1286640	.2709993	177.1396
#2	.0062683	.0061665	436.2800	.1075241	.1277342	.2607512	176.8564
#3	.0063664	.0060267	436.2624	.1077871	.1282100	.2657027	177.4859

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.87126**	**124.9266**	**.1912216**	**-.010492**	**.2152852**	**.1319023**	**.5985558**
Stddev	.02880	.3777	.0015616	.000661	.6891269	.0162018	.0065939
%RSD	.1814448	.3023076	.8166347	6.303208	320.0996	12.28317	1.101626
#1	15.88794	125.0414	.1922770	-.009733	.2115385	.1501424	.6035473
#2	15.83801	124.5049	.1894277	-.010946	-.471961	.1263835	.5910808
#3	15.88784	125.2336	.1919600	-.010797	.906278	.1191809	.6010392

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.338264**	**6.152497**	**.0106097**	**.0014471**	**1.588713**	**7.921059**	**.0251654**
Stddev	.141585	.016807	.0034943	.0001103	.011634	.032349	.0008680
%RSD	1.698013	.2731762	32.93496	7.624441	.7322702	.4083885	3.449158
#1	8.501495	6.166569	.0080471	.0015732	1.590077	7.892409	.0249696
#2	8.264590	6.133887	.0091920	.0014001	1.576458	7.956140	.0244120
#3	8.248707	6.157035	.0145901	.0013681	1.599605	7.914627	.0261146

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-06 Acquired: 12/16/2024 0:22:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3161093	.2312478	.1693170
Stddev	.0011078	.0017517	.0077058
%RSD	.3504610	.7574864	4.551110
#1	.3158375	.2332396	.1781424
#2	.3151626	.2299472	.1639226
#3	.3173277	.2305565	.1658860

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2733.381	32818.76	3187.506	2290.229	2976.388
Stddev	10.461	141.09	11.536	6.851	16.074
%RSD	.3827222	.4299088	.3619225	.2991255	.5400600
#1	2723.312	32655.86	3181.399	2282.813	2960.024
#2	2744.195	32902.29	3180.307	2291.550	2992.156
#3	2732.638	32898.13	3200.812	2296.322	2976.985

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-07 Acquired: 12/16/2024 0:26:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKH4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1251758	.0238130	1.877898	-.006416	.0283399	60.45023
Stddev	.0005680	.0030737	.000746	.004422	.0031041	.22834
%RSD	.4537607	12.90780	.0397447	68.91353	10.95317	.3777326
#1	.1249342	.0214542	1.877882	-.001960	.0251427	60.52390
#2	.1247685	.0226957	1.877159	-.006486	.0285354	60.63265
#3	.1258246	.0272891	1.878652	-.010803	.0313416	60.19416

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.348260	.0062683	.0071784	165.1980	.1182611	.1010063
Stddev	.008695	.0000263	.0000553	.5992	.0016642	.0004128
%RSD	.6448978	.4195750	.7698952	.3627275	1.407190	.4086709
#1	1.351986	.0062976	.0072004	165.6632	.1195994	.1005319
#2	1.354471	.0062466	.0071155	165.4089	.1187861	.1012041
#3	1.338323	.0062609	.0072193	164.5218	.1163977	.1012830

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4831035	177.6788	9.547421	55.37503	.2082913	-.011225
Stddev	.0048077	1.2216	.056614	.21651	.0004854	.000155
%RSD	.9951587	.6875591	.5929813	.3909846	.2330504	1.378265
#1	.4872122	178.2256	9.558739	55.32800	.2083668	-.011089
#2	.4842823	178.5316	9.597521	55.61119	.2077726	-.011194
#3	.4778161	176.2793	9.486002	55.18591	.2087346	-.011394

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0505314	.1716967	1.218795	7.219610	F 14.17114	.0062588
Stddev	.3667150	.0015151	.013876	.240896	.01503	.0012571
%RSD	725.7171	.8824458	1.138504	3.336689	.1060584	20.08536
#1	-.165309	.1727248	1.214088	7.164651	14.17197	.0052509
#2	-.157048	.1699567	1.234412	7.483236	14.15571	.0076675
#3	.473951	.1724087	1.207885	7.010942	14.18574	.0058582

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-07 Acquired: 12/16/2024 0:26:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKH4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0062795	4.835586	7.307746	.1164983	.8936313	.1152481
Stddev	.0001401	.011814	.041649	.0003695	.0121326	.0010062
%RSD	2.230613	.2443101	.5699250	.3172022	1.357678	.8730787
#1	.0063990	4.838995	7.354833	.1163265	.8977881	.1149642
#2	.0063141	4.822443	7.292671	.1169225	.9031393	.1163657
#3	.0061254	4.845320	7.275734	.1162460	.8799667	.1144143

Elem	Li6707
Units	ppm
Avg	.1368138
Stddev	.0034199
%RSD	2.499704
#1	.1381971
#2	.1329190
#3	.1393255

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2722.125	33069.47	3165.186	2312.326	3095.286
Stddev	7.350	110.05	5.988	10.122	7.779
%RSD	.2700194	.3327827	.1891727	.4377201	.2513082
#1	2728.092	33175.74	3163.555	2321.275	3100.363
#2	2724.369	33076.68	3171.819	2314.361	3099.164
#3	2713.915	32955.99	3160.182	2301.342	3086.331

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-08 Acquired: 12/16/2024 0:30:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKH5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1535249**	**.0230622**	**2.012743**	**-.005623**	**.0359271**	**63.62819**
Stddev	.0053447	.0019883	.006092	.004702	.0023174	.16623
%RSD	3.481309	8.621509	.3026848	83.61603	6.450185	.2612557
#1	.1499263	.0251144	2.019269	-.002763	.0340993	63.78541
#2	.1509823	.0229274	2.007204	-.003056	.0351485	63.45421
#3	.1596663	.0211447	2.011757	-.011050	.0385335	63.64496

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.565902**	**.0070697**	**.0088110**	**176.6981**	**.1228244**	**.1097851**
Stddev	.002588	.0001454	.0001642	.2433	.0013803	.0004756
%RSD	.1652463	2.057182	1.864052	.1376681	1.123808	.4332356
#1	1.567641	.0072373	.0086722	176.7222	.1231573	.1101609
#2	1.562928	.0069776	.0087686	176.4437	.1213081	.1092504
#3	1.567135	.0069940	.0089923	176.9285	.1240078	.1099440

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6514823**	**197.1285**	**11.59911**	**60.43994**	**.2225061**	**-.012395**
Stddev	.0075102	.4470	.02957	.04338	.0005045	.000396
%RSD	1.152785	.2267568	.2549568	.0717660	.2267601	3.193143
#1	.6432015	197.6441	11.61610	60.47016	.2227353	-.012040
#2	.6578530	196.8898	11.56496	60.39024	.2219276	-.012323
#3	.6533923	196.8514	11.61627	60.45943	.2228553	-.012821

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.476986**	**.1753082**	**1.297853**	**5.895127**	F **11.01158**	**-.004603**
Stddev	.086207	.0033636	.016298	.188443	.02225	.001311
%RSD	18.07318	1.918704	1.255729	3.196592	.2020865	28.48100
#1	-.396399	.1730403	1.279953	5.775814	11.03500	-.005981
#2	-.466675	.1791728	1.311834	5.797194	10.99072	-.003372
#3	-.567884	.1737115	1.301771	6.112372	11.00902	-.004456

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-08 Acquired: 12/16/2024 0:30:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKH5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053612	4.018445	6.944075	.1569092	.7761700	.0676864
Stddev	.0003985	.012991	.064340	.0018939	.0047624	.0005787
%RSD	7.432633	.3232808	.9265393	1.207003	.6135713	.8550381
#1	.0050662	4.019335	7.015255	.1572368	.7778614	.0680142
#2	.0052029	4.005031	6.890057	.1548728	.7798557	.0670182
#3	.0058145	4.030967	6.926911	.1586179	.7707928	.0680268

Elem	Li6707
Units	ppm
Avg	.1367606
Stddev	.0035672
%RSD	2.608351
#1	.1339413
#2	.1355695
#3	.1407710

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2788.080	33738.75	3196.526	2355.205	3129.026
Stddev	11.350	134.86	23.258	5.183	12.533
%RSD	.4070908	.3997300	.7275931	.2200866	.4005439
#1	2776.289	33868.48	3173.568	2361.147	3116.698
#2	2798.931	33599.28	3220.072	2352.858	3141.754
#3	2789.022	33748.48	3195.939	2351.611	3128.625

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-09 Acquired: 12/16/2024 0:34:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKH6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1113440**	**.0338531**	**1.340524**	**-.006525**	**.0301187**	**68.61753**
Stddev	.0029887	.0005600	.009270	.006592	.0011686	2.73303
%RSD	2.684176	1.654144	.6915352	101.0296	3.879800	3.982990
#1	.1084569	.0344125	1.336806	-.008687	.0295752	70.82897
#2	.1144248	.0338543	1.333690	-.011765	.0314601	65.56204
#3	.1111502	.0332925	1.351076	.000877	.0293210	69.46159

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.224763**	**.0062052**	**.0071074**	**210.6215**	**.1022788**	**.1185351**
Stddev	.087491	.0003075	.0000985	8.3574	.0018415	.0004104
%RSD	3.932609	4.955963	1.385281	3.967964	1.800434	.3462608
#1	2.296244	.0062737	.0070901	217.2290	.1003193	.1181988
#2	2.127196	.0058692	.0072133	201.2266	.1039735	.1189924
#3	2.250849	.0064727	.0070187	213.4088	.1025437	.1184140

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4312816**	**190.9803**	**14.28774**	**47.82735**	**.1898780**	**-.012926**
Stddev	.0151684	7.4080	.58187	1.92002	.0016064	.000981
%RSD	3.517048	3.878913	4.072533	4.014472	.8459952	7.591134
#1	.4441199	197.0430	14.76775	49.39045	.1898260	-.011947
#2	.4145444	182.7230	13.64059	45.68419	.1882983	-.013909
#3	.4351805	193.1749	14.45489	48.40742	.1915097	-.012921

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3368749**	**.1585735**	**1.118350**	**5.278723**	F **16.75511**	**.0140648**
Stddev	.4762922	.0081712	.005354	.420757	.07580	.0030008
%RSD	141.3855	5.152956	.4787467	7.970816	.4524218	21.33590
#1	.0950850	.1679961	1.124520	5.589584	16.70468	.0133504
#2	.0299762	.1534389	1.114925	4.799933	16.71837	.0114856
#3	.8855636	.1542854	1.115604	5.446650	16.84229	.0173584

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-09 Acquired: 12/16/2024 0:34:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKH6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0044910	3.228582	7.607615	.1177707	.6135980	.2172019
Stddev	.0003238	.018997	.295236	.0017616	.0231166	.0091730
%RSD	7.210211	.5883901	3.880796	1.495794	3.767387	4.223271
#1	.0044746	3.219663	7.834813	.1195668	.6326544	.2243022
#2	.0048226	3.215687	7.273902	.1160457	.5878828	.2068449
#3	.0041756	3.250397	7.714130	.1176996	.6202568	.2204588

Elem	Li6707
Units	ppm
Avg	.1435636
Stddev	.0058208
%RSD	4.054545
#1	.1495221
#2	.1378910
#3	.1432778

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2820.668	34383.37	3221.725	2394.832	3073.052
Stddev	4.569	276.81	118.478	20.900	1.100
%RSD	.1619899	.8050756	3.677468	.8726970	.0357973
#1	2821.706	34701.19	3132.194	2416.957	3074.114
#2	2815.670	34253.95	3356.074	2392.115	3071.918
#3	2824.630	34194.98	3176.907	2375.424	3073.126

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-10 Acquired: 12/16/2024 0:37:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKH7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0801513**	**.0309292**	**.9442946**	**-.015094**	**.0167683**	**59.72762**
Stddev	.0041923	.0033086	.0016140	.001887	.0023521	.07571
%RSD	5.230434	10.69736	.1709264	12.50173	14.02680	.1267567
#1	.0758322	.0326957	.9444388	-.016844	.0188345	59.64383
#2	.0842041	.0329797	.9426132	-.013095	.0142087	59.74793
#3	.0804175	.0271123	.9458317	-.015343	.0172618	59.79111

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.966565**	**.0054684**	**.0061199**	**221.2584**	**.0876108**	**.1007529**
Stddev	.003774	.0001818	.0000226	.4070	.0007814	.0007713
%RSD	.1919283	3.324666	.3690594	.1839535	.8919204	.7655420
#1	1.968909	.0055119	.0061177	221.4280	.0868660	.1001576
#2	1.962211	.0056245	.0060985	221.5533	.0884243	.1004769
#3	1.968575	.0052688	.0061435	220.7941	.0875422	.1016242

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3616661**	**148.9707**	**11.32753**	**33.85066**	**.1375478**	**-.010064**
Stddev	.0094714	.2820	.01019	.07487	.0007386	.000544
%RSD	2.618835	.1892985	.0899404	.2211830	.5370143	5.404485
#1	.3513430	149.2643	11.33771	33.89326	.1371700	-.010084
#2	.3699555	148.7020	11.31733	33.89451	.1383990	-.009510
#3	.3636998	148.9458	11.32755	33.76421	.1370745	-.010597

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1141845**	**.1384914**	**.8289762**	**4.609383**	F **14.01272**	**.0286856**
Stddev	.9154259	.0083608	.0075412	.039535	.03579	.0006421
%RSD	801.7076	6.037075	.9097000	.8577118	.2554049	2.238376
#1	-.185312	.1459323	.8366925	4.646604	14.01555	.0293538
#2	1.141846	.1294438	.8286128	4.567882	13.97560	.0280732
#3	-.613980	.1400981	.8216233	4.613664	14.04701	.0286298

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-10 Acquired: 12/16/2024 0:37:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKH7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0025506	3.210644	7.292792	.1058750	.5926786	.3109702
Stddev	.0002151	.011608	.035378	.0021465	.0045161	.0001261
%RSD	8.432187	.3615469	.4851083	2.027422	.7619860	.0405434
#1	.0023775	3.216271	7.288618	.1082601	.5978858	.3108675
#2	.0027914	3.197295	7.330071	.1040984	.5898319	.3109323
#3	.0024830	3.218367	7.259686	.1052666	.5903182	.3111109

Elem	Li6707
Units	ppm
Avg	.1267797
Stddev	.0017125
%RSD	1.350734
#1	.1287530
#2	.1256839
#3	.1259020

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2781.831	33657.56	3243.994	2351.238	3151.063
Stddev	9.991	211.10	13.804	7.646	9.324
%RSD	.3591651	.6271849	.4255341	.3251788	.2959122
#1	2787.287	33899.52	3249.400	2356.751	3155.794
#2	2787.907	33562.12	3228.305	2354.453	3157.074
#3	2770.300	33511.03	3254.278	2342.510	3140.322

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-11 Acquired: 12/16/2024 0:41:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKH8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1066738	.0194518	.2897651	-.012913	.0183995	49.21295	.8712977
Stddev	.0022254	.0017293	.0035020	.004493	.0032640	.06187	.0019921
%RSD	2.086202	8.889906	1.208564	34.79440	17.73948	.1257209	.2286385
#1	.1042138	.0194399	.2917527	-.012883	.0211287	49.28414	.8719060
#2	.1072605	.0177285	.2857215	-.017421	.0192858	49.18252	.8729149
#3	.1085471	.0211869	.2918211	-.008435	.0147839	49.17218	.8690724

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055213	.0047333	134.6868	.0744980	.0963219	.3080883	144.6435
Stddev	.0001046	.0001160	.3168	.0008301	.0008817	.0014656	.3388
%RSD	1.895154	2.451045	.2351873	1.114244	.9154042	.4756970	.2342303
#1	.0055473	.0047224	134.8008	.0736205	.0968964	.3082517	144.3617
#2	.0054061	.0046231	134.9308	.0752707	.0953067	.3094653	145.0194
#3	.0056105	.0048544	134.3288	.0746029	.0967627	.3065479	144.5492

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.305188	33.96899	.1395470	-.009550	-.116040	.1344742	.4050713
Stddev	.025058	.03878	.0003750	.000565	.360167	.0032747	.0058871
%RSD	.3017122	.1141765	.2687443	5.919301	310.3806	2.435171	1.453348
#1	8.312916	33.95613	.1394431	-.010077	.255537	.1330333	.4094822
#2	8.325471	33.93827	.1399630	-.008953	-.140065	.1321671	.3983864
#3	8.277176	34.01257	.1392349	-.009621	-.463594	.1382222	.4073454

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.243913	7.922219	-.009872	.0029593	2.083737	5.997782	.0246092
Stddev	.138978	.026420	.003065	.0001198	.013536	.020943	.0015530
%RSD	6.193578	.3334961	31.04996	4.047339	.6496180	.3491862	6.310604
#1	2.160718	7.912713	-.013223	.0030811	2.079817	6.021082	.0260561
#2	2.166666	7.901866	-.009181	.0029551	2.072594	5.991740	.0248031
#3	2.404355	7.952077	-.007211	.0028416	2.098801	5.980523	.0229683

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-11 Acquired: 12/16/2024 0:41:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKH8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4837551	.0444146	.0959206
Stddev	.0032107	.0002728	.0035115
%RSD	.6637110	.6143188	3.660803
#1	.4874345	.0447283	.0969183
#2	.4815209	.0442826	.0988252
#3	.4823100	.0442328	.0920182

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2852.357	34539.19	3255.424	2410.456	3173.811
Stddev	6.517	26.73	16.072	8.048	10.568
%RSD	.2284764	.0773961	.4937000	.3338715	.3329760
#1	2851.338	34528.03	3238.367	2408.382	3174.054
#2	2859.324	34569.70	3257.622	2419.338	3184.256
#3	2846.410	34519.85	3270.284	2403.648	3163.124

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-12 Acquired: 12/16/2024 0:45:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKH9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0703458	.0436325	.1949610	-.024727	.0117431	45.21833	.9866544
Stddev	.0028737	.0036916	.0001459	.002452	.0008678	.19675	.0060401
%RSD	4.085039	8.460544	.0748506	9.915454	7.389958	.4351215	.6121781
#1	.0699709	.0456828	.1949233	-.025601	.0110828	45.06690	.9827963
#2	.0733885	.0393709	.1951220	-.026622	.0114205	45.44072	.9936153
#3	.0676780	.0458439	.1948376	-.021958	.0127260	45.14736	.9835517

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0035741	.0043131	662.2054	.0839753	.1133802	.2292406	145.7301
Stddev	.0001712	.0001966	2.6414	.0003480	.0010285	.0058955	.9939
%RSD	4.789706	4.558468	.3988811	.4143950	.9070875	2.571743	.6820306
#1	.0035111	.0042628	660.7472	.0839876	.1127060	.2311410	144.7553
#2	.0037678	.0041465	665.2545	.0843170	.1128706	.2339515	146.7421
#3	.0034433	.0045300	660.6146	.0836214	.1145639	.2226293	145.6928

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.27012	198.5156	.1558136	-.011125	.2670310	.1352270	.3125753
Stddev	.06504	.8101	.0007834	.000758	.3640472	.0055000	.0087864
%RSD	.4259343	.4080600	.5027914	6.809207	136.3314	4.067203	2.810984
#1	15.24845	198.0465	.1552522	-.010315	.3412745	.1288872	.3032299
#2	15.34323	199.4510	.1554798	-.011244	-.128415	.1387206	.3138274
#3	15.21869	198.0493	.1567086	-.011817	.588234	.1380731	.3206685

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.104880	6.727713	.0081633	.0012956	1.123748	4.168924	.0199469
Stddev	.067397	.032734	.0009647	.0002574	.003568	.040967	.0005485
%RSD	1.320253	.4865556	11.81763	19.86707	.3175401	.9826835	2.749814
#1	5.115734	6.709759	.0085427	.0010037	1.120030	4.144284	.0193279
#2	5.166192	6.707885	.0070666	.0013930	1.127145	4.216215	.0201404
#3	5.032715	6.765495	.0088807	.0014900	1.124067	4.146273	.0203724

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-12 Acquired: 12/16/2024 0:45:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKH9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7960274	.3835076	.1374429
Stddev	.0101882	.0006853	.0020153
%RSD	1.279876	.1786994	1.466310
#1	.7868556	.3831545	.1397649
#2	.8069935	.3842974	.1364156
#3	.7942330	.3830708	.1361482

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2629.501	31818.75	3159.870	2210.897	2906.864
Stddev	16.906	145.33	24.841	9.862	19.565
%RSD	.6429246	.4567390	.7861413	.4460792	.6730621
#1	2645.256	31651.29	3165.811	2200.164	2924.064
#2	2631.606	31911.81	3132.597	2212.967	2910.949
#3	2611.642	31893.15	3181.202	2219.561	2885.579

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-13 Acquired: 12/16/2024 0:49:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0456435**	**.0312457**	**.1356696**	**-.036753**	**.0126230**	**50.44821**
Stddev	.0084553	.0048787	.0006201	.006056	.0017268	.05356
%RSD	18.52459	15.61387	.4570395	16.47776	13.68012	.1061749
#1	.0466308	.0327760	.1349606	-.043745	.0124036	50.42298
#2	.0367380	.0351757	.1361105	-.033156	.0110163	50.50973
#3	.0535619	.0257853	.1359376	-.033357	.0144491	50.41192

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4030660**	**.0046427**	**.0036054**	F **910.4568**	**.0924632**	**.1011980**
Stddev	.0010745	.0000850	.0001347	2.5047	.0030428	.0011918
%RSD	.2665798	1.831090	3.736839	.2751033	3.290837	1.177745
#1	.4019361	.0047116	.0036526	910.3598	.0936549	.1004708
#2	.4040748	.0045477	.0034534	913.0086	.0890049	.1005497
#3	.4031872	.0046688	.0037102	908.0021	.0947298	.1025735

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1656614**	**152.4531**	**7.478700**	**180.6592**	**.1421029**	**-.012585**
Stddev	.0013052	.3519	.023964	.3956	.0005595	.001242
%RSD	.7878513	.2307997	.3204259	.2189522	.3937257	9.870727
#1	.1644288	152.4719	7.464234	180.3773	.1421299	-.013545
#2	.1655268	152.7951	7.506361	181.1114	.1415304	-.011182
#3	.1670287	152.0921	7.465503	180.4890	.1426484	-.013029

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3213621**	**.1383325**	**.2907649**	**6.666421**	**5.109589**	**.0124550**
Stddev	.4149577	.0097441	.0124212	.125624	.010768	.0023651
%RSD	129.1246	7.044001	4.271911	1.884434	.2107345	18.98958
#1	.7751715	.1327149	.2936330	6.522151	5.111428	.0108551
#2	-.038707	.1326986	.2771605	6.751638	5.098021	.0151718
#3	.227621	.1495841	.3015012	6.725473	5.119319	.0113382

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-13 Acquired: 12/16/2024 0:49:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000469	1.373112	5.594507	.0239916	1.217166	.6270802
Stddev	.0010214	.006082	.069008	.0028515	.004963	.0023330
%RSD	2177.094	.4429395	1.233503	11.88558	.4077358	.3720466
#1	-.000167	1.366521	5.672934	.0269656	1.212052	.6261138
#2	.001158	1.374308	5.567502	.0212808	1.221963	.6297412
#3	-.000851	1.378507	5.543085	.0237283	1.217482	.6253857

Elem	Li6707
Units	ppm
Avg	.1729720
Stddev	.0040397
%RSD	2.335460
#1	.1711176
#2	.1701925
#3	.1776060

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2523.688	30741.56	3015.169	2139.358	2785.933
Stddev	12.416	600.63	14.788	39.279	10.060
%RSD	.4919743	1.953809	.4904431	1.836034	.3611146
#1	2532.090	30617.33	3001.468	2129.260	2792.871
#2	2529.548	31394.59	3013.194	2182.700	2790.533
#3	2509.427	30212.76	3030.845	2106.113	2774.395

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-14 Acquired: 12/16/2024 0:53:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKP0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1236799	.0157386	2.155044	.0007478	.0353439	95.27042
Stddev	.0063238	.0015247	.005434	.0058548	.0008840	.26850
%RSD	5.113052	9.687862	.2521523	782.9452	2.501263	.2818269
#1	.1212644	.0140454	2.161299	.0057551	.0351676	95.30518
#2	.1308555	.0170029	2.152347	.0021778	.0363028	95.51984
#3	.1189199	.0161675	2.151486	-.005690	.0345613	94.98623

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.050333	.0088491	.0102192	97.37961	.1968133	.1219998
Stddev	.004726	.0001449	.0001004	.27249	.0001751	.0003685
%RSD	.2304818	1.637314	.9824540	.2798175	.0889891	.3020637
#1	2.052669	.0087192	.0102529	97.39773	.1966111	.1217076
#2	2.053437	.0088228	.0102983	97.64258	.1969116	.1218780
#3	2.044895	.0090053	.0101062	97.09852	.1969172	.1224138

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4707562	198.8299	9.053437	28.88747	.2720406	-.012094
Stddev	.0048332	.2537	.029287	.09747	.0008690	.000753
%RSD	1.026696	.1275901	.3234912	.3374293	.3194259	6.227057
#1	.4747366	199.0023	9.038881	28.86487	.2730046	-.012962
#2	.4721538	198.9489	9.087150	28.99426	.2717999	-.011703
#3	.4653781	198.5386	9.034279	28.80329	.2713175	-.011616

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7013281	.2517980	2.031312	9.417056	F 17.15773	-.004669
Stddev	.6735076	.0106964	.015029	.114506	.04043	.005697
%RSD	96.03318	4.247993	.7398673	1.215946	.2356385	122.0210
#1	.1015706	.2625293	2.040132	9.295763	17.19682	.001533
#2	.5724519	.2517277	2.013958	9.432123	17.11608	-.005871
#3	1.429962	.2411369	2.039844	9.523284	17.16029	-.009669

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-14 Acquired: 12/16/2024 0:53:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKP0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0108295	5.046890	9.465685	.1118580	1.176500	.2391621
Stddev	.0002755	.016954	.101449	.0009362	.000596	.0010925
%RSD	2.544198	.3359249	1.071758	.8369782	.0506269	.4567807
#1	.0105146	5.062498	9.363636	.1112293	1.176668	.2394384
#2	.0109481	5.049321	9.466895	.1129340	1.175839	.2400899
#3	.0110259	5.028853	9.566524	.1114108	1.176994	.2379581

Elem	Li6707
Units	ppm
Avg	.1957233
Stddev	.0053607
%RSD	2.738919
#1	.1925005
#2	.2019116
#3	.1927580

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2747.440	33512.39	3203.984	2342.745	3148.430
Stddev	5.342	134.84	24.920	10.019	9.870
%RSD	.1944272	.4023496	.7777724	.4276751	.3134857
#1	2741.645	33423.54	3232.016	2334.908	3137.341
#2	2748.507	33446.09	3184.341	2339.293	3151.695
#3	2752.168	33667.54	3195.596	2354.034	3156.253

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-15 Acquired: 12/16/2024 0:57:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKP1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1075730**	**.0085899**	**1.784345**	**.0004591**	**.0265209**	**76.97264**
Stddev	.0027547	.0023970	.009456	.0050170	.0009036	.18859
%RSD	2.560813	27.90479	.5299638	1092.869	3.407131	.2450089
#1	.1102074	.0097528	1.788546	.0062520	.0256842	76.87337
#2	.1047120	.0101837	1.773516	-.002476	.0274791	76.85442
#3	.1077996	.0058333	1.790974	-.002399	.0263996	77.19013

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.632952**	**.0074552**	**.0080758**	**68.84041**	**.1623417**	**.1016324**
Stddev	.006217	.0000883	.0000714	.14608	.0007895	.0004750
%RSD	.3807088	1.184475	.8837401	.2122042	.4863263	.4673628
#1	1.629437	.0075107	.0080018	68.94638	.1621275	.1021227
#2	1.629289	.0075015	.0081443	68.67377	.1632162	.1011744
#3	1.640130	.0073533	.0080812	68.90107	.1616814	.1016000

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4419063**	**160.5088**	**6.813291**	**23.88152**	**.2138562**	**-.009612**
Stddev	.0049252	.4391	.024497	.14119	.0014441	.000374
%RSD	1.114538	.2735751	.3595462	.5912222	.6752552	3.890488
#1	.4365811	160.0982	6.789629	23.88219	.2151091	-.010012
#2	.4462978	160.4566	6.811699	23.73999	.2122768	-.009554
#3	.4428399	160.9717	6.838545	24.02237	.2141825	-.009271

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4277382**	**.2003362**	**1.837305**	**6.054032**	F **12.86000**	**-.004463**
Stddev	.2221973	.0021078	.003480	.099837	.05632	.002213
%RSD	51.94703	1.052116	.1894271	1.649094	.4379249	49.58429
#1	.2012403	.2006330	1.836527	6.168623	12.89022	-.006704
#2	.4366050	.1980957	1.841108	5.985833	12.79502	-.002279
#3	.6453694	.2022798	1.834279	6.007638	12.89476	-.004407

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-15 Acquired: 12/16/2024 0:57:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKP1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0108784	3.580975	8.080595	.0920010	.8139628	.2100990
Stddev	.0000938	.019943	.025765	.0011469	.0041584	.0011442
%RSD	.8621551	.5569156	.3188483	1.246639	.5108864	.5445821
#1	.0108369	3.585867	8.058652	.0933069	.8108349	.2090612
#2	.0108126	3.559041	8.108965	.0911576	.8123716	.2099098
#3	.0109858	3.598017	8.074169	.0915384	.8186818	.2113259

Elem	Li6707
Units	ppm
Avg	.1671743
Stddev	.0068765
%RSD	4.113347
#1	.1595484
#2	.1690712
#3	.1729031

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2701.365	32691.05	3119.759	2276.004	3221.683
Stddev	9.723	139.91	18.303	5.709	7.728
%RSD	.3599433	.4279754	.5866928	.2508436	.2398599
#1	2712.393	32704.61	3131.612	2272.376	3226.445
#2	2697.677	32823.68	3128.987	2282.585	3225.836
#3	2694.025	32544.85	3098.679	2273.051	3212.767

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: CCV034 Acquired: 12/16/2024 1:10:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV034 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.877388**	**4.692970**	**23.68058**	**4.567165**	**4.655977**	**377.4860**	**9.684380**
Stddev	.004327	.011348	.06324	.024648	.013198	2.7813	.078811
%RSD	.0887169	.2418122	.2670654	.5396770	.2834653	.7367967	.8137946
#1	4.882379	4.700726	23.69547	4.542264	4.641898	374.5191	9.597460
#2	4.874681	4.679945	23.61123	4.567681	4.657962	377.9047	9.704500
#3	4.875106	4.698238	23.73505	4.591551	4.668069	380.0342	9.751181

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4724303**	**2.381797**	**386.7878**	**14.63811**	**2.390258**	**14.35341**	**382.9220**
Stddev	.0015987	.005636	2.4696	.03533	.005517	.14870	2.7520
%RSD	.3383964	.2366167	.6384768	.2413327	.2308158	1.035962	.7186935
#1	.4728816	2.382872	384.1498	14.61950	2.391829	14.18649	379.8500
#2	.4706545	2.375701	387.1691	14.61599	2.384126	14.40205	383.7537
#3	.4737549	2.386817	389.0445	14.67886	2.394820	14.47170	385.1622

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.03506**	**377.2298**	**2.393853**	**1.191130**	**380.3358**	**2.342397**	**14.73281**
Stddev	.11819	3.0746	.007460	.004473	3.4630	.007966	.13756
%RSD	.8421185	.8150585	.3116338	.3755182	.9105181	.3400923	.9336939
#1	13.90553	373.7221	2.395558	1.185973	376.3835	2.336040	14.58638
#2	14.06258	378.5088	2.385688	1.193960	381.7854	2.339818	14.85932
#3	14.13706	379.4585	2.400314	1.193456	382.8384	2.351333	14.75273

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**144.7533**	**4.794614**	**4.614524**	**4.580286**	**4.850379**	**4.702266**	**4.801805**
Stddev	.9847	.011572	.007235	.009022	.022419	.012044	.016985
%RSD	.6802630	.2413556	.1567863	.1969664	.4622170	.2561297	.3537213
#1	143.6165	4.800282	4.608363	4.570959	4.840844	4.703684	4.799429
#2	145.3002	4.781300	4.612720	4.580931	4.834303	4.689575	4.786133
#3	145.3432	4.802259	4.622491	4.588968	4.875989	4.713538	4.819853

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: CCV034 Acquired: 12/16/2024 1:10:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV034 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	**4.754263**	**4.548710**	**4.958323**
Stddev	.041527	.042181	.056924
%RSD	.8734639	.9273178	1.148041
#1	4.707000	4.501204	4.893979
#2	4.770887	4.563156	4.978869
#3	4.784903	4.581770	5.002121

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1985.500**	**25910.93**	**2618.098**	**1712.081**	**2605.536**
Stddev	2.401	63.70	13.527	2.589	7.896
%RSD	.1209072	.2458352	.5166880	.1512001	.3030517
#1	1986.884	25948.40	2621.303	1711.112	2600.953
#2	1986.889	25947.00	2629.735	1715.014	2614.654
#3	1982.728	25837.38	2603.256	1710.116	2601.002

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: CCB034 Acquired: 12/16/2024 1:13:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB034 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003512**	**.0011630**	**.0010343**	**-.003453**	**-.003121**	**-.003373**
Stddev	.001152	.0009743	.0016755	.005615	.002218	.004732
%RSD	32.80294	83.77131	162.0018	162.6054	71.07202	140.2987
#1	-.004704	.0001669	.0019474	-.005007	-.004647	.000030
#2	-.003428	.0021140	.0020549	.002775	-.000577	-.001372
#3	-.002404	.0012082	-.000899	-.008128	-.004138	-.008777

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009457**	**.0000632**	**.0000197**	**-.007759**	**.0004376**	**-.000103**
Stddev	.0010385	.0001441	.0000486	.052513	.0001746	.000321
%RSD	109.8142	227.9948	247.3475	676.7813	39.89946	310.1712
#1	.0009754	-.000049	.0000672	.041565	.0005875	-.000343
#2	-.000107	.000013	.0000218	-.001878	.0004794	.000261
#3	.001969	.000226	-.000030	-.062965	.0002459	-.000228

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003088**	**-.008792**	**.0009327**	**.0396013**	**.0004204**	**.0000972**
Stddev	.000288	.009677	.0016485	.0629004	.0009170	.0009862
%RSD	9.329751	110.0609	176.7491	158.8341	218.1229	1014.319
#1	-.002816	-.008162	.0026513	.0609510	-.000417	.0006982
#2	-.003057	.000554	-.000635	-.031195	.001400	-.001041
#3	-.003390	-.018769	.000782	.089048	.000278	.000634

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.782416**	**-.015147**	**-.007498**	**.9564078**	**.0007505**	**.0105304**
Stddev	.220966	.004341	.004838	.2041207	.0025677	.0012539
%RSD	28.24148	28.66127	64.51526	21.34243	342.1320	11.90751
#1	-.980189	-.016279	-.010567	.9839242	-.001867	.0119188
#2	-.823139	-.010352	-.010006	.7399248	.003265	.0094805
#3	-.543922	-.018810	-.001922	1.145375	.000854	.0101918

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: CCB034 Acquired: 12/16/2024 1:13:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB034 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000104	-.004235	.0018573	-.000008	.0005059	.0002961
Stddev	.000460	.004943	.0015712	.001442	.0007908	.0000720
%RSD	441.7568	116.7199	84.59206	17893.86	156.2933	24.31300
#1	-.000134	-.001384	.0031287	.001569	.0014032	.0002408
#2	-.000548	-.009942	.0023425	-.001258	.0002039	.0002700
#3	.000370	-.001378	.0001008	-.000336	-.000089	.0003774

Elem	Li6707
Units	ppm
Avg	F .0266391
Stddev	.0076965
%RSD	28.89190
#1	.0231266
#2	.0354652
#3	.0213254

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2360.664	28543.76	2676.826	1983.522	3269.339
Stddev	5.259	69.75	20.677	6.017	4.560
%RSD	.2227638	.2443485	.7724612	.3033744	.1394880
#1	2364.394	28511.04	2673.094	1976.608	3272.350
#2	2362.948	28496.39	2699.115	1987.577	3271.575
#3	2354.649	28623.85	2658.268	1986.380	3264.093

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-16 Acquired: 12/16/2024 1:17:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKP2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1494901	.0147204	1.735663	.0095857	.0365284	97.30369
Stddev	.0035862	.0003422	.004544	.0016820	.0022544	.19383
%RSD	2.398945	2.324551	.2617887	17.54733	6.171696	.1992015
#1	.1508839	.0143441	1.736080	.0115069	.0341018	97.44825
#2	.1521702	.0148041	1.730925	.0083780	.0385579	97.37940
#3	.1454163	.0150129	1.739984	.0088723	.0369254	97.08344

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.152436	.0091330	.0100842	80.69547	.1885397	.1268227
Stddev	.002717	.0000514	.0000108	.27207	.0005338	.0003615
%RSD	.1262501	.5624280	.1070010	.3371581	.2831297	.2850809
#1	2.150900	.0091812	.0100906	80.61892	.1891488	.1266633
#2	2.155574	.0091388	.0100717	80.99761	.1881531	.1265683
#3	2.150835	.0090790	.0100902	80.46987	.1883172	.1272366

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4715342	208.1266	9.658136	29.16675	.2506658	-.013712
Stddev	.0032514	.0519	.015062	.06680	.0006958	.001691
%RSD	.6895432	.0249151	.1559525	.2290325	.2775846	12.33026
#1	.4752194	208.1845	9.674553	29.22190	.2510300	-.015502
#2	.4690703	208.1106	9.654898	29.09247	.2511038	-.013495
#3	.4703128	208.0846	9.644955	29.18588	.2498634	-.012141

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2381420	.2582450	1.707110	6.697820	F 15.21154	-.010229
Stddev	.4485095	.0111027	.011772	.113931	.05432	.004411
%RSD	188.3370	4.299300	.6895929	1.701012	.3571238	43.12031
#1	-.275844	.2700750	1.715960	6.597546	15.17709	-.006399
#2	.440136	.2480511	1.693750	6.674206	15.18337	-.015051
#3	.550134	.2566090	1.711621	6.821707	15.27416	-.009236

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-16 Acquired: 12/16/2024 1:17:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKP2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0100600	3.714007	9.161503	.0796207	.8423528	.2142207
Stddev	.0001622	.017200	.038023	.0024201	.0062835	.0008097
%RSD	1.612207	.4631242	.4150262	3.039551	.7459419	.3779955
#1	.0101820	3.694179	9.178296	.0769140	.8490146	.2151309
#2	.0098759	3.724920	9.188238	.0803722	.8415114	.2139510
#3	.0101221	3.722922	9.117975	.0815760	.8365325	.2135802

Elem	Li6707
Units	ppm
Avg	.2030574
Stddev	.0030922
%RSD	1.522814
#1	.2013151
#2	.2066277
#3	.2012296

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2809.911	34038.58	3260.998	2385.556	3168.201
Stddev	3.520	71.96	9.553	3.284	5.101
%RSD	.1252779	.2114021	.2929575	.1376806	.1610170
#1	2806.022	34121.52	3263.840	2389.097	3162.547
#2	2810.832	34001.47	3250.346	2384.960	3169.596
#3	2812.880	33992.75	3268.807	2382.610	3172.460

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-17 Acquired: 12/16/2024 1:21:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKP3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1183133	.0194782	.7600752	.0039143	.0302042	100.4171
Stddev	.0048937	.0014382	.0065319	.0010833	.0013638	.2613
%RSD	4.136260	7.383491	.8593721	27.67667	4.515269	.2601971
#1	.1167519	.0189018	.7654581	.0041532	.0294115	100.6912
#2	.1237972	.0211152	.7528084	.0027314	.0317790	100.1709
#3	.1143908	.0184177	.7619591	.0048582	.0294222	100.3891

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.762471	.0089216	.0086653	97.53369	.2113272	.1174361
Stddev	.005810	.0002186	.0001588	.12655	.0008562	.0008027
%RSD	.3296664	2.450529	1.832031	.1297543	.4051455	.6835622
#1	1.768015	.0090226	.0087486	97.59477	.2113987	.1172047
#2	1.756427	.0086707	.0087651	97.38818	.2104375	.1167745
#3	1.762972	.0090715	.0084822	97.61811	.2121454	.1183291

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2524372	187.6454	9.069418	30.78370	.2157990	-.011550
Stddev	.0027809	.2553	.017318	.17268	.0014448	.000691
%RSD	1.101642	.1360679	.1909464	.5609462	.6695057	5.978324
#1	.2497395	187.7432	9.061840	30.96053	.2157597	-.010806
#2	.2522774	187.3556	9.057181	30.61550	.2143742	-.011674
#3	.2552946	187.8373	9.089233	30.77508	.2172630	-.012171

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4366241	.2232596	.9548689	5.939837	F 13.17765	-.013893
Stddev	.9020197	.0123914	.0238999	.015238	.05845	.001527
%RSD	206.5895	5.550200	2.502951	.2565409	.4435629	10.99398
#1	1.473651	.2110027	.9722818	5.952881	13.17517	-.012553
#2	-.165976	.2357812	.9647041	5.943541	13.12048	-.013569
#3	.002197	.2229950	.9276206	5.923088	13.23730	-.015556

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-17 Acquired: 12/16/2024 1:21:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKP3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0089522	4.096738	8.545420	.0467871	.7244627	.2146562
Stddev	.0006842	.021965	.100127	.0014807	.0034212	.0005950
%RSD	7.643367	.5361696	1.171703	3.164649	.4722329	.2772068
#1	.0083274	4.108866	8.514569	.0452700	.7234174	.2149528
#2	.0088458	4.071382	8.464350	.0468629	.7282845	.2139712
#3	.0096834	4.109966	8.657342	.0482284	.7216861	.2150447

Elem	Li6707
Units	ppm
Avg	.2056410
Stddev	.0117457
%RSD	5.711730
#1	.1934724
#2	.2065384
#3	.2169123

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2928.022	35353.09	3350.824	2489.368	3163.783
Stddev	8.015	81.37	29.483	16.546	8.762
%RSD	.2737278	.2301643	.8798759	.6646741	.2769420
#1	2937.102	35261.58	3351.891	2472.760	3172.583
#2	2925.033	35380.38	3379.760	2489.492	3163.706
#3	2921.932	35417.31	3320.823	2505.852	3155.060

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-18 Acquired: 12/16/2024 1:25:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKP4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0761791	.0227194	.3777044	-.012312	.0259915	83.06281	1.386218
Stddev	.0057027	.0034252	.0011868	.004472	.0027827	.54112	.008484
%RSD	7.485920	15.07621	.3142066	36.32160	10.70611	.6514617	.6120394
#1	.0770049	.0265129	.3769893	-.009183	.0262815	82.92377	1.383036
#2	.0701085	.0198534	.3790744	-.017434	.0230752	83.65989	1.395833
#3	.0814239	.0217920	.3770496	-.010318	.0286179	82.60478	1.379785

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0072002	.0063078	168.2750	.1896712	.1101111	.1881450	172.8904
Stddev	.0000933	.0000971	1.3517	.0009065	.0006398	.0064001	.6739
%RSD	1.295298	1.538910	.8032835	.4779446	.5810253	3.401702	.3897572
#1	.0072639	.0062626	167.8059	.1904790	.1104084	.1807567	172.7544
#2	.0072435	.0064192	169.7988	.1898439	.1105481	.1916916	173.6218
#3	.0070931	.0062416	167.2203	.1886907	.1093768	.1919866	172.2949

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.872222	40.23176	.2037050	-.012533	.0747573	.1783441	.6201761
Stddev	.039857	.19477	.0006092	.000421	.3759150	.0045120	.0110113
%RSD	.5063034	.4841218	.2990634	3.361537	502.8471	2.529921	1.775506
#1	7.853211	40.04617	.2041218	-.012440	-.277305	.1769892	.6252194
#2	7.918026	40.43457	.2039873	-.012993	.470678	.1833782	.6277624
#3	7.845430	40.21453	.2030058	-.012167	.030899	.1746648	.6075464

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.146242	9.828551	-.012261	.0079847	2.571092	6.198647	.0316788
Stddev	.192181	.017450	.002931	.0002988	.009240	.047609	.0023646
%RSD	4.635056	.1775470	23.90958	3.742050	.3593807	.7680581	7.464393
#1	4.323229	9.824426	-.015325	.0082752	2.581007	6.244641	.0329974
#2	4.173679	9.847694	-.011974	.0076783	2.569548	6.201727	.0289489
#3	3.941817	9.813533	-.009483	.0080005	2.562721	6.149572	.0330901

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-18 Acquired: 12/16/2024 1:25:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKP4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7810234	.1468490	.1782510
Stddev	.0033136	.0010509	.0041188
%RSD	.4242630	.7156241	2.310658
#1	.7799526	.1465702	.1800537
#2	.7847400	.1480111	.1735383
#3	.7783776	.1459656	.1811612

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2845.295	34398.93	3298.380	2391.734	3101.740
Stddev	8.357	83.50	12.652	3.369	10.262
%RSD	.2937158	.2427263	.3835752	.1408603	.3308560
#1	2854.917	34486.28	3288.736	2388.922	3112.767
#2	2839.845	34390.61	3293.699	2390.812	3092.468
#3	2841.124	34319.91	3312.705	2395.468	3099.987

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-19 Acquired: 12/16/2024 1:29:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKP5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0501824	.0307673	.1665518	-.022573	.0167866	67.12606	.9272823
Stddev	.0027298	.0021426	.0015494	.003032	.0013268	.39497	.0047363
%RSD	5.439742	6.963779	.9302560	13.43046	7.904085	.5884003	.5107730
#1	.0528946	.0332208	.1658690	-.020931	.0178406	66.68235	.9227580
#2	.0474354	.0298161	.1654612	-.026072	.0152967	67.25656	.9268835
#3	.0502171	.0292650	.1683253	-.020716	.0172225	67.43926	.9322054

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047400	.0034957	343.7112	.1117653	.1145772	.1320710	159.7905
Stddev	.0001930	.0000536	1.6021	.0006766	.0002973	.0087008	.9700
%RSD	4.071769	1.534443	.4661280	.6053337	.2594480	6.587966	.6070313
#1	.0045173	.0035323	341.8880	.1111884	.1142370	.1374255	158.9230
#2	.0048584	.0035207	344.3507	.1125100	.1147075	.1220316	159.6107
#3	.0048442	.0034341	344.8947	.1115976	.1147870	.1367559	160.8378

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.36662	79.67079	.2143671	-.012455	-.603852	.1398226	.3160640
Stddev	.06484	.49787	.0018336	.000666	.367413	.0059614	.0108701
%RSD	.6254229	.6249033	.8553416	5.345559	60.84494	4.263542	3.439206
#1	10.31034	79.17468	.2126619	-.011825	-.776571	.1426158	.3279248
#2	10.35200	79.66731	.2141330	-.013152	-.181905	.1329774	.3065769
#3	10.43751	80.17039	.2163065	-.012389	-.853079	.1438746	.3136904

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.014509	5.898902	-.016503	.0069489	.6510419	7.120730	.0215055
Stddev	.119446	.033270	.001865	.0005327	.0035038	.087742	.0010572
%RSD	2.975370	.5640021	11.30003	7.665587	.5381789	1.232207	4.915965
#1	4.063395	5.868383	-.014575	.0069600	.6482376	7.026349	.0208916
#2	3.878374	5.893956	-.018298	.0074759	.6499186	7.136018	.0208986
#3	4.101758	5.934368	-.016636	.0064107	.6549696	7.199824	.0227262

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-19 Acquired: 12/16/2024 1:29:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKP5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.045570	.3116460	.1776932
Stddev	.013827	.0013571	.0012846
%RSD	1.322390	.4354658	.7229021
#1	1.031097	.3101178	.1790675
#2	1.046968	.3121094	.1765228
#3	1.058644	.3127107	.1774891

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2575.929	31480.32	2998.894	2174.918	3000.271
Stddev	8.014	206.34	37.136	14.214	1.788
%RSD	.3111125	.6554484	1.238331	.6535300	.0596076
#1	2566.686	31390.87	3030.448	2170.023	2999.404
#2	2580.162	31716.29	3008.264	2190.933	3002.327
#3	2580.939	31333.80	2957.970	2163.799	2999.081

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-20 Acquired: 12/16/2024 1:33:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKP6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0532195	.0320776	.1358837	-.016876	.0213336	76.70597	1.310430
Stddev	.0026055	.0010373	.0012971	.004485	.0032635	.57383	.008258
%RSD	4.895675	3.233668	.9545964	26.57818	15.29725	.7480899	.6301643
#1	.0560452	.0320949	.1344735	-.021645	.0176983	76.29265	1.305092
#2	.0509121	.0310317	.1361517	-.012742	.0240107	76.46413	1.306256
#3	.0527014	.0331060	.1370259	-.016241	.0222920	77.36113	1.319942

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0051095	.0039863	354.6246	.1204356	.1274986	.1704690	178.5128
Stddev	.0002318	.0000535	3.0264	.0003532	.0004894	.0074649	1.3602
%RSD	4.537337	1.341363	.8534088	.2933130	.3838657	4.379016	.7619614
#1	.0049748	.0039263	352.6425	.1201008	.1269551	.1688060	177.4270
#2	.0049766	.0040040	353.1231	.1204013	.1279045	.1786251	178.0728
#3	.0053772	.0040287	358.1081	.1208048	.1276363	.1639758	180.0385

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.14626	89.40286	.2460564	-.013905	-.456287	.1529898	.3403527
Stddev	.11908	.78378	.0017478	.000416	.607764	.0043018	.0083621
%RSD	.9058311	.8766877	.7103325	2.992723	133.1977	2.811821	2.456886
#1	13.05436	88.95060	.2450528	-.013559	-.222724	.1516814	.3355184
#2	13.10363	88.95008	.2450418	-.013789	.000049	.1577939	.3355313
#3	13.28079	90.30789	.2480746	-.014367	-1.14619	.1494941	.3500084

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.420199	6.170852	-.019811	.0030473	.5677543	7.701563	.0226017
Stddev	.183663	.036630	.002133	.0001539	.0022677	.085307	.0002634
%RSD	3.388492	.5935954	10.76685	5.049885	.3994153	1.107658	1.165242
#1	5.223398	6.134246	-.017571	.0030798	.5669329	7.645818	.0228526
#2	5.450160	6.170803	-.020045	.0031824	.5703183	7.659103	.0226252
#3	5.587040	6.207506	-.021818	.0028798	.5660118	7.799768	.0223274

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-20 Acquired: 12/16/2024 1:33:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKP6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.191994	.3411278	.2039475
Stddev	.008296	.0027935	.0033230
%RSD	.6959616	.8188884	1.629329
#1	1.184425	.3387594	.2070774
#2	1.190693	.3404155	.2004603
#3	1.200863	.3442084	.2043047

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2575.726	31386.03	3010.446	2175.397	2965.174
Stddev	8.229	167.78	24.510	14.303	15.291
%RSD	.3194772	.5345591	.8141645	.6574908	.5156887
#1	2581.025	31571.59	3027.737	2191.873	2974.097
#2	2579.906	31245.03	3021.204	2168.149	2973.907
#3	2566.246	31341.46	2982.397	2166.168	2947.518

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-21 Acquired: 12/16/2024 1:36:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKP8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0516798	.0347181	.1314163	-.021155	.0237921	74.94761	1.229086
Stddev	.0035311	.0014089	.0003056	.004386	.0038424	.14641	.003302
%RSD	6.832622	4.058163	.2325563	20.73215	16.14976	.1953504	.2686356
#1	.0484379	.0335497	.1310991	-.022196	.0260713	75.00886	1.226362
#2	.0511592	.0362827	.1314409	-.024926	.0259492	74.78053	1.228137
#3	.0554423	.0343220	.1317088	-.016342	.0193559	75.05346	1.232758

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050475	.0038796	351.2322	.1141224	.1295654	.1643966	180.2798
Stddev	.0001088	.0000197	1.0630	.0011319	.0010660	.0047097	.5029
%RSD	2.154503	.5070617	.3026544	.9917832	.8227530	2.864831	.2789605
#1	.0050965	.0038816	351.2894	.1140286	.1297078	.1654915	180.0033
#2	.0051231	.0038589	350.1418	.1152982	.1284354	.1592359	179.9758
#3	.0049228	.0038981	352.2655	.1130403	.1305531	.1684623	180.8603

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.79293	87.96985	.2419557	-.013483	-.476573	.1560838	.3209644
Stddev	.02661	.23863	.0008211	.000546	.343031	.0043533	.0168299
%RSD	.2079966	.2712665	.3393698	4.047525	71.97876	2.789093	5.243544
#1	12.76894	87.81253	.2426546	-.013010	-.821818	.1526116	.3015556
#2	12.78831	87.85260	.2410514	-.013359	-.472102	.1609678	.3315174
#3	12.82155	88.24443	.2421613	-.014081	-.135799	.1546721	.3298201

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.447189	6.044446	-.020924	.0034998	.4735447	6.374242	.0233599
Stddev	.073612	.017423	.005355	.0005133	.0099239	.063261	.0015478
%RSD	1.351373	.2882425	25.59348	14.66597	2.095661	.9924427	6.626004
#1	5.369546	6.051152	-.021971	.0031509	.4639958	6.417642	.0246634
#2	5.456054	6.024667	-.025678	.0040892	.4728331	6.403425	.0237671
#3	5.515967	6.057519	-.015122	.0032594	.4838053	6.301657	.0216492

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-21 Acquired: 12/16/2024 1:36:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKP8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	**1.245277**	**.3291638**	**.1940918**
Stddev	.005718	.0006233	.0016832
%RSD	.4591762	.1893470	.8671990
#1	1.239068	.3284671	.1923521
#2	1.246435	.3293556	.1942111
#3	1.250327	.3296685	.1957121

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2572.597**	**31322.41**	**3016.947**	**2183.762**	**2971.885**
Stddev	5.805	249.57	7.792	14.943	10.833
%RSD	.2256456	.7967639	.2582737	.6842681	.3645195
#1	2572.453	31528.97	3007.956	2199.671	2969.335
#2	2578.472	31393.15	3021.732	2181.591	2983.765
#3	2566.865	31045.11	3021.152	2170.023	2962.554

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-22 Acquired: 12/16/2024 1:40:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKP9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0499430	.0404331	.1571125	-.027468	.0178778	53.30450	1.130630
Stddev	.0064704	.0021320	.0028068	.003167	.0018683	.16884	.003795
%RSD	12.95556	5.272940	1.786491	11.52820	10.45057	.3167485	.3356594
#1	.0471206	.0411954	.1603294	-.029215	.0169504	53.22515	1.131901
#2	.0453632	.0420791	.1551621	-.023813	.0166546	53.49841	1.133627
#3	.0573451	.0380247	.1558461	-.029376	.0200284	53.18996	1.126363

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046256	.0057100	745.8807	.1015560	.1136182	.1642806	166.6062
Stddev	.0001374	.0000257	1.6138	.0009198	.0009205	.0043564	.5785
%RSD	2.970155	.4502682	.2163600	.9057287	.8101361	2.651788	.3472256
#1	.0044926	.0056936	745.1554	.1024915	.1139202	.1681217	166.1142
#2	.0047670	.0057397	747.7298	.1006527	.1125847	.1595472	167.2435
#3	.0046172	.0056969	744.7568	.1015237	.1143498	.1651729	166.4611

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.83156	132.4586	.1760063	-.013326	.1706203	.1393143	.3650914
Stddev	.06691	.4018	.0003791	.000652	.4266697	.0027267	.0106104
%RSD	.4837536	.3033266	.2153639	4.892376	250.0697	1.957213	2.906231
#1	13.78087	132.3898	.1755689	-.012682	.0718038	.1374373	.3689386
#2	13.90740	132.8903	.1762104	-.013985	-.197971	.1424420	.3732415
#3	13.80642	132.0956	.1762395	-.013312	.638028	.1380637	.3530941

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.757752	5.393385	.0183931	.0006325	1.235233	6.159779	.0269797
Stddev	.099713	.021110	.0023052	.0005065	.004846	.020726	.0013868
%RSD	1.285336	.3913989	12.53294	80.08506	.3922771	.3364774	5.140150
#1	7.782478	5.385237	.0210538	.0004254	1.235846	6.139644	.0283097
#2	7.842776	5.377564	.0169962	.0012098	1.230111	6.181050	.0255424
#3	7.648002	5.417355	.0171293	.0002623	1.239743	6.158645	.0270870

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5034-22 Acquired: 12/16/2024 1:40:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKP9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.190585	.5132295	.1702511
Stddev	.003189	.0019356	.0038704
%RSD	.2678762	.3771510	2.273331
#1	1.191229	.5125915	.1723702
#2	1.193403	.5154037	.1657840
#3	1.187123	.5116935	.1725993

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2528.940	30683.30	3028.357	2127.678	2792.833
Stddev	12.969	120.64	21.186	8.419	10.716
%RSD	.5128310	.3931673	.6996037	.3956709	.3836879
#1	2541.454	30821.64	3052.345	2136.586	2802.002
#2	2529.806	30628.22	3020.520	2126.596	2795.443
#3	2515.559	30600.03	3012.205	2119.853	2781.053

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-01 Acquired: 12/16/2024 1:44:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK34 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0458291**	**.0406356**	**.7941011**	**-.050835**	**-.002506**	**30.14463**
Stddev	.0036638	.0026017	.0100573	.004413	.003007	.24511
%RSD	7.994566	6.402529	1.266501	8.681316	120.0009	.8131228
#1	.0466783	.0397168	.8043795	-.047858	.000660	30.22305
#2	.0418153	.0386179	.7842806	-.048742	-.002853	29.86990
#3	.0489939	.0435720	.7936433	-.055906	-.005325	30.34093

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4673939**	**.0028033**	**.0048345**	F **1122.600**	**.0655322**	**.0888810**
Stddev	.0036528	.0001711	.0000345	11.132	.0010071	.0003564
%RSD	.7815162	6.103609	.7140002	.9916602	1.536861	.4010028
#1	.4698325	.0030008	.0048280	1129.010	.0645318	.0884695
#2	.4631942	.0027079	.0048036	1109.745	.0655189	.0890780
#3	.4691549	.0027011	.0048718	1129.044	.0665460	.0890953

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1130305**	**92.88419**	**7.334248**	**521.1377**	**.0893110**	**-.006041**
Stddev	.0083359	.83203	.062323	5.0711	.0009252	.000981
%RSD	7.374908	.8957727	.8497587	.9730866	1.035942	16.24376
#1	.1166447	93.30931	7.358174	523.3736	.0902536	-.004921
#2	.1034975	91.92548	7.263507	515.3329	.0884043	-.006750
#3	.1189494	93.41777	7.381064	524.7067	.0892750	-.006451

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.099573**	**.0701990**	**.7614594**	**7.604610**	**6.202393**	**.0671525**
Stddev	.585263	.0109037	.0269973	.171794	.023848	.0040300
%RSD	587.7708	15.53251	3.545469	2.259079	.3844922	6.001251
#1	-.005995	.0618154	.7926218	7.598365	6.226503	.0679882
#2	-.725987	.0825257	.7451481	7.436023	6.178816	.0627701
#3	.433263	.0662560	.7466084	7.779441	6.201861	.0706991

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-01 Acquired: 12/16/2024 1:44:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK34 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026129	23.77979	5.607631	.0283893	.3935341	.5771472
Stddev	.0005102	.11347	.035590	.0015392	.0031034	.0054678
%RSD	19.52721	.4771707	.6346729	5.421740	.7886057	.9473773
#1	.0023680	23.89863	5.566580	.0281028	.3936082	.5793160
#2	.0022712	23.67258	5.626498	.0270136	.3903943	.5709278
#3	.0031994	23.76817	5.629815	.0300517	.3965998	.5811980

Elem	Li6707
Units	ppm
Avg	.1406845
Stddev	.0049914
%RSD	3.547952
#1	.1447887
#2	.1421369
#3	.1351280

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2286.422	28123.61	2841.424	1937.408	2612.926
Stddev	7.933	120.51	18.074	3.439	13.820
%RSD	.3469787	.4284878	.6360810	.1774971	.5289179
#1	2278.072	28015.01	2850.737	1933.736	2596.979
#2	2287.334	28253.25	2852.942	1940.552	2621.427
#3	2293.861	28102.57	2820.593	1937.936	2620.372

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-02 Acquired: 12/16/2024 1:48:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK35 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0804987**	**.0414086**	**1.717934**	**-.041405**	**.0114609**	**55.20494**
Stddev	.0047727	.0068621	.004446	.008785	.0022679	.16966
%RSD	5.928944	16.57162	.2587886	21.21793	19.78817	.3073244
#1	.0857866	.0477867	1.713057	-.031627	.0088999	55.15263
#2	.0791991	.0341480	1.718988	-.048634	.0122677	55.39460
#3	.0765103	.0422911	1.721759	-.043954	.0132151	55.06760

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9877511**	**.0050983**	**.0086560**	F **1104.004**	**.1055472**	**.1170329**
Stddev	.0026829	.0001493	.0000661	2.797	.0003284	.0003591
%RSD	.2716151	2.928641	.7637676	.2533405	.3111686	.3068645
#1	.9852083	.0051696	.0086759	1104.854	.1056555	.1166698
#2	.9905550	.0051987	.0085822	1106.278	.1058077	.1173880
#3	.9874898	.0049267	.0087098	1100.881	.1051782	.1170408

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2609602**	**142.9848**	**11.25986**	**450.6316**	**.1526277**	**-.009307**
Stddev	.0087602	.3929	.01855	.9213	.0001441	.000867
%RSD	3.356905	.2747749	.1647728	.2044564	.0944055	9.316620
#1	.2700424	143.3081	11.26808	450.5308	.1524906	-.010086
#2	.2525621	143.0988	11.27288	451.5992	.1527779	-.008372
#3	.2602761	142.5476	11.23862	449.7648	.1526148	-.009463

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0620660**	**.1347989**	**1.403139**	**8.128705**	**6.892814**	**.0340960**
Stddev	.3563598	.0047164	.004350	.086211	.004457	.0029939
%RSD	574.1632	3.498850	.3100261	1.060574	.0646557	8.780887
#1	-.265896	.1306229	1.408098	8.029418	6.891427	.0315324
#2	.010818	.1399143	1.399967	8.184588	6.897799	.0373864
#3	.441275	.1338594	1.401352	8.172109	6.889215	.0333693

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-02 Acquired: 12/16/2024 1:48:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK35 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0099107	15.75494	7.258974	.0531795	.6363392	.6185405
Stddev	.0005119	.00676	.074616	.0014366	.0035248	.0026682
%RSD	5.164742	.0429052	1.027915	2.701354	.5539111	.4313658
#1	.0095958	15.76120	7.270842	.0544511	.6396037	.6158184
#2	.0105013	15.75585	7.326945	.0516212	.6368120	.6211512
#3	.0096349	15.74777	7.179136	.0534662	.6326019	.6186518

Elem	Li6707
Units	ppm
Avg	.1752762
Stddev	.0060558
%RSD	3.454986
#1	.1797656
#2	.1776744
#3	.1683886

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2347.840	28538.64	2859.358	1964.587	2607.021
Stddev	8.890	100.66	33.442	4.837	7.366
%RSD	.3786671	.3527199	1.169575	.2462251	.2825278
#1	2356.483	28422.48	2835.637	1959.007	2615.141
#2	2338.721	28593.05	2844.830	1967.160	2600.769
#3	2348.318	28600.38	2897.608	1967.594	2605.153

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-03 Acquired: 12/16/2024 1:52:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK36 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2850236	.0269575	.6723494	.0028481	.0372303	90.37096	.9178000
Stddev	.0027755	.0024090	.0005517	.0053723	.0014320	.05764	.0039107
%RSD	.9737906	8.936487	.0820512	188.6314	3.846327	.0637840	.4260929
#1	.2823809	.0296416	.6729781	.0031834	.0382210	90.32994	.9168888
#2	.2847746	.0249830	.6719464	-.002684	.0378814	90.43686	.9220858
#3	.2879152	.0262478	.6721237	.008045	.0355884	90.34607	.9144254

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0080367	.0091606	153.1714	.1077834	.1728252	.3934787	228.3116
Stddev	.0000993	.0000541	.1002	.0006199	.0008841	.0049790	.5634
%RSD	1.235743	.5907073	.0653962	.5751594	.5115747	1.265379	.2467870
#1	.0079261	.0091845	153.2443	.1084475	.1721185	.3880307	227.7217
#2	.0080660	.0090987	153.0572	.1076830	.1738166	.3946122	228.8443
#3	.0081181	.0091986	153.2126	.1072199	.1725406	.3977933	228.3688

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.52566	32.08713	.2243791	-.013069	-.140692	.1707881	.6625631
Stddev	.02797	.03024	.0005531	.000535	.374666	.0063496	.0141100
%RSD	.2232795	.0942473	.2465172	4.093364	266.3021	3.717841	2.129613
#1	12.53180	32.06148	.2249466	-.013354	.285610	.1649134	.6788255
#2	12.55005	32.07943	.2238416	-.012452	-.290009	.1775246	.6552946
#3	12.49513	32.12047	.2243491	-.013400	-.417678	.1699261	.6535693

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.231497	4.987420	-.043376	.0077664	1.484069	9.015927	.0353843
Stddev	.038813	.008904	.001659	.0002453	.003075	.052287	.0021878
%RSD	.4715137	.1785376	3.823859	3.158860	.2072319	.5799356	6.182844
#1	8.221812	4.987653	-.041538	.0078123	1.485770	8.969168	.0330401
#2	8.198443	4.978401	-.043830	.0079854	1.485919	9.006230	.0357411
#3	8.274235	4.996205	-.044760	.0075013	1.480519	9.072383	.0373718

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-03 Acquired: 12/16/2024 1:52:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK36 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5462869	.1652231	.1194402
Stddev	.0030372	.0004120	.0028953
%RSD	.5559785	.2493398	2.424073
#1	.5491365	.1652199	.1166300
#2	.5430917	.1656367	.1224137
#3	.5466326	.1648127	.1192768

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3116.529	37729.36	3632.997	2631.788	3053.574
Stddev	7.872	130.44	19.357	6.555	7.734
%RSD	.2525941	.3457197	.5328089	.2490645	.2532884
#1	3112.313	37844.97	3652.353	2633.845	3049.973
#2	3125.612	37755.16	3633.000	2637.068	3062.453
#3	3111.663	37587.95	3613.639	2624.451	3048.297

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-04 Acquired: 12/16/2024 1:56:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK37 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1595060	.0231378	.4505489	.0165652	.0358999	85.67749	.8589146
Stddev	.0031044	.0026128	.0029870	.0015618	.0016588	.49928	.0042928
%RSD	1.946235	11.29251	.6629678	9.428295	4.620758	.5827475	.4997932
#1	.1604274	.0212069	.4525447	.0183657	.0343803	85.17846	.8545400
#2	.1620453	.0220956	.4471148	.0155767	.0376696	85.67700	.8590830
#3	.1560452	.0261109	.4519871	.0157532	.0356498	86.17702	.8631206

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0073707	.0071593	49.05243	.1124242	.1464958	.3064531	212.0755
Stddev	.0000597	.0001081	.17989	.0012520	.0004424	.0011547	1.1222
%RSD	.8104207	1.510160	.3667349	1.113611	.3020241	.3767867	.5291618
#1	.0074351	.0070401	48.88514	.1130963	.1466798	.3077542	210.8395
#2	.0073598	.0071867	49.02944	.1109797	.1459911	.3055502	212.3565
#3	.0073172	.0072510	49.24272	.1131967	.1468166	.3060550	213.0305

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.35077	24.72587	.1955052	-.012815	.1895519	.1800212	.4596301
Stddev	.09942	.17756	.0006449	.000559	.1089809	.0038854	.0098278
%RSD	.5729768	.7181138	.3298501	4.358450	57.49398	2.158323	2.138188
#1	17.24647	24.57799	.1954642	-.013221	.2632566	.1755371	.4532595
#2	17.36140	24.67681	.1948818	-.013045	.0643675	.1821352	.4709484
#3	17.44445	24.92280	.1961696	-.012178	.2410316	.1823912	.4546823

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.106845	2.887046	-.045787	.0051592	.9643695	9.176491	.0244380
Stddev	.080961	.001904	.000773	.0005805	.0063016	.076901	.0014761
%RSD	1.325735	.0659490	1.689162	11.25081	.6534390	.8380192	6.039978
#1	6.116088	2.886342	-.045206	.0054726	.9694137	9.088606	.0254148
#2	6.182788	2.885594	-.046665	.0044894	.9573058	9.231427	.0251590
#3	6.021660	2.889201	-.045489	.0055156	.9663890	9.209440	.0227400

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-04 Acquired: 12/16/2024 1:56:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK37 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6821397	.0180645	.1022972
Stddev	.0035771	.0004441	.0016725
%RSD	.5243980	2.458687	1.634952
#1	.6781630	.0175997	.1036500
#2	.6850953	.0181093	.1028144
#3	.6831607	.0184846	.1004271

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3084.708	37382.66	3550.337	2597.892	3144.385
Stddev	21.596	265.75	30.782	18.332	21.065
%RSD	.7001058	.7108795	.8670051	.7056627	.6699385
#1	3095.258	37270.81	3567.021	2591.547	3157.625
#2	3099.000	37686.05	3569.175	2618.554	3155.435
#3	3059.864	37191.13	3514.815	2583.575	3120.093

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-05 Acquired: 12/16/2024 1:59:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK38 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0899110	.0202580	.7895901	-.005006	.0282627	82.17936	.8747759
Stddev	.0011542	.0019205	.0030074	.002622	.0006908	.24727	.0023631
%RSD	1.283737	9.480311	.3808833	52.37817	2.444206	.3008916	.2701330
#1	.0888389	.0214015	.7915645	-.007718	.0289459	81.96608	.8733225
#2	.0897614	.0180408	.7861289	-.004818	.0275645	82.12160	.8775025
#3	.0911327	.0213318	.7910770	-.002484	.0282775	82.45039	.8735027

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0065424	.0058189	93.45594	.1015803	.1211466	.1627995	177.3632
Stddev	.0000445	.0001074	.32186	.0008013	.0007581	.0090256	.0341
%RSD	.6794980	1.845202	.3443933	.7888495	.6257438	5.544019	.0192112
#1	.0065431	.0059087	93.19473	.1024389	.1219761	.1558996	177.3980
#2	.0065866	.0058481	93.35759	.1008523	.1209741	.1594852	177.3299
#3	.0064977	.0057000	93.81549	.1014498	.1204897	.1730138	177.3618

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.27005	31.52380	.1256054	-.011529	-.380174	.1714236	.6415086
Stddev	.02674	.12667	.0004288	.000277	.125576	.0114964	.0121772
%RSD	.2179480	.4018194	.3413738	2.403386	33.03120	6.706431	1.898216
#1	12.26813	31.42428	.1260788	-.011446	-.269237	.1651623	.6365795
#2	12.29770	31.66639	.1254944	-.011303	-.516507	.1644171	.6325686
#3	12.24432	31.48073	.1252430	-.011838	-.354779	.1846916	.6553776

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.435001	2.704320	-.039918	.0048578	1.219213	10.20802	.0317653
Stddev	.129906	.002206	.001628	.0001539	.004979	.04246	.0009639
%RSD	3.781828	.0815842	4.079385	3.167795	.4083518	.4159145	3.034451
#1	3.314116	2.703408	-.038466	.0047458	1.215321	10.21448	.0309102
#2	3.572357	2.706837	-.039611	.0050333	1.224823	10.24687	.0315758
#3	3.418530	2.702717	-.041679	.0047943	1.217493	10.16270	.0328098

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-05 Acquired: 12/16/2024 1:59:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK38 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6576715	.0360950	.1009588
Stddev	.0069374	.0003059	.0033122
%RSD	1.054843	.8475540	3.280731
#1	.6578594	.0362028	.1014609
#2	.6645131	.0363323	.1039912
#3	.6506421	.0357497	.0974242

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2567.030	31172.11	2911.587	2163.163	3138.163
Stddev	3.477	300.95	3.127	20.693	5.633
%RSD	.1354400	.9654398	.1074133	.9565879	.1794893
#1	2564.142	31189.34	2913.444	2163.195	3131.913
#2	2570.889	31464.07	2907.976	2183.840	3139.731
#3	2566.058	30862.91	2913.340	2142.455	3142.846

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-06 Acquired: 12/16/2024 2:03:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK39 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0963391	.0103024	.5727948	.0132334	.0346360	99.13895	.7057493
Stddev	.0015668	.0024727	.0023396	.0026919	.0028079	.42452	.0048402
%RSD	1.626306	24.00115	.4084602	20.34174	8.106745	.4282027	.6858191
#1	.0949363	.0131298	.5704356	.0115568	.0365962	99.58762	.7110761
#2	.0960512	.0085446	.5728344	.0118050	.0314193	99.08559	.7045508
#3	.0980299	.0092327	.5751143	.0163384	.0358925	98.74363	.7016210

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0073366	.0044024	29.34786	.1125940	.1135489	.1463192	191.9811
Stddev	.0001274	.0000908	.03697	.0006416	.0004996	.0067049	1.0870
%RSD	1.736738	2.062603	.1259682	.5698455	.4399907	4.582402	.5662164
#1	.0074824	.0044556	29.38581	.1118621	.1140905	.1540360	193.0639
#2	.0072805	.0042976	29.34582	.1128601	.1134500	.1430030	191.9894
#3	.0072469	.0044541	29.31196	.1130598	.1131061	.1419185	190.8899

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.61178	21.55525	.1336525	-.013702	.1387986	.1893388	.5916342
Stddev	.07967	.10030	.0002659	.000640	.3052341	.0024740	.0290409
%RSD	.6861285	.4653242	.1989374	4.669784	219.9116	1.306632	4.908583
#1	11.69925	21.64348	.1333954	-.014334	-.209937	.1909884	.6244130
#2	11.59274	21.57611	.1336357	-.013055	.268947	.1905338	.5813713
#3	11.54335	21.44616	.1339264	-.013716	.357386	.1864942	.5691183

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.758828	1.962551	-.040318	.0032355	.6466467	9.289201	.0251974
Stddev	.143901	.004420	.001844	.0000536	.0047824	.074960	.0021132
%RSD	5.216003	.2252210	4.573417	1.656760	.7395628	.8069600	8.386533
#1	2.922876	1.957692	-.038191	.0032051	.6517052	9.224387	.0238050
#2	2.653919	1.966334	-.041307	.0032039	.6460357	9.371291	.0276290
#3	2.699690	1.963627	-.041456	.0032974	.6421993	9.271925	.0241582

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-06 Acquired: 12/16/2024 2:03:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK39 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5599236	-.046441	.1064456
Stddev	.0068991	.000166	.0021185
%RSD	1.232145	.3568879	1.990186
#1	.5673173	-.046559	.1045297
#2	.5536583	-.046513	.1060864
#3	.5587951	-.046252	.1087207

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2697.375	32379.93	3043.757	2260.200	3262.249
Stddev	1.429	197.64	26.568	15.536	3.677
%RSD	.0529798	.6103779	.8728584	.6873926	.1127203
#1	2698.445	32157.94	3043.948	2244.269	3259.338
#2	2697.927	32445.07	3017.094	2261.021	3261.028
#3	2695.752	32536.78	3070.229	2275.310	3266.381

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-07 Acquired: 12/16/2024 2:07:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK40 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1509601	.0270139	1.118351	.0103920	.0411542	106.6250	.8450680
Stddev	.0016112	.0030030	.003503	.0018807	.0017577	.2678	.0014950
%RSD	1.067267	11.11664	.3132392	18.09716	4.271009	.2511243	.1769025
#1	.1523388	.0301406	1.114681	.0090707	.0399765	106.9107	.8466972
#2	.1513525	.0241521	1.118714	.0095602	.0403115	106.5846	.8437594
#3	.1491890	.0267490	1.121658	.0125452	.0431745	106.3797	.8447474

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0087626	.0077663	90.66894	.1586365	.1596959	.2912329	244.0259
Stddev	.0001333	.0000533	.21746	.0005426	.0000322	.0021118	.7150
%RSD	1.521341	.6861427	.2398434	.3420294	.0201947	.7251306	.2929985
#1	.0086284	.0077144	90.83408	.1587838	.1596715	.2934422	244.5823
#2	.0088950	.0077637	90.75020	.1590902	.1597324	.2910220	243.2194
#3	.0087643	.0078208	90.42255	.1580354	.1596836	.2892344	244.2759

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.86638	33.99658	.2088502	-.017245	.0799598	.2201436	.9666239
Stddev	.05331	.03984	.0009736	.000617	.2845183	.0030613	.0115970
%RSD	.3160486	.1171780	.4661703	3.578932	355.8267	1.390610	1.199744
#1	16.90997	34.03242	.2092563	-.017750	-.224221	.2166464	.9751551
#2	16.80695	33.95369	.2095551	-.017429	.339549	.2223384	.9534194
#3	16.88222	34.00363	.2077393	-.016557	.124551	.2214461	.9712973

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.523235	3.581411	-.044990	.0048164	1.519196	9.068756	.0406193
Stddev	.113195	.000822	.002492	.0002161	.002380	.083113	.0012915
%RSD	2.502518	.0229524	5.539744	4.486076	.1566375	.9164785	3.179441
#1	4.559082	3.582309	-.043899	.0050016	1.520943	9.079215	.0416603
#2	4.614166	3.581231	-.047842	.0048688	1.520160	9.146144	.0391741
#3	4.396457	3.580695	-.043229	.0045790	1.516486	8.980908	.0410235

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-07 Acquired: 12/16/2024 2:07:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK40 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7288719	-.008677	.1323049
Stddev	.0030528	.000343	.0026730
%RSD	.4188440	3.956633	2.020306
#1	.7312159	-.008453	.1293344
#2	.7254198	-.009072	.1330644
#3	.7299801	-.008505	.1345159

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2937.967	35537.64	3381.393	2486.370	3171.227
Stddev	1.902	171.98	9.901	14.744	2.410
%RSD	.0647351	.4839428	.2928105	.5929809	.0759893
#1	2938.255	35358.22	3371.010	2470.340	3168.448
#2	2935.937	35553.64	3382.440	2489.417	3172.739
#3	2939.707	35701.07	3390.729	2499.351	3172.494

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-08 Acquired: 12/16/2024 2:11:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK40D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1527340	.0255485	1.145217	.0153781	.0414077	107.8526	.8546623
Stddev	.0056234	.0024032	.006581	.0020712	.0020513	.4242	.0035371
%RSD	3.681827	9.406477	.5746505	13.46826	4.953966	.3933073	.4138588
#1	.1464042	.0229133	1.151527	.0131089	.0437663	107.6508	.8506161
#2	.1571532	.0276193	1.145727	.0171669	.0404175	107.5669	.8562033
#3	.1546445	.0261128	1.138395	.0158584	.0400393	108.3400	.8571674

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0088217	.0081079	91.74670	.1611531	.1629239	.2930087	247.1479
Stddev	.0000385	.0000809	.22056	.0004034	.0005497	.0049480	.6327
%RSD	.4368822	.9978803	.2403967	.2503058	.3374211	1.688703	.2560119
#1	.0088445	.0082012	91.49674	.1607535	.1633207	.2964030	246.4596
#2	.0087772	.0080655	91.82945	.1611456	.1631547	.2952918	247.2798
#3	.0088435	.0080571	91.91392	.1615602	.1622964	.2873313	247.7043

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.05108	34.35160	.2135344	-.016172	-.084582	.2130927	.9862639
Stddev	.08250	.17351	.0008936	.001946	.352882	.0031359	.0082904
%RSD	.4838680	.5050896	.4184655	12.03470	417.2065	1.471608	.8405857
#1	16.96810	34.21393	.2125468	-.018414	-.339024	.2136276	.9840667
#2	17.05205	34.29438	.2137693	-.015179	-.232987	.2097237	.9954315
#3	17.13310	34.54649	.2142870	-.014922	.318265	.2159267	.9792934

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.701426	3.661856	-.052881	.0050330	1.552605	9.221424	.0422153
Stddev	.088562	.007671	.003277	.0006007	.013934	.061383	.0022374
%RSD	1.883736	.2094707	6.197652	11.93596	.8974515	.6656574	5.300052
#1	4.800113	3.668737	-.054018	.0050538	1.567673	9.240322	.0426379
#2	4.628866	3.653586	-.049186	.0056231	1.540185	9.152814	.0397967
#3	4.675298	3.663245	-.055438	.0044221	1.549956	9.271135	.0442113

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-08 Acquired: 12/16/2024 2:11:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK40D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7427541	-.008493	.1341962
Stddev	.0004762	.000690	.0068159
%RSD	.0641127	8.123303	5.079056
#1	.7425876	-.008417	.1377859
#2	.7432912	-.009218	.1263357
#3	.7423834	-.007845	.1384670

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2909.722	35286.69	3369.362	2468.564	3122.080
Stddev	9.688	122.81	12.399	14.101	13.354
%RSD	.3329554	.3480361	.3679811	.5712179	.4277203
#1	2900.262	35403.16	3372.267	2482.079	3106.979
#2	2909.281	35158.39	3380.050	2453.942	3126.933
#3	2919.623	35298.51	3355.768	2469.671	3132.329

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-07LX5 Acquired: 12/16/2024 2:28:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK40L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0284829**	**.0063023**	**.2315749**	**-.008216**	**.0079379**	**25.25716**	**.2012389**
Stddev	.0069796	.0003210	.0016028	.003174	.0015583	.05053	.0011033
%RSD	24.50466	5.093022	.6921080	38.63813	19.63164	.2000779	.5482585
#1	.0243879	.0063430	.2330948	-.011545	.0097369	25.23152	.2012361
#2	.0245187	.0066010	.2299005	-.005223	.0070038	25.31537	.2001369
#3	.0365419	.0059629	.2317293	-.007879	.0070730	25.22458	.2023435

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0022273**	**.0014445**	**21.77897**	**.0383150**	**.0433289**	**.0658785**	**58.51237**
Stddev	.0000708	.0000271	.14432	.0007396	.0003546	.0078265	.19700
%RSD	3.179047	1.877392	.6626541	1.930329	.8183272	11.88014	.3366733
#1	.0023053	.0014739	21.73202	.0388134	.0429195	.0603955	58.30151
#2	.0022094	.0014206	21.66397	.0386664	.0435376	.0748415	58.54391
#3	.0021672	.0014390	21.94092	.0374652	.0435296	.0623987	58.69170

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.066297**	**8.258480**	**.0435701**	**-.002311**	**-.416743**	**.0448709**	**.2370298**
Stddev	.010071	.047073	.0003931	.000244	.902039	.0065836	.0110349
%RSD	.2476792	.5699999	.9021900	10.54842	216.4500	14.67223	4.655473
#1	4.054670	8.307071	.0431319	-.002296	-.696842	.0524500	.2301780
#2	4.071910	8.213087	.0436869	-.002561	-1.14550	.0405703	.2311520
#3	4.072312	8.255284	.0438916	-.002075	.59212	.0415923	.2497593

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6055202**	**.7072569**	**-.027612**	**.0002683**	**.3029157**	**2.221915**	**.0094181**
Stddev	.0601704	.0023289	.001252	.0001981	.0023793	.005222	.0010626
%RSD	9.936982	.3292882	4.534127	73.82200	.7854624	.2350032	11.28270
#1	.6734806	.7057012	-.026258	.0001055	.3055710	2.221733	.0086979
#2	.5840510	.7061350	-.028727	.0004888	.3009773	2.227224	.0106385
#3	.5590291	.7099344	-.027852	.0002107	.3021988	2.216786	.0089179

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-07LX5 Acquired: 12/16/2024 2:28:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK40L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1713810	-.002569	.0612098
Stddev	.0078669	.000127	.0050287
%RSD	4.590281	4.947673	8.215459
#1	.1622976	-.002697	.0557241
#2	.1758460	-.002443	.0623042
#3	.1759994	-.002569	.0656012

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2411.778	30336.12	2762.944	2042.101	3177.747
Stddev	5.455	52.88	14.210	4.707	8.411
%RSD	.2261701	.1743215	.5142909	.2304918	.2646873
#1	2409.593	30284.75	2756.389	2038.029	3170.543
#2	2417.986	30333.22	2753.196	2047.254	3186.990
#3	2407.755	30390.40	2779.248	2041.021	3175.710

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-09 Acquired: 12/16/2024 2:32:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK40S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2337439	.1235711	1.152445	.1546256	.1823290	109.5518	4.301921
Stddev	.0061432	.0002128	.002832	.0050951	.0019811	.2125	.012098
%RSD	2.628180	.1721852	.2457453	3.295116	1.086574	.1939763	.2812320
#1	.2300425	.1234339	1.154983	.1604673	.1846162	109.7818	4.312399
#2	.2408352	.1234632	1.149390	.1511001	.1811441	109.5108	4.304684
#3	.2303539	.1238162	1.152961	.1523093	.1812269	109.3627	4.288680

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0908651	.1047728	90.91590	.5247565	1.310148	.7086304	246.3882
Stddev	.0003385	.0001908	.32776	.0011636	.001746	.0043005	1.2392
%RSD	.3724723	.1820921	.3605120	.2217443	.1333030	.6068794	.5029460
#1	.0906535	.1048403	91.28247	.5248727	1.311995	.7046618	247.5217
#2	.0906863	.1049207	90.65108	.5235391	1.308524	.7131997	246.5777
#3	.0912555	.1045574	90.81415	.5258576	1.309925	.7080299	245.0652

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.72482	34.03180	1.260890	.0510816	.0429208	1.084246	1.699017
Stddev	.06585	.08583	.001295	.0009632	.4297037	.003905	.007659
%RSD	.3715080	.2522056	.1026698	1.885636	1001.155	.3601564	.4507716
#1	17.78065	34.06786	1.261296	.0501099	.4404713	1.082288	1.707170
#2	17.74160	34.09372	1.261933	.0510987	-.412974	1.081707	1.697906
#3	17.65220	33.93382	1.259441	.0520361	.101265	1.088743	1.691974

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.011190	3.550231	-.095795	.0020624	1.558157	9.006946	.0420300
Stddev	.036806	.009727	.003001	.0003138	.006187	.061865	.0019214
%RSD	.6122989	.2739816	3.132732	15.21528	.3970599	.6868559	4.571437
#1	6.023443	3.551526	-.095254	.0017022	1.551041	8.983939	.0439909
#2	5.969820	3.559245	-.093101	.0022080	1.562258	8.959881	.0401507
#3	6.040307	3.539921	-.099029	.0022769	1.561173	9.077018	.0419485

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-09 Acquired: 12/16/2024 2:32:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK40S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7267799	-.011596	.1272005
Stddev	.0034022	.000259	.0061341
%RSD	.4681262	2.234378	4.822378
#1	.7297822	-.011778	.1340024
#2	.7230844	-.011299	.1255108
#3	.7274729	-.011710	.1220884

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2864.234	35428.80	3287.914	2402.505	3105.282
Stddev	11.498	168.19	5.819	13.799	11.646
%RSD	.4014284	.4747241	.1769831	.5743538	.3750501
#1	2852.284	35455.92	3294.631	2402.803	3093.315
#2	2865.198	35248.70	3284.390	2388.559	3105.951
#3	2875.220	35581.78	3284.722	2416.152	3116.579

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-10 Acquired: 12/16/2024 2:36:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKD2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0868242	.0173316	2.663329	-.019204	.0282531	79.37054
Stddev	.0051663	.0038303	.012583	.005872	.0028571	.65418
%RSD	5.950334	22.09990	.4724491	30.57433	10.11256	.8242151
#1	.0904099	.0217286	2.652044	-.012859	.0257070	80.00727
#2	.0891604	.0155458	2.661045	-.020307	.0277092	79.40414
#3	.0809025	.0147203	2.676897	-.024446	.0313430	78.70019

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.794810	.0070564	.0101452	168.2592	.1721195	.1235970
Stddev	.012651	.0001976	.0001687	1.0777	.0007537	.0005753
%RSD	.7048413	2.799621	1.662514	.6405233	.4378672	.4654967
#1	1.808463	.0072392	.0099796	169.2657	.1714313	.1239170
#2	1.792480	.0070833	.0101392	168.3897	.1720023	.1229328
#3	1.783486	.0068469	.0103168	167.1221	.1729249	.1239413

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4391335	171.4852	6.901807	38.77712	.2589222	-.010229
Stddev	.0050080	1.3854	.052215	.30441	.0012427	.001025
%RSD	1.140426	.8078765	.7565372	.7850146	.4799619	10.02492
#1	.4442578	172.8996	6.956679	39.05321	.2574874	-.009529
#2	.4388921	171.4251	6.896008	38.82748	.2596180	-.011406
#3	.4342506	170.1308	6.852734	38.45067	.2596611	-.009752

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1134520	.2071350	2.120152	13.65538	F 18.33250	-.011507
Stddev	.6137170	.0090192	.023252	.18853	.07092	.003417
%RSD	540.9485	4.354257	1.096723	1.380612	.3868389	29.69578
#1	.8117831	.2049491	2.111528	13.87208	18.27419	-.010984
#2	-.131316	.2170463	2.102444	13.52904	18.31188	-.015155
#3	-.340111	.1994098	2.146484	13.56502	18.41145	-.008381

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-10 Acquired: 12/16/2024 2:36:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKD2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045613	5.314864	8.110384	.1320701	1.029116	.3089687
Stddev	.0001550	.033082	.134523	.0011784	.009806	.0027673
%RSD	3.398720	.6224439	1.658647	.8922533	.9528747	.8956715
#1	.0046523	5.280766	8.159629	.1328766	1.033312	.3119652
#2	.0043823	5.317000	8.213344	.1326160	1.036125	.3084318
#3	.0046493	5.346827	7.958178	.1307178	1.017910	.3065092

Elem	Li6707
Units	ppm
Avg	.1828331
Stddev	.0027558
%RSD	1.507289
#1	.1841076
#2	.1847210
#3	.1796707

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2633.092	32452.84	3052.934	2222.316	3103.854
Stddev	11.565	70.34	38.367	11.774	14.530
%RSD	.4391990	.2167554	1.256713	.5298114	.4681376
#1	2637.599	32469.40	3034.878	2221.826	3108.954
#2	2641.723	32513.43	3026.927	2234.328	3115.146
#3	2619.952	32375.70	3096.997	2210.796	3087.461

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-11 Acquired: 12/16/2024 2:40:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKD3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1035276**	**.0121233**	**2.301944**	**-.013820**	**.0525356**	**73.50524**
Stddev	.0040485	.0018183	.009507	.001438	.0007042	.23178
%RSD	3.910577	14.99828	.4129860	10.40787	1.340419	.3153256
#1	.1025879	.0142226	2.302512	-.013831	.0517234	73.35183
#2	.1079634	.0111040	2.292167	-.012377	.0529066	73.39202
#3	.1000316	.0110433	2.311155	-.015254	.0529766	73.77187

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.808321**	**.0086359**	**.0104295**	**180.4507**	**.2734136**	**.1337806**
Stddev	.006107	.0001735	.0000782	.5725	.0010069	.0003020
%RSD	.3377415	2.008839	.7493360	.3172680	.3682662	.2257569
#1	1.806259	.0084761	.0105195	180.3905	.2725490	.1335090
#2	1.803512	.0086111	.0103903	179.9106	.2745191	.1337269
#3	1.815193	.0088204	.0103787	181.0509	.2731726	.1341058

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5068856**	**276.5964**	**6.932853**	**32.74673**	**.2727707**	**-.020326**
Stddev	.0137458	.8317	.032356	.22726	.0010515	.000858
%RSD	2.711822	.3006936	.4667091	.6940079	.3854864	4.221430
#1	.5227493	276.4770	6.931009	32.69359	.2736013	-.020096
#2	.4985004	275.8309	6.901458	32.55074	.2715884	-.021276
#3	.4994070	277.4814	6.966092	32.99585	.2731222	-.019606

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3254019**	**.2172207**	**1.956977**	**9.244694**	F **17.29901**	**-.079693**
Stddev	1.196728	.0021344	.014421	.262747	.05261	.006451
%RSD	367.7691	.9825853	.7368882	2.842134	.3041116	8.095412
#1	1.263848	.2181440	1.968088	9.496661	17.28481	-.079882
#2	.734612	.2147801	1.962163	8.972354	17.25496	-.073150
#3	-1.02225	.2187380	1.940681	9.265066	17.35726	-.086048

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-11 Acquired: 12/16/2024 2:40:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKD3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053901	3.846090	9.140535	.3651933	.9890564	.2922559
Stddev	.0001383	.009432	.048744	.0014814	.0106603	.0014394
%RSD	2.566591	.2452439	.5332750	.4056426	1.077823	.4925212
#1	.0055060	3.839102	9.099103	.3664846	.9809660	.2928772
#2	.0052369	3.842350	9.128259	.3655192	.9850672	.2906102
#3	.0054273	3.856819	9.194244	.3635761	1.001136	.2932803

Elem	Li6707
Units	ppm
Avg	.1739118
Stddev	.0054953
%RSD	3.159834
#1	.1764927
#2	.1676011
#3	.1776416

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2581.034	31944.09	2993.340	2177.522	3035.516
Stddev	9.034	95.30	17.749	7.980	5.539
%RSD	.3500052	.2983377	.5929534	.3664521	.1824800
#1	2571.836	31976.01	3011.019	2175.945	3029.133
#2	2581.371	31836.93	2993.480	2170.449	3038.354
#3	2589.894	32019.34	2975.522	2186.173	3039.061

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-12 Acquired: 12/16/2024 2:44:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKD4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0932648	.0197924	2.054577	-.016085	.0402537	73.55918
Stddev	.0024645	.0016431	.012346	.007247	.0028759	.21301
%RSD	2.642508	8.301457	.6008895	45.05766	7.144470	.2895795
#1	.0952290	.0202053	2.045853	-.016113	.0423031	73.77882
#2	.0940661	.0211895	2.049176	-.023318	.0369661	73.54523
#3	.0904993	.0179822	2.068703	-.008823	.0414920	73.35348

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.622223	.0066681	.0077515	124.4279	.1515663	.1184412
Stddev	.009029	.0001579	.0001090	.3775	.0013291	.0006134
%RSD	.5565899	2.368619	1.406821	.3034077	.8769301	.5178982
#1	1.631864	.0067047	.0076800	124.6783	.1501207	.1181704
#2	1.620842	.0064951	.0078770	124.6117	.1518427	.1180098
#3	1.613964	.0068046	.0076974	123.9936	.1527355	.1191434

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3857880	153.8943	6.676922	32.69037	.2152100	-.009953
Stddev	.0050848	.7557	.019896	.19449	.0007492	.000488
%RSD	1.318020	.4910489	.2979828	.5949591	.3481193	4.899734
#1	.3916114	154.6344	6.699077	32.85739	.2144657	-.009462
#2	.3822276	153.9244	6.671110	32.73689	.2152004	-.009961
#3	.3835249	153.1239	6.660579	32.47684	.2159640	-.010437

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2362290	.2009845	1.706798	9.239635	F 15.22234	-.015328
Stddev	.3117758	.0032985	.035316	.072375	.10703	.002086
%RSD	131.9803	1.641199	2.069160	.7833119	.7031295	13.61034
#1	.4210333	.2037181	1.710063	9.318140	15.12728	-.015974
#2	.4113894	.2019147	1.740368	9.175565	15.20146	-.012995
#3	-.123736	.1973207	1.669962	9.225199	15.33827	-.017014

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-12 Acquired: 12/16/2024 2:44:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKD4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0037400	3.520947	8.995991	2.948385	1.028744	.3212126
Stddev	.0005947	.034956	.074843	.018162	.005424	.0011047
%RSD	15.90044	.9928061	.8319586	.6160025	.5271964	.3439245
#1	.0032107	3.484988	9.022330	2.932162	1.034526	.3223078
#2	.0036258	3.523046	8.911539	2.944987	1.023770	.3212317
#3	.0043835	3.554806	9.054103	2.968006	1.027935	.3200985

Elem	Li6707
Units	ppm
Avg	.1687286
Stddev	.0015736
%RSD	.9325955
#1	.1669769
#2	.1691867
#3	.1700223

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2630.530	32467.53	3057.783	2215.816	3111.373
Stddev	8.712	106.11	22.593	15.635	11.048
%RSD	.3312034	.3268074	.7388747	.7056114	.3550762
#1	2631.340	32454.26	3040.566	2210.823	3116.879
#2	2638.809	32368.68	3083.366	2203.288	3118.585
#3	2621.441	32579.64	3049.417	2233.338	3098.654

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: CCV035 Acquired: 12/16/2024 3:04:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV035 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.633866**	**4.656270**	**23.37756**	**4.625787**	**4.583277**	**369.4012**	**9.641832**
Stddev	.015405	.006102	.05459	.013913	.019428	.4780	.028145
%RSD	.3324419	.1310479	.2335198	.3007674	.4238986	.1293851	.2919030
#1	4.621818	4.651284	23.35171	4.612497	4.584196	369.7398	9.629953
#2	4.651223	4.654451	23.34069	4.624616	4.563405	368.8545	9.621575
#3	4.628557	4.663074	23.44028	4.640249	4.602230	369.6094	9.673969

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4659313**	**2.345344**	**381.8063**	**14.96873**	**2.691768**	**14.64642**	**377.7879**
Stddev	.0013425	.006926	1.2129	.02770	.008599	.08217	.8220
%RSD	.2881236	.2953144	.3176842	.1850218	.3194683	.5610318	.2175693
#1	.4645607	2.340653	383.1754	14.99868	2.689534	14.61182	377.9467
#2	.4659893	2.342080	380.8662	14.94406	2.684506	14.58722	376.8981
#3	.4672438	2.353299	381.3773	14.96344	2.701264	14.74024	378.5188

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.88186**	**373.8461**	**2.465952**	**1.153015**	**381.0415**	**2.349653**	**14.83779**
Stddev	.04804	1.0512	.006875	.001606	1.3506	.011986	.07538
%RSD	.3460363	.2811808	.2787976	.1392640	.3544502	.5101099	.5080252
#1	13.85899	373.8174	2.464730	1.153393	380.6624	2.362620	14.86147
#2	13.84954	372.8096	2.459770	1.151254	379.9210	2.338980	14.75341
#3	13.93706	374.9113	2.473356	1.154398	382.5412	2.347357	14.89849

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**163.3080**	**4.717860**	**4.738762**	**4.528182**	**4.920209**	**4.679296**	**4.741588**
Stddev	.3703	.012028	.004290	.012273	.018048	.004695	.012533
%RSD	.2267460	.2549565	.0905267	.2710304	.3668131	.1003255	.2643187
#1	163.4450	4.710672	4.733870	4.522669	4.905561	4.675751	4.738744
#2	162.8887	4.711161	4.740538	4.519633	4.914695	4.684620	4.730722
#3	163.5902	4.731746	4.741879	4.542245	4.940371	4.677517	4.755299

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: CCV035 Acquired: 12/16/2024 3:04:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV035 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	**4.707272**	**4.524728**	**5.086849**
Stddev	.011811	.011662	.015809
%RSD	.2509044	.2577413	.3107805
#1	4.707387	4.522819	5.074362
#2	4.695404	4.514138	5.081562
#3	4.719025	4.537227	5.104624

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1931.169**	**25721.88**	**2541.857**	**1622.186**	**2533.349**
Stddev	9.213	118.25	10.375	8.102	12.345
%RSD	.4770772	.4597353	.4081555	.4994690	.4872991
#1	1928.105	25595.43	2533.885	1614.149	2529.739
#2	1941.523	25829.73	2553.587	1630.352	2547.097
#3	1923.878	25740.47	2538.098	1622.057	2523.212

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: CCB035 Acquired: 12/16/2024 3:08:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB035 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0026824**	**.0019203**	**.0045157**	**-.001920**	**.0003055**	**-.012279**
Stddev	.0032471	.0019097	.0028089	.003394	.0006539	.015213
%RSD	121.0521	99.44735	62.20317	176.7404	214.0563	123.9005
#1	.0053536	.0012756	.0076727	.001243	-.000079	-.010565
#2	.0036253	.0004164	.0022931	-.005505	-.000065	.002005
#3	-.000932	.0040688	.0035812	-.001498	.001061	-.028276

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010729**	**.0000917**	**.0000332**	**-.001358**	**.0000839**	**-.000380**
Stddev	.0008613	.0000519	.0000272	.045853	.0009784	.000298
%RSD	80.28030	56.57616	81.82824	3377.045	1166.617	78.47941
#1	.0020042	.0001176	.0000119	-.049294	.0008113	-.000723
#2	.0009097	.0001254	.0000639	.003140	-.001028	-.000183
#3	.0003049	.0000319	.0000239	.042081	.000469	-.000234

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0021443**	**-.007064**	**.0006035**	**.0506138**	**.0006199**	**.0003125**
Stddev	.0097081	.020985	.0017991	.0709930	.0008540	.0010487
%RSD	452.7479	297.0807	298.1268	140.2641	137.7634	335.5366
#1	.0044470	.014562	.0018585	.0615115	.0007886	.0011940
#2	-.008508	-.027343	-.001458	-.025198	.0013770	.0005909
#3	.010494	-.008409	.001410	.115528	-.000306	-.000847

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.696551**	**-.005525**	**-.008163**	**-1.00362**	**-.001684**	**.0191257**
Stddev	.598667	.008190	.007471	.18434	.001380	.0012976
%RSD	85.94723	148.2471	91.51463	18.36696	81.91864	6.784746
#1	-.733239	-.004044	-.006368	-1.10108	-.002931	.0206158
#2	-1.27603	-.014354	-.001754	-.79102	-.001920	.0185167
#3	-.08038	.001824	-.016368	-1.11877	-.000202	.0182446

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: CCB035 Acquired: 12/16/2024 3:08:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB035 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006651	-.006174	.0001258	.0011933	.0037827	.0001689
Stddev	.0007359	.002527	.0008102	.0004626	.0029619	.0000449
%RSD	110.6590	40.92286	644.0840	38.76711	78.30167	26.59000
#1	.0012476	-.003257	.0002010	.0017192	.0011544	.0001218
#2	-.000162	-.007670	.0008957	.0008490	.0069920	.0002112
#3	.000910	-.007597	-.000719	.0010118	.0032016	.0001738

Elem	Li6707
Units	ppm
Avg	F .0349936
Stddev	.0037651
%RSD	10.75941
#1	.0306981
#2	.0365608
#3	.0377220

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2329.467	28954.25	2636.485	1976.407	3223.233
Stddev	3.270	439.05	22.086	31.812	4.730
%RSD	.1403820	1.516363	.8376934	1.609598	.1467457
#1	2333.195	28798.18	2611.018	1968.294	3228.328
#2	2328.119	29450.01	2650.377	2011.490	3222.389
#3	2327.086	28614.55	2648.060	1949.436	3218.981

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-13 Acquired: 12/16/2024 3:12:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKE5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0818273**	**.0252081**	**.1622136**	**-.038707**	**.0186291**	**51.94394**	**.5184834**
Stddev	.0029810	.0043785	.0013549	.001264	.0021808	.49491	.0044005
%RSD	3.643084	17.36949	.8352436	3.265697	11.70613	.9527851	.8487300
#1	.0806485	.0274829	.1608555	-.037369	.0166355	51.76195	.5161005
#2	.0796159	.0201604	.1635653	-.038869	.0209581	51.56579	.5157883
#3	.0852175	.0279811	.1622202	-.039882	.0182938	52.50409	.5235615

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0049486**	**.0034062**	**535.9600**	**.0836858**	**.1264214**	**.2798148**	**175.4197**
Stddev	.0001170	.0000554	6.5304	.0009260	.0002774	.0099156	1.4909
%RSD	2.365128	1.627298	1.218455	1.106504	.2194642	3.543631	.8499210
#1	.0048365	.0034701	533.4697	.0846286	.1265301	.2751365	174.8617
#2	.0050700	.0033723	531.0412	.0836513	.1266280	.2731038	174.2882
#3	.0049391	.0033761	543.3692	.0827776	.1261061	.2912040	177.1091

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.840853**	**124.3370**	**.1663618**	**-.014431**	**.1733180**	**.1900550**	**.3547876**
Stddev	.052606	.8352	.0004942	.000768	.5945502	.0140964	.0075495
%RSD	.9006578	.6717521	.2970851	5.320374	343.0401	7.416982	2.127883
#1	5.818948	123.7655	.1658327	-.014623	.2016158	.2061103	.3569843
#2	5.802740	123.9499	.1664413	-.015084	.7532140	.1843463	.3463834
#3	5.900872	125.2955	.1668115	-.013585	-.434876	.1797084	.3609951

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.375466**	**7.001167**	**-.042855**	**-.001852**	**.6781727**	**5.814818**	**.0170028**
Stddev	.154758	.028536	.002678	.000264	.0019601	.037965	.0016887
%RSD	3.536946	.4075828	6.247913	14.28137	.2890263	.6528925	9.931782
#1	4.434197	6.972353	-.042767	-.001702	.6800507	5.784735	.0171570
#2	4.199939	7.001731	-.045575	-.001697	.6761397	5.802244	.0186091
#3	4.492261	7.029416	-.040222	-.002157	.6783276	5.857474	.0152423

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-13 Acquired: 12/16/2024 3:12:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKE5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.156176	.4613228	.1714103
Stddev	.005023	.0034176	.0019835
%RSD	.4344116	.7408204	1.157190
#1	1.153437	.4590355	.1701793
#2	1.153118	.4596815	.1736985
#3	1.161972	.4652514	.1703531

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2568.636	31620.16	3003.081	2159.373	2852.924
Stddev	1.448	196.51	27.656	8.255	2.925
%RSD	.0563566	.6214745	.9209119	.3823006	.1025364
#1	2566.994	31493.90	3007.437	2160.385	2849.747
#2	2569.729	31846.57	3028.301	2167.076	2853.518
#3	2569.186	31520.02	2973.506	2150.658	2855.506

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-14 Acquired: 12/16/2024 3:16:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKE6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0801224	.0108341	2.167778	-.007910	.0286265	76.57414
Stddev	.0035399	.0044112	.009309	.002639	.0020568	.10828
%RSD	4.418101	40.71551	.4294482	33.36295	7.185121	.1414017
#1	.0781901	.0135019	2.159667	-.008861	.0306431	76.46874
#2	.0842080	.0057425	2.165724	-.009942	.0287047	76.56858
#3	.0779692	.0132579	2.177943	-.004927	.0265316	76.68509

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.174543	.0068097	.0059029	69.70908	.1395473	.1059829
Stddev	.002473	.0002805	.0001549	.27696	.0007439	.0005649
%RSD	.2105297	4.118538	2.624365	.3973103	.5330790	.5329917
#1	1.172621	.0069524	.0057303	69.57546	.1396830	.1057320
#2	1.173674	.0064866	.0060298	70.02752	.1387450	.1055870
#3	1.177332	.0069901	.0059487	69.52426	.1402141	.1066298

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2595257	166.9517	7.257596	32.36061	.1986590	-.012120
Stddev	.0104102	.3141	.016295	.09788	.0011687	.000436
%RSD	4.011238	.1881235	.2245181	.3024521	.5882864	3.598848
#1	.2574571	166.5936	7.243026	32.24790	.1979524	-.012624
#2	.2503051	167.1806	7.254569	32.40971	.1980168	-.011854
#3	.2708149	167.0808	7.275191	32.42421	.2000080	-.011883

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2058901	.1823851	1.038712	9.669205	F 10.77834	-.030559
Stddev	.4244467	.0030233	.021307	.053439	.02761	.004187
%RSD	206.1521	1.657640	2.051273	.5526761	.2561463	13.70121
#1	.6407386	.1794144	1.039247	9.609962	10.75762	-.026912
#2	-.207328	.1854583	1.059746	9.683878	10.76772	-.029634
#3	.184259	.1822826	1.017142	9.713775	10.80968	-.035132

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-14 Acquired: 12/16/2024 3:16:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKE6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042383	3.717835	8.772130	.0793635	.9559300	-.003387
Stddev	.0002954	.006806	.050203	.0020594	.0055869	.000452
%RSD	6.969709	.1830595	.5722962	2.594861	.5844477	13.33754
#1	.0039654	3.713704	8.745681	.0772774	.9499462	-.003413
#2	.0041975	3.714110	8.740682	.0794179	.9610099	-.003825
#3	.0045520	3.725690	8.830027	.0813951	.9568338	-.002923

Elem	Li6707
Units	ppm
Avg	.1728319
Stddev	.0069625
%RSD	4.028456
#1	.1773500
#2	.1648139
#3	.1763319

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2712.521	33573.91	3119.629	2298.649	3190.811
Stddev	15.372	104.04	19.524	10.918	17.559
%RSD	.5667180	.3098716	.6258313	.4749658	.5502847
#1	2724.390	33687.09	3132.797	2309.577	3205.247
#2	2718.017	33482.45	3128.892	2287.742	3195.923
#3	2695.156	33552.19	3097.198	2298.629	3171.265

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-15 Acquired: 12/16/2024 3:20:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKE7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1180393	.0134869	.7857217	-.001292	.0353013	82.66583	1.620456
Stddev	.0024011	.0030323	.0099837	.003335	.0019617	.69373	.016056
%RSD	2.034186	22.48345	1.270641	258.0613	5.556880	.8392039	.9908318
#1	.1162610	.0168102	.7850279	-.001455	.0341721	82.67639	1.626001
#2	.1170864	.0127802	.7761029	.002121	.0341653	81.96688	1.602362
#3	.1207707	.0108704	.7960342	-.004543	.0375664	83.35423	1.633004

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0076786	.0072346	68.48598	.1433946	.1166414	.2239227	195.9138
Stddev	.0002723	.0000623	.66364	.0007786	.0013383	.0038568	1.7412
%RSD	3.545709	.8614620	.9690132	.5429901	1.147334	1.722395	.8887770
#1	.0075892	.0072655	68.50163	.1432501	.1168373	.2261862	195.9305
#2	.0074623	.0071629	67.81466	.1442353	.1152159	.2194695	194.1643
#3	.0079843	.0072754	69.14166	.1426983	.1178709	.2261126	197.6467

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.311105	32.23954	.2067575	-.015236	.3773864	.2127791	.8954564
Stddev	.081306	.17465	.0014264	.000467	.6436296	.0036906	.0048783
%RSD	.8732166	.5417179	.6898877	3.063579	170.5492	1.734481	.5447882
#1	9.317838	32.31849	.2073388	-.014812	-.120034	.2168420	.8974437
#2	9.226642	32.03935	.2051323	-.015159	1.104311	.2096339	.8898980
#3	9.388835	32.36076	.2078015	-.015736	.147882	.2118615	.8990273

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.774567	9.396508	-.047355	.0033822	2.511867	8.592472	.2882656
Stddev	.114832	.051901	.003196	.0005075	.018108	.106373	.0021091
%RSD	1.308690	.5523473	6.749718	15.00435	.7208858	1.237984	.7316449
#1	8.751993	9.395273	-.043894	.0028575	2.517345	8.495457	.2862973
#2	8.672698	9.345235	-.047974	.0034184	2.491652	8.575739	.2880076
#3	8.899009	9.449016	-.050196	.0038705	2.526602	8.706221	.2904917

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-15 Acquired: 12/16/2024 3:20:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKE7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.9226519	-.029660	.1765718
Stddev	.0147496	.000318	.0080362
%RSD	1.598614	1.073528	4.551251
#1	.9247704	-.029412	.1823606
#2	.9069575	-.029549	.1799582
#3	.9362277	-.030019	.1673966

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2696.838	32980.04	3086.242	2256.699	3135.610
Stddev	7.410	186.72	21.910	17.119	13.947
%RSD	.2747815	.5661515	.7099349	.7585837	.4447999
#1	2692.702	32817.93	3103.999	2243.379	3126.392
#2	2705.393	32937.99	3092.970	2250.709	3151.656
#3	2692.417	33184.20	3061.756	2276.007	3128.782

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-16 Acquired: 12/16/2024 3:24:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKE8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0906435	.0228638	.4467666	-.009299	.0341973	92.22680	1.826887
Stddev	.0025735	.0030978	.0016546	.005003	.0023786	.13295	.002361
%RSD	2.839134	13.54913	.3703384	53.79941	6.955392	.1441501	.1292531
#1	.0919608	.0219471	.4484793	-.004183	.0343753	92.07572	1.824312
#2	.0922916	.0203277	.4466436	-.014180	.0364818	92.27874	1.827399
#3	.0876780	.0263165	.4451770	-.009535	.0317347	92.32593	1.828950

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0078207	.0067025	118.5012	.1402398	.1359726	.1091376	215.6744
Stddev	.0000752	.0002179	.3307	.0000627	.0007983	.0103597	.5859
%RSD	.9617285	3.250236	.2790934	.0446836	.5871414	9.492346	.2716496
#1	.0078941	.0065981	118.2987	.1401676	.1356902	.0982909	215.1160
#2	.0078241	.0065564	118.3221	.1402792	.1353538	.1101922	215.6230
#3	.0077438	.0069529	118.8829	.1402727	.1368738	.1189296	216.2843

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.77703	36.39068	.1919606	-.016472	.0971825	.2287384	.5366405
Stddev	.01237	.26743	.0009246	.000660	.4765520	.0064974	.0049237
%RSD	.1050714	.7348962	.4816833	4.006902	490.3683	2.840553	.9175062
#1	11.76305	36.09334	.1914363	-.015922	.6473943	.2219534	.5323783
#2	11.78659	36.46714	.1914173	-.016289	-.185133	.2349038	.5355130
#3	11.78144	36.61156	.1930282	-.017204	-.170714	.2293581	.5420302

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.408426	8.229977	-.055634	.0012760	2.326155	8.433932	.0431183
Stddev	.072130	.039723	.003167	.0005712	.015083	.045823	.0011277
%RSD	.9736267	.4826563	5.691664	44.76265	.6484124	.5433197	2.615429
#1	7.367405	8.227105	-.052045	.0013239	2.325287	8.409313	.0420606
#2	7.491712	8.191769	-.056824	.0006824	2.311525	8.405680	.0443049
#3	7.366161	8.271058	-.058033	.0018218	2.341654	8.486802	.0429895

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-16 Acquired: 12/16/2024 3:24:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKE8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8815846	-.012713	.1942727
Stddev	.0043877	.000395	.0021232
%RSD	.4977037	3.103977	1.092900
#1	.8783817	-.013075	.1967121
#2	.8797864	-.012293	.1932653
#3	.8865858	-.012773	.1928408

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2740.180	33506.39	3143.942	2296.314	3107.065
Stddev	8.073	128.70	5.021	16.789	9.331
%RSD	.2946264	.3841064	.1597065	.7311390	.3003284
#1	2748.862	33476.90	3143.626	2298.635	3111.394
#2	2738.781	33395.00	3139.086	2278.485	3113.445
#3	2732.898	33647.28	3149.114	2311.822	3096.355

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-17 Acquired: 12/16/2024 3:28:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKE9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0401698	.0277826	.1340391	-.043313	.0143853	58.01418	.6003615
Stddev	.0027969	.0029821	.0017430	.005250	.0029956	.53669	.0053946
%RSD	6.962690	10.73365	1.300354	12.12069	20.82403	.9250957	.8985642
#1	.0389764	.0277381	.1358025	-.041902	.0178216	58.59594	.6064419
#2	.0381676	.0248230	.1323173	-.038912	.0130095	57.53837	.5961492
#3	.0433654	.0307867	.1339977	-.049124	.0123248	57.90823	.5984934

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046967	.0030481	508.6792	.0899920	.1167591	.0787519	147.0885
Stddev	.0000976	.0001597	4.7489	.0006754	.0001054	.0019563	1.5134
%RSD	2.078232	5.238037	.9335764	.7504787	.0902682	2.484182	1.028902
#1	.0046958	.0028752	513.8399	.0894061	.1166665	.0778062	148.7334
#2	.0047947	.0030788	504.4933	.0898392	.1168738	.0774481	145.7551
#3	.0045995	.0031901	507.7046	.0907307	.1167370	.0810014	146.7769

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.901784	86.11130	.1598345	-.012668	-.659522	.1392864	.2309328
Stddev	.037452	.79425	.0008293	.001014	.826427	.0041034	.0026166
%RSD	.5426425	.9223518	.5188374	8.006612	125.3070	2.946029	1.133079
#1	6.944811	86.99081	.1589212	-.012279	.113907	.1374927	.2329389
#2	6.876512	85.44642	.1600419	-.013820	-.562153	.1363852	.2279731
#3	6.884028	85.89666	.1605403	-.011906	-1.53032	.1439812	.2318864

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.033958	6.902340	-.024154	-.002484	.9807142	6.356189	.0181663
Stddev	.251093	.017796	.000407	.000745	.0072915	.009202	.0004839
%RSD	3.569732	.2578209	1.684498	30.01056	.7434854	.1447739	2.663491
#1	7.322781	6.890496	-.024092	-.001631	.9794177	6.346915	.0181287
#2	6.911546	6.893720	-.024588	-.002806	.9741579	6.356334	.0177024
#3	6.867547	6.922805	-.023781	-.003014	.9885669	6.365318	.0186679

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-17 Acquired: 12/16/2024 3:28:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKE9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.9756635	.4812043	.1626660
Stddev	.0007522	.0032409	.0035974
%RSD	.0770940	.6735062	2.211540
#1	.9762036	.4848973	.1666048
#2	.9748044	.4788334	.1618395
#3	.9759825	.4798821	.1595538

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2527.486	31271.74	2978.723	2136.771	2858.122
Stddev	4.726	94.74	17.479	12.759	3.547
%RSD	.1869984	.3029622	.5868009	.5971290	.1240992
#1	2524.681	31163.37	2958.545	2123.082	2854.859
#2	2532.943	31338.90	2989.217	2148.332	2861.898
#3	2524.834	31312.94	2988.407	2138.900	2857.611

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-18 Acquired: 12/16/2024 3:32:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0323830	.0271533	.1026907	-.042698	.0113217	52.40803	.4889518
Stddev	.0044178	.0012418	.0040975	.005425	.0027018	.39679	.0033459
%RSD	13.64239	4.573223	3.990131	12.70614	23.86419	.7571101	.6842930
#1	.0340575	.0263966	.1005633	-.048428	.0144394	52.86618	.4926985
#2	.0273727	.0285864	.1000944	-.037641	.0098604	52.17566	.4878946
#3	.0357188	.0264769	.1074143	-.042023	.0096652	52.18224	.4862621

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041662	.0023629	446.7786	.0829917	.1145987	.0810929	127.8873
Stddev	.0000070	.0000673	4.2421	.0010097	.0002286	.0047799	1.2051
%RSD	.1676626	2.847099	.9494819	1.216638	.1994565	5.894302	.9423141
#1	.0041636	.0022896	451.6338	.0841575	.1143660	.0859897	129.1724
#2	.0041742	.0023771	444.9127	.0823976	.1146071	.0764392	126.7825
#3	.0041610	.0024219	443.7893	.0824200	.1148229	.0808498	127.7069

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.285360	85.39471	.1478718	-.010438	-.688846	.1284619	.2006553
Stddev	.059629	1.16662	.0010420	.000263	.041033	.0055192	.0093544
%RSD	.9486942	1.366147	.7046327	2.516867	5.956771	4.296344	4.661928
#1	6.352005	86.64717	.1467614	-.010238	-.659242	.1348270	.1966246
#2	6.237058	84.33894	.1480257	-.010736	-.735686	.1255546	.2113493
#3	6.267016	85.19802	.1488282	-.010341	-.671611	.1250042	.1939919

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.268435	6.454422	-.011483	-.002672	.5648682	6.210696	.0160064
Stddev	.141157	.030592	.003495	.000257	.0065356	.047072	.0015571
%RSD	1.942058	.4739748	30.43951	9.635002	1.157016	.7579186	9.727987
#1	7.293633	6.420532	-.009851	-.002881	.5656305	6.260473	.0153528
#2	7.116376	6.462739	-.015496	-.002752	.5579849	6.166901	.0148826
#3	7.395296	6.479997	-.009103	-.002384	.5709893	6.204713	.0177838

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-18 Acquired: 12/16/2024 3:32:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.9629209	.4965460	.1496687
Stddev	.0114592	.0047210	.0032858
%RSD	1.190043	.9507702	2.195389
#1	.9759163	.5019309	.1534444
#2	.9542663	.4931190	.1481039
#3	.9585801	.4945879	.1474578

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2520.201	30999.11	2973.597	2110.312	2885.262
Stddev	1.735	50.59	20.294	2.466	5.382
%RSD	.0688369	.1632038	.6824758	.1168684	.1865483
#1	2521.842	30976.72	2958.307	2109.617	2890.808
#2	2520.375	30963.57	2996.621	2113.051	2884.918
#3	2518.385	31057.03	2965.863	2108.267	2880.060

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-19 Acquired: 12/16/2024 3:36:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0333256	.0288740	.1068121	-.042593	.0167052	54.90930	.6629502
Stddev	.0034975	.0011401	.0028391	.003629	.0035809	.12372	.0000215
%RSD	10.49478	3.948694	2.658060	8.519624	21.43603	.2253178	.0032511
#1	.0346962	.0293808	.1082051	-.046542	.0175484	54.84116	.6629302
#2	.0359301	.0296729	.1035455	-.039406	.0197893	54.83463	.6629730
#3	.0293504	.0275683	.1086857	-.041830	.0127779	55.05211	.6629473

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040986	.0028135	452.3218	.0864326	.1164188	.1147641	140.2180
Stddev	.0000629	.0001047	.9506	.0005104	.0008000	.0080948	.1448
%RSD	1.535964	3.722507	.2101545	.5905261	.6871516	7.053438	.1032680
#1	.0040914	.0027078	451.5799	.0862612	.1172113	.1071776	140.3666
#2	.0041648	.0028153	451.9921	.0860300	.1164336	.1232859	140.0773
#3	.0040395	.0029173	453.3933	.0870067	.1156115	.1138288	140.2100

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.241922	71.66292	.1726710	-.012485	-.915675	.1287715	.2142793
Stddev	.023679	.17731	.0003491	.000748	.810275	.0043124	.0004720
%RSD	.2872960	.2474195	.2021504	5.994234	88.48940	3.348886	.2202856
#1	8.237031	71.62878	.1727203	-.011739	-.967065	.1273633	.2146526
#2	8.221070	71.50517	.1723000	-.012481	-1.69903	.1336119	.2144365
#3	8.267664	71.85482	.1729929	-.013236	-.08093	.1253391	.2137487

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.855516	5.931563	-.027281	-.002163	.6245195	6.205495	.0143751
Stddev	.052572	.016168	.000274	.000251	.0030245	.060333	.0014498
%RSD	.7668544	.2725796	1.005917	11.61703	.4842909	.9722487	10.08562
#1	6.905224	5.919330	-.027052	-.002379	.6270422	6.145994	.0159235
#2	6.800485	5.925466	-.027585	-.001887	.6211666	6.266626	.0141522
#3	6.860839	5.949894	-.027205	-.002221	.6253497	6.203866	.0130497

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-19 Acquired: 12/16/2024 3:36:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.9713329	.4564660	.1548927
Stddev	.0031457	.0008432	.0061531
%RSD	.3238528	.1847144	3.972487
#1	.9711427	.4571192	.1542646
#2	.9682866	.4555142	.1613357
#3	.9745694	.4567645	.1490777

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2543.489	31226.85	2991.884	2135.076	2921.185
Stddev	3.527	75.23	23.446	8.159	4.433
%RSD	.1386710	.2409040	.7836622	.3821357	.1517619
#1	2546.196	31159.86	3010.839	2130.227	2925.188
#2	2544.770	31212.47	2965.665	2130.506	2916.420
#3	2539.500	31308.23	2999.148	2144.496	2921.946

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-20 Acquired: 12/16/2024 3:40:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0269332	.0257335	.1049494	-.046095	.0055116	46.59623	.4070136
Stddev	.0083812	.0014580	.0035421	.001412	.0047116	.04710	.0006549
%RSD	31.11860	5.665821	3.375013	3.064044	85.48414	.1010718	.1609011
#1	.0305508	.0248683	.1014690	-.045599	.0029105	46.54380	.4077683
#2	.0173507	.0249153	.1048290	-.044997	.0026740	46.60994	.4066774
#3	.0328980	.0274168	.1085501	-.047688	.0109503	46.63495	.4065951

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0037719	.0020283	431.8354	.0804505	.1026775	.1313202	111.5904
Stddev	.0000816	.0000770	.2330	.0009268	.0007654	.0064525	.3247
%RSD	2.164349	3.795235	.0539632	1.152067	.7454919	4.913593	.2910141
#1	.0036807	.0021086	431.9304	.0811194	.1029863	.1372512	111.3493
#2	.0038381	.0020211	431.5698	.0793926	.1018059	.1322601	111.9597
#3	.0037970	.0019551	432.0058	.0808397	.1032404	.1244492	111.4623

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.207109	82.75692	.1380045	-.010015	-1.12983	.1161791	.2378323
Stddev	.019284	.36050	.0008712	.000237	.84705	.0070894	.0078403
%RSD	.4583745	.4356133	.6312996	2.366893	74.97084	6.102164	3.296578
#1	4.187394	82.38415	.1379501	-.010273	-.64958	.1090490	.2363122
#2	4.225932	83.10375	.1371617	-.009807	-.63206	.1232272	.2308634
#3	4.208002	82.78285	.1389016	-.009965	-2.10786	.1162609	.2463214

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.373712	5.262961	-.016362	-.002565	.6748325	5.717701	.0138735
Stddev	.139631	.022399	.000841	.000306	.0091025	.023356	.0026547
%RSD	2.598402	.4255975	5.142026	11.91772	1.348852	.4084870	19.13532
#1	5.293926	5.267979	-.016149	-.002299	.6678276	5.691330	.0113123
#2	5.292269	5.238478	-.015647	-.002498	.6715487	5.735778	.0166128
#3	5.534940	5.282425	-.017289	-.002899	.6851213	5.725996	.0136954

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-20 Acquired: 12/16/2024 3:40:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8865804	.4598073	.1407423
Stddev	.0020701	.0012195	.0044601
%RSD	.2334959	.2652269	3.168979
#1	.8862370	.4588552	.1419794
#2	.8888008	.4611819	.1357943
#3	.8847034	.4593847	.1444533

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2487.411	30744.02	2937.674	2100.468	2910.023
Stddev	7.942	95.52	11.226	11.817	13.128
%RSD	.3192725	.3107084	.3821412	.5626056	.4511141
#1	2493.552	30692.84	2943.851	2099.631	2911.616
#2	2490.238	30685.00	2924.716	2089.092	2922.281
#3	2478.443	30854.23	2944.455	2112.682	2896.172

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-21 Acquired: 12/16/2024 3:43:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKG2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0248337	.0275624	.0988636	-.042704	.0109546	50.47525	.4467877
Stddev	.0005672	.0055606	.0012365	.005272	.0013971	.42752	.0044362
%RSD	2.283984	20.17463	1.250732	12.34509	12.75368	.8469800	.9929138
#1	.0253309	.0334882	.0984020	-.039226	.0125342	50.69139	.4493760
#2	.0249543	.0224584	.1002645	-.040115	.0104484	50.75153	.4493218
#3	.0242159	.0267405	.0979243	-.048769	.0098811	49.98282	.4416653

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040077	.0024726	459.1268	.0824420	.1077976	.0895759	128.2961
Stddev	.0001861	.0001637	3.3559	.0003198	.0005341	.0059282	1.2827
%RSD	4.643480	6.620293	.7309307	.3879624	.4955042	6.618042	.9997642
#1	.0038522	.0022863	461.0438	.0822996	.1074744	.0929938	128.9914
#2	.0039570	.0025384	461.0848	.0822180	.1075043	.0827307	129.0810
#3	.0042139	.0025933	455.2518	.0828083	.1084142	.0930034	126.8159

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.213022	85.94618	.1460671	-.011085	-.874002	.1317901	.1950241
Stddev	.059297	.89469	.0009139	.000331	.136181	.0052645	.0027607
%RSD	.9543970	1.040985	.6256593	2.987306	15.58126	3.994635	1.415567
#1	6.247194	86.46977	.1451071	-.010977	-1.02001	.1375623	.1981798
#2	6.247319	86.45566	.1461676	-.010821	-.75044	.1272527	.1930558
#3	6.144551	84.91312	.1469265	-.011456	-.85156	.1305554	.1938368

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.984936	6.365888	-.019024	-.002885	.6026914	6.479707	.0164379
Stddev	.167691	.017327	.003243	.000597	.0039126	.071103	.0025133
%RSD	2.400752	.2721785	17.04877	20.68113	.6491900	1.097323	15.28976
#1	7.032744	6.351973	-.021941	-.003445	.5985976	6.561637	.0191383
#2	7.123533	6.360395	-.019599	-.002258	.6063933	6.443348	.0141670
#3	6.798533	6.385295	-.015531	-.002952	.6030832	6.434135	.0160084

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-21 Acquired: 12/16/2024 3:43:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKG2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.081844	.4807434	.1469831
Stddev	.008362	.0048952	.0063438
%RSD	.7729236	1.018255	4.316044
#1	1.087525	.4848209	.1514126
#2	1.085765	.4820949	.1498209
#3	1.072242	.4753145	.1397157

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2501.650	30940.86	2980.939	2105.637	2854.034
Stddev	7.343	21.91	11.989	4.768	8.251
%RSD	.2935442	.0708124	.4022053	.2264298	.2890931
#1	2506.277	30956.05	2967.353	2107.848	2860.500
#2	2505.490	30950.79	2985.429	2100.165	2856.861
#3	2493.182	30915.74	2990.036	2108.897	2844.742

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-22 Acquired: 12/16/2024 3:47:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKG3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0309436	.0163940	.1246981	-.032417	.0129738	53.88900	.4775881
Stddev	.0069723	.0020978	.0035330	.003258	.0027466	.31785	.0027970
%RSD	22.53237	12.79591	2.833210	10.05121	21.17062	.5898284	.5856499
#1	.0289863	.0148351	.1271660	-.030010	.0149950	54.15410	.4799137
#2	.0251591	.0155679	.1262774	-.031116	.0098466	53.97627	.4783661
#3	.0386854	.0187791	.1206510	-.036124	.0140798	53.53663	.4744845

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046227	.0020902	221.0285	.0877163	.1020479	.1233088	135.3665
Stddev	.0001401	.0001022	1.2384	.0006930	.0009720	.0085858	.8955
%RSD	3.031199	4.890174	.5602882	.7901067	.9524681	6.962834	.6615719
#1	.0044743	.0020152	222.1526	.0883070	.1010637	.1332115	136.0628
#2	.0047527	.0022066	221.2320	.0878884	.1020727	.1179480	135.6805
#3	.0046413	.0020487	219.7010	.0869534	.1030072	.1187668	134.3563

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.368266	68.92070	.1492884	-.011912	-.152104	.1363397	.2445050
Stddev	.018066	.51631	.0010649	.000583	.109977	.0030293	.0058486
%RSD	.5363531	.7491392	.7132814	4.895331	72.30423	2.221893	2.392027
#1	3.377700	69.27933	.1484547	-.011421	-.030415	.1328854	.2437694
#2	3.379663	69.15383	.1489227	-.012557	-.244394	.1385438	.2390589
#3	3.347437	68.32893	.1504880	-.011758	-.181502	.1375900	.2506866

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.961850	5.877181	-.033798	-.001723	.7024415	6.249825	.0160553
Stddev	.132101	.025082	.003645	.000465	.0028471	.044002	.0009439
%RSD	3.334314	.4267661	10.78407	26.96332	.4053125	.7040479	5.878864
#1	3.830471	5.865780	-.030238	-.001656	.7013678	6.238605	.0164974
#2	3.960421	5.859824	-.037522	-.001295	.7056693	6.298351	.0149716
#3	4.094660	5.905938	-.033635	-.002217	.7002874	6.212520	.0166971

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5028-22 Acquired: 12/16/2024 3:47:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKG3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.9559920	.1309453	.1415959
Stddev	.0066240	.0009473	.0024213
%RSD	.6928908	.7234129	1.710000
#1	.9552827	.1318906	.1436914
#2	.9629421	.1309495	.1421510
#3	.9497512	.1299960	.1389452

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2566.600	31530.98	2966.394	2151.617	3009.159
Stddev	1.828	201.91	13.324	12.347	2.311
%RSD	.0712387	.6403538	.4491570	.5738397	.0767827
#1	2568.441	31311.49	2971.281	2138.591	3007.404
#2	2564.784	31708.81	2951.316	2163.149	3011.777
#3	2566.576	31572.65	2976.583	2153.111	3008.297

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5037-01 Acquired: 12/16/2024 3:51:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK52 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1188367**	**.0229468**	**1.427445**	**.0082117**	**.0264666**	**63.80558**	**.8286816**
Stddev	.0017024	.0030915	.021611	.0048065	.0024863	.19156	.0011841
%RSD	1.432530	13.47230	1.513953	58.53211	9.393956	.3002234	.1428904
#1	.1171768	.0245995	1.452398	.0114560	.0292426	63.78588	.8290813
#2	.1205786	.0248607	1.415169	.0104893	.0257127	63.62463	.8273494
#3	.1187547	.0193803	1.414769	.0026898	.0244446	64.00623	.8296141

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0059259**	**.0064504**	**41.54421**	**.0931478**	**.1354095**	**.2459212**	**155.0815**
Stddev	.0000245	.0001716	.10482	.0007821	.0025998	.0046637	.4553
%RSD	.4127217	2.660304	.2523065	.8396250	1.919964	1.896427	.2936117
#1	.0059261	.0066465	41.56619	.0937381	.1384109	.2462125	154.9284
#2	.0059014	.0063278	41.43015	.0934445	.1338568	.2411187	154.7224
#3	.0059503	.0063770	41.63630	.0922608	.1339608	.2504325	155.5936

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.07266**	**20.86666**	**.1371660**	**-.008358**	**6.263444**	**.1454404**	**.5724261**
Stddev	.04759	.06091	.0028565	.000512	.665597	.0078412	.0125289
%RSD	.2787461	.2919194	2.082504	6.128142	10.62669	5.391380	2.188743
#1	17.02820	20.81488	.1404232	-.007832	5.908867	.1399996	.5860287
#2	17.06692	20.93378	.1350878	-.008855	7.031262	.1544285	.5698911
#3	17.12286	20.85133	.1359869	-.008387	5.850202	.1418933	.5613585

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.030897**	**4.277709**	**-.054026**	**.0068735**	**3.192043**	**6.594645**	**.0455610**
Stddev	.093944	.068383	.002547	.0004205	.055773	.031489	.0012205
%RSD	2.330607	1.598588	4.713949	6.116909	1.747248	.4774928	2.678771
#1	4.057051	4.356465	-.051848	.0073216	3.253252	6.581862	.0456563
#2	4.108992	4.233402	-.053403	.0064877	3.144099	6.571559	.0442956
#3	3.926646	4.243260	-.056826	.0068113	3.178777	6.630516	.0467309

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5037-01 Acquired: 12/16/2024 3:51:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK52 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.397435	.1366960	.0775338
Stddev	.005674	.0006138	.0061285
%RSD	.4060309	.4490360	7.904313
#1	1.398973	.1370996	.0824502
#2	1.391150	.1359896	.0794837
#3	1.402181	.1369988	.0706676

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2597.526	32291.63	2989.493	2198.666	3086.616
Stddev	32.270	152.58	9.248	11.719	53.155
%RSD	1.242321	.4725031	.3093389	.5330168	1.722105
#1	2560.472	32154.03	2978.841	2185.838	3025.568
#2	2612.655	32265.14	2994.182	2201.346	3111.634
#3	2619.452	32455.72	2995.458	2208.812	3122.645

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5037-02 Acquired: 12/16/2024 3:55:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK53 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1339546**	**.0125370**	**.8019176**	**.0154747**	**.0373310**	**75.82872**	**.6829139**
Stddev	.0052958	.0030962	.0058262	.0007621	.0028479	.22481	.0007883
%RSD	3.953427	24.69679	.7265295	4.924701	7.628778	.2964718	.1154329
#1	.1368652	.0093584	.7980652	.0146041	.0362330	75.59225	.6820057
#2	.1371568	.0155437	.8086201	.0157991	.0405645	75.85422	.6834212
#3	.1278419	.0127089	.7990674	.0160209	.0351955	76.03970	.6833147

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0065620**	**.0053673**	**25.87885**	**.1029440**	**.1424757**	**.2327705**	**199.1999**
Stddev	.0001270	.0001041	.11585	.0007692	.0007821	.0060031	.6836
%RSD	1.934616	1.940132	.4476518	.7471604	.5489365	2.578996	.3431673
#1	.0066940	.0054449	25.74528	.1021047	.1416473	.2349854	198.4313
#2	.0065513	.0054080	25.93938	.1036153	.1432014	.2259746	199.4284
#3	.0064408	.0052489	25.95190	.1031119	.1425784	.2373515	199.7399

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**16.27215**	**18.97654**	**.1544237**	**-.012843**	**6.908788**	**.1629317**	**.5519174**
Stddev	.04561	.04634	.0026655	.000527	.693061	.0029908	.0086005
%RSD	.2802759	.2441981	1.726106	4.105259	10.03159	1.835610	1.558290
#1	16.21957	18.94733	.1536154	-.012991	7.619817	.1653569	.5450275
#2	16.30097	19.02997	.1573998	-.013280	6.235213	.1638484	.5491684
#3	16.29591	18.95231	.1522558	-.012257	6.871334	.1595899	.5615563

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.349517**	**2.960638**	**-.074234**	**.0050409**	**2.716830**	**7.507454**	**.0363798**
Stddev	.126456	.016414	.002841	.0002877	.018755	.024323	.0007072
%RSD	2.907355	.5544191	3.826582	5.706991	.6903373	.3239828	1.943969
#1	4.208199	2.952243	-.072036	.0048828	2.700959	7.507032	.0368382
#2	4.452005	2.979552	-.073224	.0048669	2.737526	7.531985	.0355654
#3	4.388345	2.950119	-.077442	.0053729	2.712004	7.483344	.0367360

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5037-02 Acquired: 12/16/2024 3:55:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK53 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.102371	-.066817	.0956922
Stddev	.002538	.000214	.0067492
%RSD	.2302087	.3198492	7.053080
#1	1.100579	-.066619	.0933394
#2	1.105275	-.066789	.0904342
#3	1.101258	-.067043	.1033029

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2668.967	33123.13	3048.314	2258.915	3091.974
Stddev	23.757	130.37	5.115	6.063	29.664
%RSD	.8901222	.3935812	.1678039	.2684118	.9593998
#1	2691.143	33273.57	3053.969	2265.771	3116.459
#2	2643.895	33043.21	3046.965	2254.259	3058.987
#3	2671.862	33052.62	3044.009	2256.716	3100.477

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5037-03 Acquired: 12/16/2024 3:59:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK54 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1887654**	**.0272317**	**1.203083**	**.0172627**	**.0433278**	**63.03595**	**.7266093**
Stddev	.0027803	.0003850	.010560	.0040409	.0006575	.04142	.0027772
%RSD	1.472873	1.413642	.8777586	23.40842	1.517491	.0657059	.3822157
#1	.1893918	.0275213	1.196508	.0160886	.0438748	62.99045	.7234138
#2	.1857254	.0273791	1.215264	.0139388	.0425984	63.07146	.7284406
#3	.1911790	.0267949	1.197477	.0217606	.0435103	63.04593	.7279735

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0079849**	**.0104472**	**30.41243**	**.0974341**	**.1776679**	**.2946728**	**238.8338**
Stddev	.0001045	.0000932	.05573	.0003681	.0014968	.0013809	.4073
%RSD	1.308300	.8918549	.1832524	.3777697	.8424730	.4686045	.1705405
#1	.0078654	.0104916	30.35531	.0976657	.1763013	.2930785	238.7257
#2	.0080307	.0105099	30.46666	.0976270	.1792676	.2954858	239.2842
#3	.0080586	.0103401	30.41531	.0970097	.1774349	.2954542	238.4914

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**20.18543**	**18.55146**	**.2050865**	**-.017680**	**6.781146**	**.1425593**	**1.963379**
Stddev	.02646	.06715	.0031267	.000395	.199851	.0045431	.015125
%RSD	.1311076	.3619552	1.524577	2.231705	2.947161	3.186793	.7703701
#1	20.15487	18.62898	.2031639	-.018026	6.909458	.1373707	1.959823
#2	20.20079	18.51419	.2086943	-.017765	6.550880	.1458233	1.979965
#3	20.20062	18.51121	.2034014	-.017250	6.883099	.1444839	1.950348

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.409813**	**5.049037**	**-.084291**	**.0030410**	**3.426111**	**5.443353**	**.0346634**
Stddev	.114976	.038537	.001841	.0003980	.027813	.014031	.0002156
%RSD	2.607272	.7632568	2.184549	13.08621	.8118075	.2577702	.6219083
#1	4.408306	5.018381	-.082821	.0029368	3.403576	5.428443	.0346196
#2	4.295597	5.092298	-.083695	.0034807	3.457196	5.456298	.0348975
#3	4.525534	5.036433	-.086356	.0027056	3.417562	5.445319	.0344731

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5037-03 Acquired: 12/16/2024 3:59:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK54 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7017952	-.125918	.0862491
Stddev	.0064145	.000607	.0012778
%RSD	.9140121	.4817575	1.481524
#1	.7064416	-.126092	.0848468
#2	.7044675	-.126419	.0873476
#3	.6944767	-.125244	.0865530

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3198.305	39556.20	3651.157	2691.528	3051.673
Stddev	3.404	155.96	2.432	4.211	9.067
%RSD	.1064439	.3942721	.0666164	.1564542	.2971226
#1	3196.972	39383.69	3648.411	2686.983	3059.845
#2	3195.770	39687.21	3652.019	2695.297	3041.918
#3	3202.175	39597.69	3653.041	2692.305	3053.255

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5037-04 Acquired: 12/16/2024 4:03:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0645795	.0179147	2.027331	-.026374	.0191608	63.09917	1.132790
Stddev	.0019426	.0024815	.011847	.005871	.0024540	.05503	.000958
%RSD	3.008027	13.85159	.5843656	22.26160	12.80727	.0872190	.0846111
#1	.0623371	.0153884	2.027564	-.019625	.0192374	63.13438	1.133881
#2	.0657497	.0203487	2.015370	-.029187	.0215756	63.03576	1.132407
#3	.0656516	.0180070	2.039061	-.030308	.0166694	63.12739	1.132082

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055735	.0081115	161.6016	.1175420	.1051291	.1939544	139.9159
Stddev	.0001156	.0000190	.4060	.0005999	.0004875	.0061717	.1560
%RSD	2.074234	.2346366	.2512046	.5103383	.4637152	3.182028	.1115052
#1	.0055823	.0081032	161.4902	.1173603	.1055815	.1897079	139.7887
#2	.0056844	.0081333	161.2629	.1170540	.1046128	.2010340	140.0900
#3	.0054537	.0080980	162.0516	.1182117	.1051929	.1911214	139.8690

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.393989	68.55970	.1487804	-.011018	-.490326	.1467322	1.063442
Stddev	.004076	.04672	.0007489	.000790	.090684	.0017901	.002936
%RSD	.0755667	.0681380	.5033488	7.168646	18.49473	1.219981	.2760712
#1	5.391089	68.58732	.1492705	-.011363	-.595038	.1484930	1.060262
#2	5.398649	68.58602	.1479184	-.010114	-.438423	.1467896	1.064013
#3	5.392228	68.50576	.1491524	-.011577	-.437517	.1449141	1.066050

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.772644	6.053667	-.032559	-.000160	3.915788	7.528957	.0503915
Stddev	.103508	.022567	.001380	.000282	.016310	.025134	.0021670
%RSD	1.793069	.3727789	4.239987	176.7582	.4165099	.3338339	4.300377
#1	5.655181	6.059492	-.033439	.000071	3.909761	7.530861	.0522947
#2	5.812253	6.028759	-.030968	-.000474	3.903351	7.502926	.0508468
#3	5.850498	6.072751	-.033270	-.000076	3.934254	7.553086	.0480330

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5037-04 Acquired: 12/16/2024 4:03:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.9481676	.1064417	.1127304
Stddev	.0043537	.0002196	.0022868
%RSD	.4591735	.2062623	2.028594
#1	.9519666	.1062036	.1104859
#2	.9491195	.1066361	.1126479
#3	.9434166	.1064855	.1150574

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2489.308	30804.27	2893.585	2093.188	2993.226
Stddev	2.117	133.49	23.736	13.923	6.151
%RSD	.0850302	.4333418	.8203009	.6651792	.2054832
#1	2489.946	30759.56	2899.378	2091.422	2995.227
#2	2491.032	30954.38	2913.889	2107.910	2998.127
#3	2486.946	30698.88	2867.489	2080.232	2986.324

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5037-05 Acquired: 12/16/2024 4:07:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0886287**	**.0164317**	**3.771074**	**-.017906**	**.0223550**	**65.28868**	**1.799767**
Stddev	.0021776	.0021349	.015940	.006213	.0017677	.22297	.005823
%RSD	2.456992	12.99261	.4227027	34.69980	7.907308	.3415108	.3235242
#1	.0910557	.0159899	3.770934	-.017365	.0243961	65.51438	1.798750
#2	.0879846	.0187530	3.755203	-.011981	.0213351	65.06855	1.794521
#3	.0868458	.0145523	3.787083	-.024372	.0213337	65.28311	1.806032

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0061357**	**.0166091**	**133.1576**	**.1339390**	**.1242532**	**.2843370**	**151.8027**
Stddev	.0001513	.0000685	.3802	.0003611	.0003043	.0005037	.5042
%RSD	2.466006	.4126657	.2855525	.2696138	.2448866	.1771454	.3321188
#1	.0061961	.0166549	133.3860	.1343117	.1241877	.2839910	152.0514
#2	.0059636	.0166421	132.7186	.1339148	.1239871	.2849149	151.2225
#3	.0062475	.0165303	133.3681	.1335907	.1245850	.2841052	152.1341

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.435430**	**56.08203**	**.1781124**	**-.011465**	**-.173371**	**.1553625**	**1.930031**
Stddev	.017427	.05640	.0001839	.000417	.194457	.0089330	.033666
%RSD	.2708044	.1005613	.1032617	3.633832	112.1623	5.749792	1.744343
#1	6.436510	56.12514	.1782329	-.011193	-.385597	.1541071	1.892633
#2	6.417488	56.01820	.1782035	-.011944	-.130770	.1648568	1.939540
#3	6.452293	56.10274	.1779006	-.011257	-.003746	.1471236	1.957921

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.557715**	**8.320255**	**-.029713**	**.0000186**	**3.110971**	**8.909736**	**.0692409**
Stddev	.044947	.017914	.000427	.0007316	.007365	.140028	.0004958
%RSD	.8087235	.2153061	1.437526	3927.940	.2367377	1.571633	.7160807
#1	5.512992	8.314775	-.029485	.0008628	3.113954	9.066492	.0697114
#2	5.602882	8.305722	-.029449	-.000375	3.102583	8.797029	.0692880
#3	5.557271	8.340269	-.030206	-.000432	3.116376	8.865685	.0687232

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5037-05 Acquired: 12/16/2024 4:07:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.051161	.0855376	.1232073
Stddev	.005844	.0005912	.0046738
%RSD	.5559517	.6911348	3.793473
#1	1.047065	.0862150	.1267710
#2	1.048565	.0851257	.1179155
#3	1.057853	.0852721	.1249354

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2567.300	31534.94	2954.060	2145.988	3022.255
Stddev	8.020	96.97	36.598	2.975	5.337
%RSD	.3123897	.3074860	1.238889	.1386329	.1765738
#1	2560.085	31595.74	2912.732	2149.421	3017.072
#2	2565.880	31423.12	2982.365	2144.168	3021.961
#3	2575.935	31585.97	2967.082	2144.373	3027.733

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5037-06 Acquired: 12/16/2024 4:11:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKC0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1232286**	**.0318928**	**4.383984**	**-.036669**	**.0152972**	**53.04460**	**2.204463**
Stddev	.0014655	.0030835	.009100	.002118	.0002456	.26605	.011006
%RSD	1.189275	9.668182	.2075694	5.777317	1.605619	.5015645	.4992694
#1	.1216375	.0352873	4.391145	-.037482	.0155780	52.77700	2.193108
#2	.1245232	.0311258	4.373744	-.034264	.0151914	53.30908	2.215083
#3	.1235252	.0292652	4.387062	-.038260	.0151223	53.04772	2.205198

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0049486**	**.0139653**	**397.6494**	**.1118662**	**.1258052**	**.3079774**	**129.6974**
Stddev	.0000734	.0000710	.7693	.0003462	.0008287	.0044246	.9140
%RSD	1.482674	.5080208	.1934497	.3095017	.6586834	1.436646	.7046855
#1	.0048764	.0140356	397.0436	.1120690	.1265082	.3120270	128.7604
#2	.0049463	.0138937	398.5149	.1114664	.1248916	.3086501	130.5864
#3	.0050231	.0139665	397.3898	.1120632	.1260160	.3032550	129.7455

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.38782**	**38.59752**	**.1438348**	**-.007263**	**.4870405**	**.1330359**	**1.654045**
Stddev	.04101	.32020	.0004058	.001262	.3730353	.0063137	.030160
%RSD	.3947557	.8295982	.2820951	17.37452	76.59225	4.745868	1.823397
#1	10.36288	38.41092	.1437295	-.008407	.6604122	.1403192	1.657159
#2	10.43514	38.96725	.1434921	-.005910	.7418397	.1291141	1.622450
#3	10.36543	38.41439	.1442828	-.007471	.0588697	.1296745	1.682528

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.617158**	**9.833343**	**-.015722**	**-.000209**	**2.644295**	**8.022366**	**.1768123**
Stddev	.052073	.023668	.003795	.000291	.008420	.125075	.0015822
%RSD	1.127815	.2406925	24.13702	138.9978	.3184231	1.559078	.8948326
#1	4.560375	9.859572	-.018569	-.000537	2.651087	8.056772	.1776020
#2	4.628422	9.813580	-.017183	.000017	2.634874	8.126638	.1749908
#3	4.662677	9.826876	-.011414	-.000107	2.646923	7.883689	.1778443

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5037-06 Acquired: 12/16/2024 4:11:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKC0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.9265907	.4900169	.1308993
Stddev	.0039153	.0017808	.0047190
%RSD	.4225525	.3634062	3.605101
#1	.9285304	.4888210	.1324538
#2	.9291576	.4920634	.1346450
#3	.9220842	.4891662	.1255991

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2512.413	31058.44	2983.151	2117.566	2860.921
Stddev	7.723	151.23	34.187	11.410	10.158
%RSD	.3073805	.4869147	1.145991	.5388312	.3550583
#1	2514.724	31166.66	2979.446	2121.806	2864.506
#2	2518.716	31123.03	2950.967	2126.249	2868.802
#3	2503.798	30885.65	3019.039	2104.643	2849.457

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5037-07 Acquired: 12/16/2024 4:15:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKC0D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1234626	.0327204	4.377499	-.036014	.0173850	53.00626	2.203081
Stddev	.0050581	.0012056	.009408	.006734	.0025129	.28419	.014852
%RSD	4.096852	3.684538	.2149093	18.69952	14.45439	.5361459	.6741442
#1	.1222899	.0319517	4.366771	-.042967	.0148249	52.68954	2.187884
#2	.1290040	.0320995	4.384340	-.029522	.0198479	53.09025	2.203795
#3	.1190939	.0341098	4.381385	-.035552	.0174820	53.23898	2.217562

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049058	.0140529	396.6571	.1119692	.1254635	.3069818	128.9831
Stddev	.0001013	.0001124	1.2619	.0009934	.0007604	.0009596	.7877
%RSD	2.065169	.7999356	.3181281	.8871837	.6060410	.3126060	.6107335
#1	.0050226	.0140644	395.2010	.1118571	.1249799	.3063790	128.1285
#2	.0048544	.0139351	397.4327	.1110367	.1250707	.3064780	129.1405
#3	.0048405	.0141590	397.3375	.1130139	.1263399	.3080885	129.6802

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.37202	38.41353	.1433600	-.008241	-.080142	.1332892	1.658626
Stddev	.05810	.26917	.0012599	.000968	.431561	.0053649	.017753
%RSD	.5601633	.7007187	.8788645	11.74356	538.4980	4.024986	1.070335
#1	10.31367	38.11684	.1443142	-.007168	.414970	.1327499	1.640259
#2	10.37252	38.48167	.1438340	-.009048	-.278773	.1282144	1.675693
#3	10.42986	38.64208	.1419318	-.008506	-.376622	.1389034	1.659926

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.510755	9.823918	-.017521	-.000655	2.610936	7.981219	.1747470
Stddev	.049787	.024163	.002547	.000408	.016443	.039917	.0021795
%RSD	1.103745	.2459583	14.53881	62.31090	.6297822	.5001404	1.247233
#1	4.537959	9.845005	-.017379	-.000267	2.611694	7.992650	.1744275
#2	4.541013	9.797552	-.015047	-.001080	2.594127	7.936833	.1770686
#3	4.453293	9.829196	-.020136	-.000616	2.626987	8.014173	.1727449

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5037-07 Acquired: 12/16/2024 4:15:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKC0D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.9238546	.4877649	.1280871
Stddev	.0067963	.0024013	.0028650
%RSD	.7356520	.4923042	2.236773
#1	.9166397	.4855133	.1309902
#2	.9247884	.4874892	.1280092
#3	.9301358	.4902921	.1252618

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2516.929	30953.44	2989.512	2107.944	2866.753
Stddev	14.337	278.67	25.656	18.455	12.912
%RSD	.5696119	.9002813	.8582063	.8755201	.4504189
#1	2533.257	31252.20	3019.059	2127.267	2881.592
#2	2511.125	30700.55	2976.606	2090.500	2860.592
#3	2506.403	30907.56	2972.871	2106.064	2858.075

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5037-06LX5 Acquired: 12/16/2024 4:19:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKC0L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0208749	.0188755	.9005169	-.030849	-.006567	11.74885	.4912544
Stddev	.0043699	.0024868	.0052915	.002384	.000808	.14157	.0065361
%RSD	20.93386	13.17456	.5876031	7.728620	12.29790	1.204977	1.330494
#1	.0210104	.0183076	.8946712	-.029292	-.005899	11.85042	.4947905
#2	.0164388	.0167218	.9049795	-.029662	-.007464	11.58714	.4837121
#3	.0251755	.0215971	.9018998	-.033594	-.006338	11.80901	.4952608

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011810	.0027721	89.03449	.0262030	.0444380	.0563548	29.28750
Stddev	.0001823	.0000860	1.07046	.0007624	.0007850	.0045189	.47839
%RSD	15.43504	3.103745	1.202296	2.909619	1.766604	8.018643	1.633439
#1	.0009877	.0028705	89.72249	.0255945	.0435319	.0592222	29.40962
#2	.0013498	.0027107	87.80118	.0270582	.0449142	.0511457	28.75989
#3	.0012057	.0027352	89.57980	.0259563	.0448679	.0586964	29.69300

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.357922	8.765055	.0282758	-.002073	-.193172	.0209662	.3688500
Stddev	.033343	.107623	.0007259	.001255	.682025	.0057573	.0060496
%RSD	1.414081	1.227862	2.567028	60.50574	353.0652	27.45973	1.640135
#1	2.377574	8.868007	.0277458	-.003331	.580797	.0217255	.3746851
#2	2.319423	8.653302	.0291031	-.002068	-.454117	.0148670	.3692582
#3	2.376768	8.773858	.0279785	-.000822	-.706198	.0263062	.3626065

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.249860	1.936291	-.009197	-.002114	.5145835	1.863385	.0349873
Stddev	.131625	.004107	.002497	.000371	.0060879	.031487	.0018307
%RSD	52.67943	.2120939	27.15213	17.55588	1.183065	1.689798	5.232525
#1	-.223345	1.932810	-.011825	-.002538	.5087197	1.899680	.0334805
#2	-.392723	1.935244	-.006855	-.001959	.5208731	1.843379	.0370247
#3	-.133511	1.940820	-.008909	-.001847	.5141576	1.847095	.0344566

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5037-06LX5 Acquired: 12/16/2024 4:19:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKC0L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2057756	.1086415	.0521015
Stddev	.0047195	.0013172	.0010044
%RSD	2.293511	1.212404	1.927705
#1	.2050603	.1091402	.0522645
#2	.2014546	.1071478	.0510256
#3	.2108119	.1096365	.0530144

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2369.869	29262.29	2730.356	2005.104	3093.697
Stddev	3.795	123.23	34.812	7.861	7.895
%RSD	.1601407	.4211075	1.275014	.3920437	.2551843
#1	2371.751	29368.73	2694.510	2012.125	3101.863
#2	2372.354	29290.84	2764.033	2006.576	3093.122
#3	2365.500	29127.29	2732.524	1996.612	3086.105

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5037-08 Acquired: 12/16/2024 4:23:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKC0S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2045277**	**.1274580**	**4.324031**	**.1261547**	**.1734294**	**55.32379**	**5.824049**
Stddev	.0061525	.0007516	.018923	.0044735	.0012647	.07853	.004429
%RSD	3.008152	.5897108	.4376256	3.546008	.7292228	.1419501	.0760386
#1	.2026122	.1266436	4.303186	.1278920	.1738844	55.23328	5.819187
#2	.1995607	.1281250	4.328780	.1210732	.1720002	55.36427	5.827852
#3	.2114101	.1276054	4.340128	.1294990	.1744037	55.37383	5.825107

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0946073**	**.1109443**	**386.9360**	**.5014429**	**1.248822**	**.7413259**	**128.3170**
Stddev	.0007899	.0003061	.2512	.0022534	.003477	.0039842	.3335
%RSD	.8349778	.2759035	.0649181	.4493897	.2784071	.5374455	.2598725
#1	.0944598	.1105957	387.2097	.4989012	1.245314	.7432184	128.0323
#2	.0939015	.1110682	386.7160	.5031963	1.248886	.7440111	128.6839
#3	.0954606	.1111691	386.8822	.5022312	1.252266	.7367482	128.2349

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.04278**	**37.57664**	**1.181680**	**.0651612**	**-.079727**	**1.057484**	**2.379096**
Stddev	.01734	.09794	.001518	.0007952	.552105	.005820	.024513
%RSD	.1570393	.2606355	.1284916	1.220386	692.4941	.5503975	1.030335
#1	11.03231	37.62939	1.179967	.0645833	-.569664	1.050802	2.398899
#2	11.03322	37.46364	1.182861	.0660681	-.188017	1.061453	2.386709
#3	11.06279	37.63690	1.182212	.0648323	.518499	1.060196	2.351680

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.443109**	**9.595582**	**-.022580**	**-.000461**	**2.560354**	**7.970423**	**.1696925**
Stddev	.089021	.019476	.003113	.000355	.009146	.025433	.0019462
%RSD	2.003585	.2029643	13.78507	77.12335	.3572120	.3190890	1.146869
#1	4.495691	9.574487	-.025194	-.000834	2.563525	7.999785	.1697010
#2	4.340325	9.599382	-.023409	-.000127	2.567493	7.956258	.1677420
#3	4.493310	9.612878	-.019137	-.000421	2.550045	7.955228	.1716343

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5037-08 Acquired: 12/16/2024 4:23:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKC0S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.9068133	.4781271	.1234748
Stddev	.0016736	.0010213	.0046091
%RSD	.1845589	.2136048	3.732783
#1	.9075865	.4791540	.1183564
#2	.9079605	.4771115	.1272969
#3	.9048929	.4781156	.1247711

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2538.822	31388.35	2994.685	2142.065	2907.573
Stddev	6.350	168.17	3.417	12.295	5.875
%RSD	.2501216	.5357705	.1141084	.5739604	.2020519
#1	2531.599	31446.96	2993.026	2134.690	2900.829
#2	2541.340	31198.72	2992.414	2135.246	2910.310
#3	2543.527	31519.37	2998.615	2156.258	2911.580

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5037-09 Acquired: 12/16/2024 4:27:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKC1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1256188**	**.0266523**	**1.742838**	**-.010909**	**.0244549**	**61.57740**	**1.370435**
Stddev	.0025535	.0052250	.002699	.000698	.0030855	.35251	.008114
%RSD	2.032719	19.60439	.1548762	6.400365	12.61694	.5724650	.5920431
#1	.1229387	.0288801	1.740713	-.010618	.0227729	61.30943	1.364195
#2	.1280232	.0206826	1.741926	-.011705	.0225759	61.97673	1.379607
#3	.1258946	.0303941	1.745875	-.010403	.0280158	61.44605	1.367503

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0055851**	**.0054751**	**86.89872**	**.0906312**	**.1438656**	**.2382225**	**154.8190**
Stddev	.0001535	.0000769	.56834	.0012760	.0004563	.0098169	1.3899
%RSD	2.748124	1.404739	.6540293	1.407899	.3171990	4.120893	.8977434
#1	.0056757	.0054248	86.66177	.0921038	.1438378	.2270454	154.0284
#2	.0054078	.0054370	87.54720	.0898533	.1434238	.2454467	156.4238
#3	.0056717	.0055637	86.48719	.0899366	.1443352	.2421753	154.0048

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.89147**	**21.47055**	**.1269486**	**-.008122**	**-.192436**	**.1379335**	**.7104758**
Stddev	.11113	.20897	.0006740	.000304	.447278	.0050742	.0078537
%RSD	.6992877	.9732779	.5309455	3.742612	232.4295	3.678717	1.105414
#1	15.81833	21.31264	.1268464	-.008457	.065885	.1437510	.7014234
#2	16.01935	21.70751	.1263315	-.007864	.065715	.1356288	.7145313
#3	15.83674	21.39150	.1276679	-.008045	-.708908	.1344206	.7154726

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.222502**	**7.163857**	**-.050511**	**.0014130**	**1.111789**	**7.755003**	**.1324901**
Stddev	.178174	.008812	.003984	.0000654	.004342	.012748	.0009596
%RSD	4.219623	.1230059	7.886439	4.624959	.3905618	.1643897	.7242690
#1	4.022805	7.158095	-.053652	.0013598	1.111310	7.768351	.1316367
#2	4.279491	7.159475	-.046031	.0014860	1.107706	7.753705	.1323047
#3	4.365209	7.174001	-.051851	.0013934	1.116351	7.742953	.1335288

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5037-09 Acquired: 12/16/2024 4:27:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKC1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8218774	.0869193	.0934464
Stddev	.0044060	.0006046	.0032430
%RSD	.5360950	.6956473	3.470423
#1	.8184317	.0870402	.0929450
#2	.8268420	.0874543	.0904834
#3	.8203587	.0862633	.0969109

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2581.161	31789.33	2967.701	2169.391	3073.515
Stddev	8.239	65.54	6.342	5.227	10.889
%RSD	.3191953	.2061728	.2136862	.2409217	.3542879
#1	2580.520	31800.53	2964.304	2175.144	3066.056
#2	2589.702	31718.91	2963.782	2164.936	3086.010
#3	2573.262	31848.54	2975.017	2168.093	3068.479

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: CCV036 Acquired: 12/16/2024 4:31:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV036 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.681104**	**4.601971**	**23.14568**	**4.622364**	**4.525384**	**364.6959**
Stddev	.025564	.071218	.33532	.074023	.080670	.7047
%RSD	.5461154	1.547558	1.448757	1.601408	1.782609	.1932336
#1	4.672576	4.657322	23.44727	4.668977	4.584765	364.0984
#2	4.709842	4.626967	23.20518	4.661105	4.557848	365.4730
#3	4.660894	4.521625	22.78459	4.537011	4.433540	364.5162

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.665233**	**.4680634**	**2.327075**	**380.3446**	**15.15398**	**2.662973**
Stddev	.020608	.0039230	.034295	.7757	.03908	.040310
%RSD	.2132174	.8381313	1.473742	.2039360	.2579095	1.513705
#1	9.654739	.4639065	2.358240	380.3807	15.17536	2.699093
#2	9.688976	.4717008	2.332651	381.1015	15.17771	2.670337
#3	9.651985	.4685829	2.290334	379.5515	15.10887	2.619489

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.61346**	**368.4347**	**13.82852**	**370.2188**	**2.439711**	**1.167224**
Stddev	.03041	1.1476	.04678	1.2822	.039279	.001963
%RSD	.2080676	.3114779	.3382936	.3463492	1.609984	.1682029
#1	14.60331	367.6529	13.80495	370.2785	2.475359	1.169491
#2	14.64765	369.7522	13.88240	371.4702	2.446171	1.166085
#3	14.58943	367.8989	13.79822	368.9078	2.397602	1.166096

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**374.1311**	**2.344161**	**14.14194**	**164.9154**	**4.647621**	**4.682057**
Stddev	.9320	.010599	.10977	.6701	.073496	.037791
%RSD	.2491097	.4521301	.7762360	.4063001	1.581364	.8071469
#1	373.1592	2.347499	14.26226	164.1496	4.716852	4.639242
#2	375.0173	2.352689	14.11632	165.3937	4.655514	4.696164
#3	374.2168	2.332296	14.04724	165.2030	4.570498	4.710765

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: CCV036 Acquired: 12/16/2024 4:31:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV036 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 4.493963	4.868644	4.664812	4.680498	4.725496	4.560157
Stddev	.074008	.070548	.048777	.067223	.014301	.012330
%RSD	1.646829	1.449035	1.045630	1.436235	.3026284	.2703840
#1	4.553423	4.921565	4.609423	4.737795	4.730983	4.559871
#2	4.517389	4.895817	4.701348	4.697200	4.736241	4.572628
#3	4.411077	4.788549	4.683665	4.606498	4.709264	4.547973

Elem	Li6707
Units	ppm
Avg	5.050673
Stddev	.024024
%RSD	.4756659
#1	5.029596
#2	5.076832
#3	5.045592

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1971.421	25830.08	2564.770	1633.611	2590.369
Stddev	29.294	50.56	24.467	2.648	36.182
%RSD	1.485955	.1957480	.9539711	.1620807	1.396774
#1	1943.930	25825.65	2592.152	1636.576	2553.602
#2	1968.097	25781.87	2545.053	1631.484	2591.569
#3	2002.236	25882.71	2557.106	1632.771	2625.935

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: CCB036 Acquired: 12/16/2024 4:59:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB036 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001370**	**.0018520**	**.0048113**	**-.002265**	**-.001360**	**-.008633**
Stddev	.001608	.0021216	.0027417	.004737	.001320	.005404
%RSD	117.3665	114.5547	56.98501	209.1157	97.03555	62.59250
#1	.000413	.0011541	.0049640	.002481	-.001948	-.012926
#2	-.002711	.0042347	.0019964	-.002283	.000152	-.002565
#3	-.001812	.0001674	.0074734	-.006994	-.002283	-.010408

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006658**	**.0001025**	**.0000380**	**.0221275**	**.0001870**	**-.000096**
Stddev	.0012857	.0000864	.0000608	.0245166	.0007124	.000278
%RSD	193.1173	84.26138	160.1700	110.7969	380.8658	288.7570
#1	.0021426	.0000092	-.000029	.0091106	-.000621	-.000394
#2	-.000204	.0001796	.000052	.0504070	.000457	-.000052
#3	.000059	.0001187	.000091	.0068648	.000725	.000157

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004740**	**-.013871**	**.0007068**	**.0764791**	**.0003494**	**.0004379**
Stddev	.009807	.037971	.0004250	.0698992	.0005031	.0004412
%RSD	206.9017	273.7364	60.12476	91.39644	144.0248	100.7571
#1	-.016063	-.001230	.0006975	.0493580	.0005202	.0009360
#2	.001069	-.056550	.0002866	.1558746	-.000217	.0000963
#3	.000774	.016167	.0011364	.0242048	.000745	.0002813

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.349525**	**-.010736**	**-.001621**	**-1.16115**	**.0007668**	**.0158982**
Stddev	.870565	.011420	.000430	.12727	.0034848	.0007455
%RSD	249.0706	106.3745	26.51601	10.96101	454.4490	4.689104
#1	-1.14668	-.021756	-.001127	-1.01931	.0035432	.0151352
#2	.57942	-.011499	-.001829	-1.19877	-.003144	.0166249
#3	-.48132	.001047	-.001907	-1.26538	.001901	.0159346

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: CCB036 Acquired: 12/16/2024 4:59:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB036 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008982	-.010199	.0007169	.0016393	-.002316	.0000217
Stddev	.0001648	.002358	.0003960	.0016342	.002082	.0002898
%RSD	18.34991	23.11850	55.23485	99.68851	89.87995	1338.007
#1	.0008216	-.008971	.0003026	-.000152	-.000130	.0002687
#2	.0010874	-.008709	.0010915	.003049	-.002542	.0000936
#3	.0007857	-.012918	.0007565	.002020	-.004275	-.000297

Elem	Li6707
Units	ppm
Avg	F .0442817
Stddev	.0031753
%RSD	7.170622
#1	.0479425
#2	.0426267
#3	.0422757

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2342.352	28588.53	2640.199	1952.793	3219.699
Stddev	3.889	56.18	5.385	14.608	4.860
%RSD	.1660462	.1965177	.2039793	.7480701	.1509409
#1	2339.555	28528.36	2635.548	1936.324	3214.474
#2	2346.793	28597.61	2638.951	1964.187	3224.084
#3	2340.706	28639.62	2646.099	1957.868	3220.540

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5037-10 Acquired: 12/16/2024 5:03:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKC2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1367711**	**.0180153**	**7.655100**	**-.008968**	**.0267684**	**51.18866**	**3.517534**
Stddev	.0056875	.0015441	.020071	.005444	.0008890	.17624	.009853
%RSD	4.158439	8.571260	.2621879	60.70628	3.321187	.3442886	.2801065
#1	.1313250	.0163060	7.656560	-.009909	.0277892	51.25580	3.523896
#2	.1363156	.0193092	7.634338	-.013880	.0261641	51.32145	3.522523
#3	.1426727	.0184309	7.674400	-.003114	.0263518	50.98872	3.506185

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0054438**	**.0318463**	**78.97577**	**.1438246**	**.1042874**	**.4828837**	**138.8503**
Stddev	.0001025	.0000562	.28980	.0005970	.0002334	.0068690	.4754
%RSD	1.882155	.1763592	.3669526	.4150981	.2237904	1.422485	.3423744
#1	.0054066	.0319089	79.13965	.1438574	.1045540	.4907920	139.3609
#2	.0055597	.0318004	79.14651	.1432119	.1041884	.4784036	138.7696
#3	.0053651	.0318296	78.64116	.1444046	.1041199	.4794555	138.4204

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.342956**	**27.83372**	**.1790483**	**-.007834**	**-.178857**	**.1276116**	**3.165105**
Stddev	.027626	.14871	.0011614	.001479	.477092	.0073304	.036396
%RSD	.3311339	.5342829	.6486365	18.88473	266.7441	5.744303	1.149922
#1	8.372980	28.00522	.1803875	-.006603	-.594983	.1191473	3.194641
#2	8.337279	27.74042	.1783171	-.009475	-.283439	.1317978	3.124445
#3	8.318610	27.75553	.1784404	-.007424	.341849	.1318895	3.176230

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.430143**	**7.764026**	**-.020718**	**.0020108**	**2.530684**	**7.326079**	**.1189269**
Stddev	.083752	.006539	.002389	.0006597	.003928	.065577	.0008563
%RSD	1.890506	.0842255	11.52960	32.80943	.1552128	.8951238	.7200309
#1	4.522453	7.761598	-.021585	.0023925	2.527355	7.300589	.1196438
#2	4.408959	7.759048	-.022553	.0012490	2.529682	7.400575	.1179787
#3	4.359017	7.771432	-.018017	.0023907	2.535017	7.277074	.1191583

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5037-10 Acquired: 12/16/2024 5:03:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKC2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8935289	.1754824	.1042978
Stddev	.0037424	.0012440	.0006537
%RSD	.4188324	.7089095	.6267665
#1	.8896226	.1768676	.1035848
#2	.8970825	.1744605	.1044396
#3	.8938814	.1751190	.1048690

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2574.421	31643.57	2941.205	2161.455	3079.546
Stddev	5.276	140.52	15.698	10.500	2.643
%RSD	.2049419	.4440628	.5337311	.4858013	.0858095
#1	2570.378	31575.72	2947.597	2153.920	3077.259
#2	2572.497	31805.13	2923.319	2173.449	3078.939
#3	2580.390	31549.84	2952.698	2156.997	3082.439

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5037-11 Acquired: 12/16/2024 5:07:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKC3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2831000	.0266853	.4732506	.0157961	.0415799	68.48975	.6584561
Stddev	.0030222	.0010067	.0025795	.0019782	.0016689	.42477	.0042277
%RSD	1.067523	3.772340	.5450611	12.52348	4.013614	.6201969	.6420642
#1	.2863996	.0257692	.4750304	.0151792	.0414525	68.37296	.6591953
#2	.2804664	.0277630	.4744292	.0141998	.0433088	68.96070	.6622654
#3	.2824341	.0265236	.4702924	.0180093	.0399784	68.13559	.6539075

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0067980	.0041338	28.82132	.0930180	.2192016	.3197292	199.9344
Stddev	.0001608	.0001664	.16013	.0000622	.0007667	.0012167	1.1473
%RSD	2.365383	4.024815	.5555869	.0668292	.3497907	.3805507	.5738147
#1	.0066660	.0039433	28.82445	.0930245	.2200781	.3210301	199.1964
#2	.0069771	.0042503	28.97986	.0929528	.2186551	.3195383	201.2561
#3	.0067509	.0042079	28.65965	.0930766	.2188717	.3186192	199.3507

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.68282	15.35504	.1508443	-.013044	-.432152	.1459825	.4708573
Stddev	.13057	.09076	.0005350	.000330	.015373	.0075254	.0076596
%RSD	.5513169	.5910965	.3546803	2.528857	3.557240	5.155003	1.626736
#1	23.63241	15.27048	.1514225	-.012884	-.447887	.1471347	.4792437
#2	23.83108	15.45094	.1503668	-.013423	-.417169	.1528653	.4690972
#3	23.58497	15.34369	.1507436	-.012824	-.431400	.1379474	.4642309

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.681647	3.819343	-.079581	.0101444	.5984464	5.556458	.0301448
Stddev	.218324	.003773	.003890	.0003746	.0015104	.070534	.0015048
%RSD	5.930065	.0987864	4.887605	3.692363	.2523906	1.269412	4.991753
#1	3.909911	3.822036	-.078171	.0098968	.5976896	5.520047	.0295775
#2	3.660181	3.820963	-.083979	.0105754	.6001856	5.637756	.0318507
#3	3.474848	3.815031	-.076594	.0099612	.5974640	5.511569	.0290061

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5037-11 Acquired: 12/16/2024 5:07:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKC3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.9114058	-.058756	.0827658
Stddev	.0099598	.000684	.0022359
%RSD	1.092800	1.163451	2.701529
#1	.9015393	-.058274	.0840223
#2	.9214564	-.059539	.0840908
#3	.9112216	-.058456	.0801842

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2731.417	33566.18	3083.746	2292.271	3103.050
Stddev	8.593	210.19	28.221	17.555	3.613
%RSD	.3145818	.6262086	.9151580	.7658320	.1164273
#1	2741.337	33410.97	3083.315	2277.112	3107.215
#2	2726.615	33805.38	3055.744	2311.505	3101.176
#3	2726.298	33482.17	3112.181	2288.196	3100.759

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5037-12 Acquired: 12/16/2024 5:11:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK75 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0331092**	**.0261534**	**.1077838**	**-.049108**	**.0121349**	**59.13153**
Stddev	.0046143	.0022195	.0028173	.003359	.0042284	.18725
%RSD	13.93660	8.486430	2.613835	6.840417	34.84522	.3166725
#1	.0352578	.0253212	.1049114	-.050448	.0132619	59.14078
#2	.0362574	.0244703	.1078974	-.051590	.0156857	59.31399
#3	.0278124	.0286687	.1105426	-.045285	.0074572	58.93982

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6812129**	**.0047077**	**.0033042**	F **846.8011**	**.0990095**	**.1224419**
Stddev	.0019329	.0001309	.0000741	2.2698	.0008753	.0005979
%RSD	.2837483	2.780396	2.242737	.2680471	.8840865	.4882757
#1	.6813219	.0048521	.0033598	847.6701	.1000201	.1229421
#2	.6830890	.0046742	.0033328	848.5080	.0985226	.1217798
#3	.6792278	.0045968	.0032201	844.2251	.0984860	.1226040

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0938133**	**142.7245**	**3.240116**	**113.8780**	**.1741596**	**-.013792**
Stddev	.0084845	.3277	.014898	.3736	.0021424	.000703
%RSD	9.043984	.2295952	.4597996	.3280429	1.230161	5.100002
#1	.1035308	142.6213	3.238505	113.8798	.1765362	-.014130
#2	.0900332	143.0914	3.255754	114.2507	.1723765	-.014262
#3	.0878759	142.4608	3.226089	113.5036	.1735660	-.012983

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.161278**	**.1277298**	**.2928277**	**4.434714**	**6.544688**	**-.040207**
Stddev	.539139	.0029772	.0052693	.045462	.006276	.002407
%RSD	334.2914	2.330855	1.799467	1.025142	.0958983	5.986785
#1	.123545	.1264924	.2868736	4.431613	6.551758	-.040762
#2	-.783093	.1255709	.2968897	4.390882	6.542535	-.042288
#3	.175714	.1311262	.2947199	4.481647	6.539772	-.037570

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5037-12 Acquired: 12/16/2024 5:11:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK75 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002838	1.615945	8.585012	.0225467	.8643174	.5409548
Stddev	.000711	.003254	.044405	.0012417	.0088124	.0031203
%RSD	25.06327	.2013522	.5172440	5.507121	1.019585	.5768215
#1	-.002713	1.619529	8.619370	.0239493	.8645050	.5399375
#2	-.002197	1.613176	8.600795	.0215880	.8730346	.5444568
#3	-.003603	1.615131	8.534871	.0221028	.8554127	.5384701

Elem	Li6707
Units	ppm
Avg	.2199068
Stddev	.0016539
%RSD	.7520807
#1	.2202395
#2	.2181118
#3	.2213690

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2353.689	29056.30	2807.347	1975.418	2681.868
Stddev	6.783	238.60	11.654	15.330	7.709
%RSD	.2881913	.8211707	.4151193	.7760456	.2874593
#1	2359.939	29326.07	2813.695	1992.515	2690.659
#2	2354.652	28969.92	2793.898	1970.843	2678.681
#3	2346.476	28872.93	2814.449	1962.897	2676.262

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5037-13 Acquired: 12/16/2024 5:15:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK76 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1110165**	**.0155322**	**1.314760**	**-.023390**	**.0026412**	**49.94354**	**.9837414**
Stddev	.0028405	.0017997	.005070	.003981	.0008988	.24947	.0063717
%RSD	2.558626	11.58716	.3856415	17.01849	34.02875	.4995077	.6477038
#1	.1136102	.0134573	1.309632	-.025615	.0019095	50.14082	.9856085
#2	.1079810	.0166712	1.314878	-.018794	.0036445	50.02669	.9889710
#3	.1114585	.0164680	1.319771	-.025760	.0023698	49.66312	.9766447

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0066578**	**.0034043**	**88.75884**	**.0522621**	**.0891542**	**.2719109**	**35.48088**
Stddev	.0001203	.0001495	.17653	.0002868	.0003417	.0038773	.28268
%RSD	1.806242	4.390990	.1988897	.5487244	.3832853	1.425932	.7967060
#1	.0065751	.0035565	88.71917	.0520049	.0889135	.2685920	35.40008
#2	.0067958	.0033988	88.95183	.0522101	.0890038	.2761726	35.79516
#3	.0066027	.0032577	88.60551	.0525713	.0895453	.2709680	35.24740

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.590288**	**7.582662**	**.0985913**	**-.002857**	**.8816748**	**.1630371**	**.7040486**
Stddev	.011518	.052461	.0004289	.000782	.0482970	.0025847	.0099099
%RSD	.4446781	.6918542	.4350756	27.37381	5.477865	1.585319	1.407560
#1	2.598879	7.636452	.0981872	-.001959	.8598845	.1601253	.6981637
#2	2.594785	7.579894	.0990414	-.003226	.9370276	.1650600	.7154900
#3	2.577199	7.531639	.0985452	-.003386	.8481123	.1639260	.6984920

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.931175**	**7.547350**	**.0279841**	**.0134760**	**2.222790**	**6.063903**	**.0406110**
Stddev	.165035	.027360	.0015691	.0004334	.009191	.038965	.0010406
%RSD	3.346777	.3625107	5.607145	3.216190	.4135049	.6425687	2.562395
#1	5.093831	7.523338	.0289321	.0137641	2.215628	6.108896	.0401328
#2	4.935833	7.541575	.0261729	.0129775	2.219587	6.041531	.0418048
#3	4.763859	7.577136	.0288473	.0136863	2.233154	6.041283	.0398955

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5037-13 Acquired: 12/16/2024 5:15:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK76 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5360974	.3226310	.1727661
Stddev	.0030486	.0026563	.0028444
%RSD	.5686728	.8233239	1.646387
#1	.5335944	.3238888	.1727982
#2	.5394926	.3244247	.1699058
#3	.5352053	.3195794	.1755943

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2479.836	30743.68	2844.439	2092.705	3112.665
Stddev	9.518	82.45	28.254	6.475	7.634
%RSD	.3838011	.2681758	.9933019	.3094251	.2452485
#1	2490.744	30757.89	2813.865	2099.790	3121.477
#2	2473.224	30655.05	2849.867	2087.094	3108.050
#3	2475.538	30818.09	2869.585	2091.230	3108.469

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5037-14 Acquired: 12/16/2024 5:19:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK77 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1593942**	**.0198535**	**2.937838**	**-.013589**	**.0123516**	**58.22104**	**2.329622**
Stddev	.0047365	.0017282	.018724	.000772	.0006388	.16848	.001891
%RSD	2.971538	8.704918	.6373310	5.678598	5.171502	.2893869	.0811629
#1	.1539330	.0209679	2.940588	-.014448	.0129412	58.06805	2.328106
#2	.1623800	.0178627	2.917891	-.013362	.0124407	58.19344	2.329019
#3	.1618697	.0207300	2.955034	-.012956	.0116730	58.40162	2.331741

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0070608**	**.0103299**	**74.23943**	**.0991001**	**.1198623**	**.3391480**	**67.98575**
Stddev	.0001077	.0001001	.09089	.0007289	.0006070	.0043303	.12439
%RSD	1.525417	.9690714	.1224274	.7355582	.5063817	1.276820	.1829626
#1	.0069382	.0103333	74.13962	.0993056	.1199063	.3346420	67.89548
#2	.0071402	.0102281	74.26123	.0997042	.1192345	.3432781	68.12764
#3	.0071040	.0104282	74.31744	.0982904	.1204461	.3395240	67.93414

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.572586**	**11.73443**	**.1548667**	**-.002167**	**1.627402**	**.3091419**	**3.362629**
Stddev	.017872	.05711	.0007304	.000359	.253865	.0039041	.039291
%RSD	.2084732	.4866969	.4716273	16.56466	15.59941	1.262867	1.168457
#1	8.552683	11.72148	.1544066	-.001869	1.685830	.3130311	3.347325
#2	8.587259	11.68491	.1544846	-.002065	1.846959	.3052232	3.407269
#3	8.577815	11.79691	.1557089	-.002565	1.349417	.3091713	3.333293

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.273169**	**9.894550**	**.0220756**	**.0172988**	**2.334006**	**7.227260**	**.1135314**
Stddev	.131533	.051167	.0016616	.0007673	.019201	.059829	.0008157
%RSD	1.589877	.5171259	7.526963	4.435873	.8226662	.8278213	.7185040
#1	8.139912	9.895463	.0236278	.0167676	2.330645	7.219338	.1125900
#2	8.402908	9.842932	.0222763	.0169502	2.316708	7.171787	.1139739
#3	8.276687	9.945254	.0203228	.0181785	2.354666	7.290655	.1140302

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5037-14 Acquired: 12/16/2024 5:19:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK77 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7123662	.4181279	.1864557
Stddev	.0041158	.0011587	.0050355
%RSD	.5777615	.2771245	2.700643
#1	.7131445	.4173501	.1848713
#2	.7079169	.4175740	.1824030
#3	.7160373	.4194596	.1920929

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2580.838	31875.08	2955.051	2162.602	3109.239
Stddev	5.288	75.84	19.895	7.993	12.354
%RSD	.2049025	.2379204	.6732414	.3696104	.3973189
#1	2579.414	31894.51	2961.282	2169.010	3105.271
#2	2586.693	31791.42	2971.084	2153.646	3123.089
#3	2576.408	31939.31	2932.786	2165.151	3099.357

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5037-15 Acquired: 12/16/2024 5:23:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK79 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1756367**	**.0436280**	**8.807288**	**-.024539**	**.0193808**	**57.37775**
Stddev	.0019484	.0057920	.005409	.005711	.0013572	.12473
%RSD	1.109341	13.27585	.0614112	23.27199	7.002831	.2173791
#1	.1778399	.0384349	8.802637	-.031120	.0206195	57.25869
#2	.1741404	.0498743	8.806004	-.021607	.0179300	57.36709
#3	.1749298	.0425746	8.813223	-.020889	.0195929	57.50746

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.326748**	**.0056634**	**.0088193**	**291.6976**	**.1065876**	**.1550606**
Stddev	.004769	.0000604	.0000487	.6883	.0013340	.0006072
%RSD	.2049507	1.065726	.5519028	.2359638	1.251537	.3916007
#1	2.323509	.0056100	.0087663	290.9205	.1072024	.1548692
#2	2.324510	.0057289	.0088297	291.9419	.1075033	.1557405
#3	2.332224	.0056514	.0088620	292.2304	.1050570	.1545721

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4326808**	**155.2928**	**17.19628**	**32.36570**	**.1628577**	**-.005506**
Stddev	.0117721	.3352	.01735	.05937	.0006484	.000460
%RSD	2.720743	.2158618	.1009013	.1834377	.3981598	8.349946
#1	.4199525	155.4113	17.18309	32.42434	.1635761	-.005376
#2	.4431772	154.9144	17.18981	32.30562	.1623158	-.006017
#3	.4349127	155.5527	17.21593	32.36713	.1626812	-.005126

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1756973**	**.1507351**	**1.507949**	**9.611091**	F **20.71106**	**.0215736**
Stddev	.2486914	.0023135	.011988	.077555	.06513	.0020395
%RSD	141.5454	1.534801	.7949715	.8069355	.3144552	9.453927
#1	.3821018	.1529304	1.519991	9.524387	20.64029	.0230642
#2	-.100408	.1483193	1.507839	9.673849	20.72443	.0224073
#3	.245398	.1509557	1.496016	9.635037	20.76847	.0192492

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5037-15 Acquired: 12/16/2024 5:23:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK79 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0092071	2.388478	9.457591	.1855102	.9515240	.8694224
Stddev	.0006387	.011102	.076128	.0019062	.0029958	.0014069
%RSD	6.936965	.4648353	.8049394	1.027534	.3148465	.1618140
#1	.0097678	2.375878	9.375975	.1866606	.9528962	.8707967
#2	.0093416	2.392727	9.470124	.1833099	.9480878	.8679851
#3	.0085118	2.396828	9.526675	.1865602	.9535879	.8694854

Elem	Li6707
Units	ppm
Avg	.1463477
Stddev	.0065276
%RSD	4.460339
#1	.1388394
#2	.1495292
#3	.1506746

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2661.268	32924.40	3117.242	2243.118	2899.491
Stddev	9.834	101.62	10.918	10.645	8.521
%RSD	.3695341	.3086398	.3502471	.4745833	.2938950
#1	2653.306	32824.65	3128.614	2233.948	2894.378
#2	2658.238	32920.76	3116.268	2240.614	2894.768
#3	2672.261	33027.78	3106.843	2254.792	2909.329

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5037-16 Acquired: 12/16/2024 5:27:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK80 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1181787	.0405603	2.531899	-.019814	.0199157	54.27427
Stddev	.0023156	.0010384	.002466	.003213	.0015029	.24545
%RSD	1.959404	2.560159	.0973964	16.21308	7.546498	.4522430
#1	.1157911	.0393671	2.534457	-.018766	.0215456	54.08760
#2	.1183300	.0410541	2.529537	-.017257	.0185846	54.18291
#3	.1204149	.0412597	2.531703	-.023420	.0196169	54.55230

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.881991	.0050621	.0066789	198.4623	.0940670	.1423510
Stddev	.009347	.0002331	.0001373	.5846	.0008023	.0002767
%RSD	.4966420	4.604191	2.055128	.2945479	.8528943	.1943647
#1	1.877298	.0052751	.0065926	197.8853	.0934199	.1426042
#2	1.875921	.0048131	.0066070	198.4475	.0938164	.1420556
#3	1.892755	.0050981	.0068372	199.0542	.0949646	.1423932

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3296166	148.6363	18.03973	24.33257	.1352151	-.007427
Stddev	.0036203	.2447	.03534	.03944	.0006271	.001324
%RSD	1.098321	.1646257	.1959243	.1620778	.4637825	17.82394
#1	.3300923	148.6730	18.03230	24.35764	.1358097	-.008816
#2	.3329754	148.3754	18.00869	24.28711	.1345599	-.007285
#3	.3257820	148.8606	18.07820	24.35296	.1352758	-.006179

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.088644	.1135496	.8774124	9.165517	F 17.18190	.0014020
Stddev	.311307	.0046833	.0053099	.101818	.02718	.0020213
%RSD	351.1869	4.124464	.6051803	1.110883	.1582088	144.1710
#1	.169398	.1097358	.8782867	9.134813	17.15164	.0020511
#2	-.000933	.1121363	.8822309	9.279153	17.18981	.0030191
#3	-.434397	.1187768	.8717196	9.082584	17.20426	-.000864

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5037-16 Acquired: 12/16/2024 5:27:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK80 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0081440	1.703321	9.245339	.1026550	1.162869	.6700652
Stddev	.0004890	.004306	.111709	.0015154	.007434	.0014134
%RSD	6.003907	.2527813	1.208272	1.476200	.6392694	.2109302
#1	.0082462	1.699079	9.311007	.1013397	1.167899	.6685505
#2	.0076119	1.707688	9.116356	.1043121	1.154330	.6702964
#3	.0085737	1.703195	9.308654	.1023131	1.166379	.6713488

Elem	Li6707
Units	ppm
Avg	.1320958
Stddev	.0030202
%RSD	2.286371
#1	.1332124
#2	.1343987
#3	.1286763

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2650.041	32614.19	3079.378	2218.513	2985.905
Stddev	8.766	179.14	20.293	10.322	11.680
%RSD	.3307741	.5492654	.6589929	.4652818	.3911817
#1	2645.691	32684.12	3065.166	2225.020	2978.233
#2	2660.130	32410.63	3102.618	2206.611	2999.348
#3	2644.301	32747.81	3070.348	2223.908	2980.135

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5037-17 Acquired: 12/16/2024 5:31:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK81 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1242384**	**.0424192**	**2.195321**	**-.016534**	**.0239819**	**67.28183**
Stddev	.0018009	.0019349	.006733	.006461	.0036094	.08114
%RSD	1.449562	4.561384	.3066888	39.07931	15.05053	.1206035
#1	.1247398	.0427411	2.190077	-.019861	.0211535	67.34935
#2	.1222399	.0441730	2.202914	-.020653	.0227450	67.19181
#3	.1257355	.0403435	2.192973	-.009087	.0280471	67.30433

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.547948**	**.0065215**	**.0086540**	**208.7843**	**.1026441**	**.1630595**
Stddev	.003777	.0000685	.0001266	.4122	.0016773	.0002201
%RSD	.2439912	1.050785	1.463508	.1974448	1.634059	.1349952
#1	1.551821	.0065999	.0087356	208.6842	.1008060	.1630664
#2	1.544275	.0064913	.0085081	208.4313	.1030347	.1632762
#3	1.547749	.0064732	.0087183	209.2373	.1040916	.1628361

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3152068**	**182.6564**	**18.88515**	**67.90766**	**.1800237**	**-.010817**
Stddev	.0034253	.2204	.03377	.18285	.0004878	.000461
%RSD	1.086671	.1206860	.1788082	.2692601	.2709813	4.265714
#1	.3112842	182.8115	18.91748	68.07276	.1803577	-.010537
#2	.3167298	182.4041	18.85011	67.71114	.1802495	-.011350
#3	.3176064	182.7537	18.88785	67.93910	.1794639	-.010565

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0281892**	**.1458179**	**.7408501**	**8.042145**	F **14.51615**	**-.036857**
Stddev	.3083144	.0034760	.0117086	.068435	.00907	.002616
%RSD	1093.734	2.383793	1.580432	.8509567	.0624813	7.097013
#1	-.274206	.1498300	.7276272	8.031790	14.51665	-.038872
#2	.016673	.1439097	.7499024	7.979477	14.50684	-.033901
#3	.342100	.1437139	.7450208	8.115167	14.52496	-.037797

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5037-17 Acquired: 12/16/2024 5:31:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK81 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0121331**	**1.821779**	**8.026715**	**.0835419**	**.8294746**	**.2920890**
Stddev	.0004087	.004408	.078735	.0009068	.0007523	.0015365
%RSD	3.368809	.2419471	.9809109	1.085394	.0907002	.5260301
#1	.0123407	1.825159	8.117111	.0825428	.8298568	.2936217
#2	.0116622	1.816794	7.989921	.0843127	.8286079	.2920963
#3	.0123964	1.823386	7.973113	.0837702	.8299592	.2905488

Elem	Li6707
Units	ppm
Avg	**.1474191**
Stddev	.0008107
%RSD	.5499072
#1	.1468678
#2	.1470395
#3	.1483499

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2796.240**	**34431.45**	**3269.064**	**2346.080**	**2924.893**
Stddev	1.400	186.80	15.919	12.533	3.787
%RSD	.0500545	.5425172	.4869741	.5341971	.1294670
#1	2796.056	34623.53	3251.596	2358.298	2926.637
#2	2794.941	34420.40	3272.841	2346.687	2920.549
#3	2797.722	34250.43	3282.755	2333.255	2927.495

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5037-18 Acquired: 12/16/2024 5:35:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK82 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0949027	.0409977	1.046997	-.036375	.0192764	58.16116
Stddev	.0015024	.0022865	.003826	.003104	.0010052	.25140
%RSD	1.583098	5.577078	.3654380	8.533809	5.214401	.4322548
#1	.0935854	.0393543	1.049851	-.034245	.0202830	58.14084
#2	.0965390	.0400299	1.042649	-.039936	.0182727	57.92053
#3	.0945836	.0436089	1.048490	-.034942	.0192735	58.42211

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.092665	.0055441	.0063628	513.8371	.1004051	.1461760
Stddev	.005818	.0000899	.0000986	1.4730	.0004529	.0008273
%RSD	.5324588	1.621802	1.550259	.2866634	.4510441	.5659859
#1	1.092078	.0054778	.0063968	513.5475	.0999297	.1469718
#2	1.087162	.0055081	.0062516	512.5305	.1008314	.1453204
#3	1.098754	.0056464	.0064398	515.4334	.1004542	.1462357

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2879977	153.1462	12.17997	79.92753	.1737792	-.010420
Stddev	.0100815	.7842	.07349	.45262	.0006429	.000621
%RSD	3.500561	.5120908	.6033925	.5662856	.3699432	5.962979
#1	.2815111	153.1334	12.14716	79.92114	.1743104	-.011089
#2	.2828696	152.3685	12.12860	79.47815	.1730645	-.010309
#3	.2996124	153.9368	12.26416	80.38332	.1739626	-.009861

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.411501	.1283389	.6768301	6.647560	F 10.71462	-.027337
Stddev	.371379	.0055195	.0122651	.088142	.00280	.001353
%RSD	90.24988	4.300735	1.812143	1.325932	.0261706	4.950779
#1	-.111599	.1333286	.6752165	6.565074	10.71236	-.025850
#2	-.295996	.1224101	.6898222	6.637167	10.71375	-.028498
#3	-.826907	.1292781	.6654516	6.740437	10.71776	-.027662

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5037-18 Acquired: 12/16/2024 5:35:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK82 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0063809	1.962952	8.360160	.0512410	.7354426	.3161157
Stddev	.0003903	.009948	.054031	.0019589	.0067643	.0023677
%RSD	6.117053	.5068055	.6462904	3.822915	.9197527	.7489951
#1	.0064180	1.951480	8.322724	.0510908	.7351114	.3152828
#2	.0059733	1.969205	8.335655	.0532707	.7288500	.3142771
#3	.0067513	1.968170	8.422101	.0493616	.7423663	.3187873

Elem	Li6707
Units	ppm
Avg	.1635938
Stddev	.0019034
%RSD	1.163491
#1	.1626441
#2	.1623522
#3	.1657852

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2647.092	32611.05	3146.031	2224.894	2770.348
Stddev	15.156	57.24	20.553	6.592	15.543
%RSD	.5725475	.1755085	.6532885	.2962797	.5610598
#1	2630.667	32591.82	3158.187	2217.940	2754.653
#2	2650.073	32675.42	3157.605	2231.051	2770.656
#3	2660.536	32565.90	3122.302	2225.690	2785.735

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5037-19 Acquired: 12/16/2024 5:38:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKG6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0591947	.0328903	.1158168	-.040002	.0160480	47.11588	.7865610
Stddev	.0039634	.0016465	.0017238	.003202	.0018413	.65379	.0118301
%RSD	6.695586	5.006167	1.488410	8.003669	11.47380	1.387632	1.504033
#1	.0546332	.0311018	.1138915	-.037540	.0181742	46.40336	.7741176
#2	.0617970	.0343431	.1172173	-.038846	.0149876	47.68821	.7976636
#3	.0611539	.0332260	.1163415	-.043622	.0149823	47.25606	.7879018

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0036220	.0032486	535.6153	.0742992	.1411700	.1496708	145.6245
Stddev	.0001364	.0000525	6.5376	.0006624	.0002974	.0051589	1.7113
%RSD	3.764616	1.614650	1.220573	.8915563	.2106890	3.446852	1.175169
#1	.0034794	.0032063	528.4669	.0735441	.1412691	.1501997	143.6909
#2	.0037511	.0032323	541.2907	.0747826	.1408357	.1545449	146.9443
#3	.0036355	.0033073	537.0882	.0745708	.1414053	.1442678	146.2382

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.409833	111.8943	.1837101	-.012903	-.272691	.1109406	.2637643
Stddev	.112359	1.3825	.0008198	.001603	.263478	.0046190	.0073608
%RSD	1.336041	1.235513	.4462709	12.42448	96.62167	4.163498	2.790677
#1	8.285330	110.4189	.1833904	-.014505	-.006511	.1103205	.2706697
#2	8.503687	113.1598	.1830982	-.011299	-.533381	.1158383	.2646032
#3	8.440481	112.1041	.1846416	-.012905	-.278180	.1066629	.2560200

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.121552	6.574166	-.042036	-.001121	.6068577	9.302023	.0169643
Stddev	.067462	.022160	.002903	.000526	.0095398	.103363	.0018944
%RSD	1.636807	.3370841	6.905057	46.87227	1.572001	1.111192	11.16708
#1	4.150599	6.569586	-.040224	-.001128	.6162097	9.192975	.0153566
#2	4.169626	6.554654	-.040501	-.000592	.6072228	9.314529	.0164834
#3	4.044433	6.598259	-.045384	-.001643	.5971405	9.398563	.0190527

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5037-19 Acquired: 12/16/2024 5:38:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKG6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7422201	.4827228	.1658155
Stddev	.0146264	.0066426	.0018237
%RSD	1.970627	1.376069	1.099863
#1	.7255460	.4751787	.1639051
#2	.7528835	.4876947	.1660032
#3	.7482307	.4852949	.1675381

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2444.921	30075.72	2899.518	2045.660	2758.963
Stddev	6.845	160.05	27.845	12.294	10.092
%RSD	.2799807	.5321651	.9603257	.6009583	.3657858
#1	2442.627	30135.12	2931.428	2042.521	2750.093
#2	2439.517	29894.46	2880.149	2035.240	2756.853
#3	2452.619	30197.58	2886.978	2059.219	2769.943

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5037-20 Acquired: 12/16/2024 5:42:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKG7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0570947**	**.0467203**	**.3550746**	**-.054116**	**.0041236**	**43.67278**
Stddev	.0032425	.0023229	.0030376	.003658	.0007987	.13921
%RSD	5.679245	4.972009	.8554958	6.759081	19.36782	.3187605
#1	.0605260	.0492522	.3526075	-.057395	.0046637	43.58262
#2	.0540814	.0446873	.3584674	-.054781	.0032062	43.83312
#3	.0566767	.0462215	.3541489	-.050171	.0045009	43.60262

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2795198**	**.0037559**	**.0047220**	F **1206.893**	**.0721570**	**.1394542**
Stddev	.0013419	.0000822	.0000462	4.139	.0005778	.0004829
%RSD	.4800837	2.188787	.9790981	.3429300	.8006832	.3462917
#1	.2788320	.0037547	.0046695	1204.856	.0728028	.1389274
#2	.2810661	.0038387	.0047564	1211.655	.0719792	.1395593
#3	.2786612	.0036743	.0047402	1204.167	.0716891	.1398759

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3892821**	**123.5964**	**10.02200**	**153.1172**	**.1609188**	**-.010461**
Stddev	.0144661	.6055	.03578	.5777	.0006003	.000744
%RSD	3.716107	.4898667	.3570035	.3773015	.3730456	7.113977
#1	.4011157	123.2276	10.00509	152.5991	.1604932	-.009689
#2	.3935753	124.2951	10.06310	153.7402	.1616054	-.011174
#3	.3731553	123.2664	9.99781	153.0122	.1606578	-.010520

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2940732**	**.0887700**	**.4166552**	**8.811893**	F **10.42072**	**-.017561**
Stddev	.5665504	.0059886	.0012441	.058758	.01315	.001576
%RSD	192.6562	6.746216	.2985980	.6667993	.1262162	8.975591
#1	.2363825	.0907497	.4160873	8.745798	10.42977	-.019250
#2	-.241425	.0935180	.4157964	8.831673	10.40564	-.017304
#3	.887262	.0820421	.4180819	8.858208	10.42676	-.016129

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5037-20 Acquired: 12/16/2024 5:42:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKG7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001460**	**1.499950**	**7.692394**	**.0241996**	**.8854243**	**.8866520**
Stddev	.000543	.006297	.020962	.0013314	.0096756	.0033720
%RSD	37.21061	.4198231	.2725038	5.501619	1.092766	.3803065
#1	-.001751	1.507212	7.709718	.0227340	.8818225	.8861534
#2	-.000833	1.496637	7.698371	.0253343	.8963842	.8902456
#3	-.001795	1.496001	7.669092	.0245306	.8780662	.8835571

Elem	Li6707
Units	ppm
Avg	**.1940143**
Stddev	.0048930
%RSD	2.521951
#1	.1995632
#2	.1903190
#3	.1921606

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2448.691**	**30151.96**	**2946.006**	**2051.025**	**2582.447**
Stddev	8.107	130.11	22.077	2.961	8.222
%RSD	.3310545	.4315072	.7493722	.1443664	.3183782
#1	2446.134	30099.25	2927.839	2052.483	2579.148
#2	2442.172	30056.48	2939.604	2047.618	2576.386
#3	2457.768	30300.15	2970.576	2052.975	2591.805

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5033-01 Acquired: 12/16/2024 5:46:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK93 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0919194	.0396422	1.119126	-.038400	.0137160	59.26600	1.301406
Stddev	.0037340	.0030308	.009727	.006748	.0020082	.11923	.002972
%RSD	4.062259	7.645514	.8691455	17.57241	14.64155	.2011722	.2283878
#1	.0960238	.0413656	1.122215	-.044082	.0131421	59.39599	1.304804
#2	.0910108	.0414182	1.126933	-.040176	.0159488	59.16174	1.300126
#3	.0887235	.0361426	1.108230	-.030942	.0120573	59.24026	1.299288

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052882	.0095771	524.5803	.1051632	.1339165	.3081585	137.8066
Stddev	.0001009	.0000483	1.5362	.0005068	.0005284	.0044184	.1212
%RSD	1.907249	.5046137	.2928496	.4819608	.3946041	1.433804	.0879340
#1	.0052287	.0096180	526.3457	.1057415	.1340363	.3030646	137.7130
#2	.0052312	.0095894	523.8470	.1049515	.1343748	.3109524	137.7635
#3	.0054047	.0095238	523.5481	.1047965	.1333385	.3104586	137.9435

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.48167	62.87607	.1580314	-.007191	-.423250	.1356944	.9425274
Stddev	.02217	.24780	.0014413	.000843	.217716	.0096375	.0108596
%RSD	.2114828	.3941043	.9120491	11.71641	51.43902	7.102329	1.152183
#1	10.49795	63.05103	.1596927	-.007433	-.508586	.1380944	.9541515
#2	10.45642	62.59252	.1572876	-.007885	-.585371	.1250837	.9407885
#3	10.49064	62.98466	.1571139	-.006254	-.175793	.1439050	.9326421

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.600609	9.345435	-.029320	.0010208	2.672803	7.937341	.0639135
Stddev	.090741	.055769	.002387	.0003835	.016421	.053351	.0013903
%RSD	1.620190	.5967463	8.142219	37.57169	.6143626	.6721466	2.175241
#1	5.656586	9.363677	-.032076	.0011339	2.679389	7.946192	.0652488
#2	5.649327	9.389798	-.027950	.0013350	2.684908	7.880118	.0640175
#3	5.495915	9.282830	-.027933	.0005934	2.654112	7.985712	.0624741

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5033-01 Acquired: 12/16/2024 5:46:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK93 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6978745	.3379248	.1503347
Stddev	.0053175	.0006071	.0030391
%RSD	.7619633	.1796547	2.021569
#1	.7000967	.3381647	.1538389
#2	.7017205	.3372344	.1484183
#3	.6918064	.3383753	.1487470

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2491.865	30751.40	2939.250	2093.963	2769.946
Stddev	13.301	62.54	12.437	2.388	21.059
%RSD	.5337667	.2033624	.4231284	.1140377	.7602815
#1	2493.328	30744.06	2936.281	2091.217	2771.228
#2	2477.892	30692.86	2952.902	2095.113	2748.275
#3	2504.373	30817.29	2928.566	2095.558	2790.335

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5033-02 Acquired: 12/16/2024 5:50:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK94 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0517843**	**.0315645**	**.4786789**	**-.049640**	**.0052296**	**47.51207**	**.8037459**
Stddev	.0020253	.0017510	.0036028	.004878	.0005348	.40933	.0051765
%RSD	3.911044	5.547262	.7526634	9.826458	10.22640	.8615204	.6440461
#1	.0497045	.0335478	.4746948	-.052754	.0052666	47.97707	.8097029
#2	.0518983	.0302329	.4796337	-.044018	.0057449	47.35289	.8011934
#3	.0537503	.0309127	.4817082	-.052147	.0046773	47.20623	.8003414

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0042524**	**.0045273**	**792.9125**	**.0832329**	**.1153724**	**.1631865**	**112.6469**
Stddev	.0000480	.0000319	7.3852	.0011217	.0008367	.0022458	1.2802
%RSD	1.129432	.7054252	.9313968	1.347608	.7252465	1.376236	1.136439
#1	.0042147	.0045219	801.3747	.0819740	.1144929	.1648453	114.1079
#2	.0042360	.0044984	789.5943	.0841261	.1154655	.1606308	112.1107
#3	.0043065	.0045616	787.7684	.0835985	.1161586	.1640835	111.7220

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.324348**	**103.0351**	**.1383995**	**-.009481**	**-.287687**	**.1068113**	**.5100075**
Stddev	.054633	1.0213	.0004525	.000796	.082709	.0095024	.0118200
%RSD	1.026098	.9912205	.3269558	8.391052	28.74975	8.896407	2.317612
#1	5.387107	104.2122	.1384448	-.009444	-.249425	.1177425	.5223026
#2	5.298506	102.5096	.1388277	-.010295	-.382599	.1021687	.5089919
#3	5.287429	102.3836	.1379261	-.008705	-.231036	.1005227	.4987282

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.946753**	**7.441075**	**-.025186**	**-.002189**	**2.026939**	**7.117284**	**.0301936**
Stddev	.178373	.036948	.002197	.000175	.013938	.057889	.0017482
%RSD	4.519500	.4965385	8.724170	8.005266	.6876336	.8133601	5.789825
#1	4.122289	7.407139	-.023827	-.002289	2.010936	7.177376	.0298570
#2	3.952298	7.435651	-.024010	-.002290	2.033458	7.061883	.0286382
#3	3.765671	7.480435	-.027721	-.001986	2.036422	7.112593	.0320855

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5033-02 Acquired: 12/16/2024 5:50:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK94 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6574758	.4994787	.1713514
Stddev	.0086445	.0051687	.0013484
%RSD	1.314807	1.034808	.7869190
#1	.6663626	.5053203	.1698497
#2	.6569690	.4976169	.1717463
#3	.6490959	.4954989	.1724583

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2445.201	30268.19	2872.478	2061.360	2723.557
Stddev	5.375	20.04	33.549	3.130	1.210
%RSD	.2197991	.0661930	1.167931	.1518609	.0444209
#1	2439.102	30267.76	2835.736	2060.377	2722.662
#2	2447.254	30248.38	2901.480	2058.840	2724.933
#3	2449.246	30288.44	2880.219	2064.864	2723.075

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5033-03 Acquired: 12/16/2024 5:54:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK95 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0537327**	**.0294375**	**.4997066**	**-.051116**	**.0095320**	**57.67656**	**.9208363**
Stddev	.0045903	.0025730	.0026147	.002016	.0008432	.05291	.0002789
%RSD	8.542840	8.740472	.5232529	3.943444	8.846281	.0917281	.0302926
#1	.0487707	.0306698	.4985366	-.052776	.0095681	57.64451	.9210512
#2	.0545997	.0311625	.4978813	-.048873	.0103567	57.64755	.9209365
#3	.0578276	.0264801	.5027020	-.051699	.0086714	57.73763	.9205211

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0048458**	**.0042312**	**756.4955**	**.1147147**	**.1381440**	**.1798018**	**131.9586**
Stddev	.0001630	.0000845	.9119	.0003425	.0003072	.0090902	.3564
%RSD	3.363175	1.998384	.1205473	.2985230	.2224024	5.055660	.2701125
#1	.0050216	.0042646	755.5492	.1144316	.1377984	.1722394	131.5745
#2	.0046997	.0041350	756.5685	.1150954	.1383862	.1898869	132.2787
#3	.0048162	.0042939	757.3686	.1146172	.1382475	.1772792	132.0226

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.053769**	**121.1117**	**.1747590**	**-.010469**	**.0645624**	**.1210491**	**.5255912**
Stddev	.005224	.2030	.0011648	.000286	.5448162	.0051061	.0083094
%RSD	.1033623	.1676262	.6665226	2.728627	843.8596	4.218240	1.580962
#1	5.049102	120.8943	.1756065	-.010653	.1463600	.1166929	.5321274
#2	5.059412	121.2963	.1734307	-.010140	.5638548	.1197861	.5162400
#3	5.052794	121.1446	.1752397	-.010614	-.516528	.1266682	.5284062

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.724184**	**8.229814**	**-.024433**	**-.001236**	**2.278284**	**7.093283**	**.0322891**
Stddev	.171845	.020056	.001809	.000288	.002134	.044181	.0020398
%RSD	3.637551	.2436943	7.402110	23.29198	.0936793	.6228620	6.317331
#1	4.681699	8.237217	-.025687	-.000999	2.279964	7.135883	.0337809
#2	4.913286	8.207109	-.025251	-.001556	2.275882	7.096292	.0299647
#3	4.577567	8.245116	-.022360	-.001153	2.279006	7.047674	.0331218

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5033-03 Acquired: 12/16/2024 5:54:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK95 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7559808	.5571306	.1932203
Stddev	.0026166	.0015188	.0090218
%RSD	.3461140	.2726128	4.669199
#1	.7529936	.5556151	.1828325
#2	.7570827	.5586527	.1990951
#3	.7578663	.5571241	.1977334

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2434.470	29942.61	2907.655	2028.034	2675.028
Stddev	7.089	148.71	11.743	3.587	7.881
%RSD	.2911798	.4966567	.4038594	.1768913	.2946107
#1	2426.293	29846.82	2895.018	2025.997	2665.930
#2	2438.242	30113.93	2909.716	2032.176	2679.733
#3	2438.875	29867.08	2918.231	2025.929	2679.421

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5033-04 Acquired: 12/16/2024 5:58:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK96 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0461439**	**.0309888**	**.1697549**	**-.055724**	**.0120618**	**49.60256**
Stddev	.0024524	.0062524	.0038944	.009306	.0030201	1.91635
%RSD	5.314651	20.17627	2.294152	16.70095	25.03842	3.863418
#1	.0455439	.0238930	.1674255	-.053748	.0120291	49.65081
#2	.0488406	.0333834	.1742508	-.047565	.0150980	51.49434
#3	.0440472	.0356900	.1675883	-.065860	.0090581	47.66254

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7599503**	**.0043536**	**.0032447**	F **959.6763**	**.0814044**	**.1481239**
Stddev	.0286598	.0000168	.0001042	36.8848	.0011629	.0021812
%RSD	3.771269	.3850660	3.211330	3.843467	1.428574	1.472521
#1	.7601461	.0043355	.0031965	959.8279	.0816362	.1457085
#2	.7885117	.0043567	.0031733	996.4851	.0801430	.1487139
#3	.7311931	.0043685	.0033642	922.7159	.0824339	.1499494

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1787051**	**131.3003**	**5.904936**	**153.6196**	**.1823375**	**-.012349**
Stddev	.0020386	5.0026	.225808	5.8542	.0012938	.001528
%RSD	1.140735	3.810008	3.824056	3.810835	.7095508	12.37012
#1	.1787970	131.2647	5.904345	153.4732	.1808522	-.010688
#2	.1806961	136.3206	6.131039	159.5457	.1832194	-.012664
#3	.1766221	126.3157	5.679424	147.8400	.1829409	-.013694

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.081964**	**.1083907**	**.4084047**	**6.773091**	**5.719504**	**-.014604**
Stddev	.452033	.0052805	.0068056	.469666	.076373	.001614
%RSD	551.5005	4.871704	1.666383	6.934292	1.335303	11.05232
#1	-.454455	.1085990	.4152316	6.865997	5.676231	-.014814
#2	.420939	.1135641	.4083619	7.189360	5.674594	-.012895
#3	-.212377	.1030093	.4016206	6.263915	5.807687	-.016103

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5033-04 Acquired: 12/16/2024 5:58:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK96 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001750**	**1.792425**	**7.344525**	**.0183737**	**.6598905**	**.7452000**
Stddev	.000025	.025886	.254459	.0022338	.0240817	.0286570
%RSD	1.409101	1.444183	3.464608	12.15738	3.649341	3.845541
#1	-.001730	1.779778	7.278900	.0166412	.6626764	.7438517
#2	-.001744	1.775294	7.625368	.0208948	.6824581	.7745074
#3	-.001778	1.822203	7.129306	.0175852	.6345371	.7172410

Elem	Li6707
Units	ppm
Avg	**.2031413**
Stddev	.0083574
%RSD	4.114090
#1	.1951111
#2	.2117914
#3	.2025215

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2399.190**	**29558.09**	**2879.296**	**2010.303**	**2624.235**
Stddev	12.879	177.81	95.802	12.884	17.825
%RSD	.5368083	.6015561	3.327275	.6408849	.6792374
#1	2410.094	29373.05	2886.010	1996.558	2640.161
#2	2402.496	29573.58	2780.314	2012.248	2627.563
#3	2384.981	29727.66	2971.565	2022.104	2604.981

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5033-05 Acquired: 12/16/2024 6:02:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK97 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0820666	.0246354	3.128954	-.033095	.0154360	57.89456
Stddev	.0045251	.0034787	.015054	.004523	.0007094	.14066
%RSD	5.513960	14.12094	.4811217	13.66647	4.595850	.2429599
#1	.0868011	.0240563	3.131568	-.029007	.0161715	58.05620
#2	.0816138	.0283673	3.112764	-.032325	.0147559	57.82745
#3	.0777849	.0214825	3.142529	-.037954	.0153805	57.80002

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.563093	.0056212	.0086564	262.5174	.1275757	.1150012
Stddev	.002178	.0001649	.0000129	.6935	.0007746	.0007204
%RSD	.1393396	2.933712	.1488385	.2641849	.6071576	.6264508
#1	1.564880	.0057557	.0086539	263.2049	.1284408	.1144009
#2	1.563731	.0054372	.0086704	262.5294	.1273397	.1148026
#3	1.560667	.0056707	.0086450	261.8180	.1269465	.1158001

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2904067	132.9551	8.409038	52.79669	.1881231	-.008868
Stddev	.0028970	.6205	.026624	.25875	.0000292	.000326
%RSD	.9975810	.4666975	.3166060	.4900947	.0155411	3.672167
#1	.2884741	133.6409	8.436168	53.06867	.1881063	-.009158
#2	.2890084	132.7921	8.407992	52.76782	.1881568	-.008932
#3	.2937377	132.4324	8.382952	52.55359	.1881061	-.008516

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4766564	.1289062	1.866187	8.589424	F 10.13267	.0016352
Stddev	.8696908	.0044106	.017938	.070976	.02708	.0007681
%RSD	182.4566	3.421542	.9612234	.8263197	.2672938	46.97039
#1	1.187973	.1249001	1.863535	8.669281	10.13899	.0019030
#2	-.492910	.1281859	1.885303	8.565455	10.10298	.0007691
#3	.734906	.1336325	1.849722	8.533536	10.15603	.0022336

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5033-05 Acquired: 12/16/2024 6:02:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK97 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022255	5.167855	8.657399	.1003025	.8399722	.1905082
Stddev	.0004166	.006950	.104736	.0014652	.0011697	.0008136
%RSD	18.71737	.1344882	1.209784	1.460809	.1392505	.4270875
#1	.0024573	5.166840	8.754489	.1017110	.8409297	.1914451
#2	.0017446	5.161469	8.546406	.0987865	.8403185	.1899800
#3	.0024747	5.175257	8.671302	.1004101	.8386686	.1900994

Elem	Li6707
Units	ppm
Avg	.1307171
Stddev	.0090050
%RSD	6.888911
#1	.1403566
#2	.1292737
#3	.1225210

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2534.214	31048.33	2966.979	2126.548	2927.469
Stddev	6.572	133.85	27.239	8.625	4.534
%RSD	.2593363	.4310948	.9180603	.4056096	.1548773
#1	2539.841	31122.63	2935.527	2130.033	2928.683
#2	2535.810	30893.81	2982.726	2116.725	2931.273
#3	2526.991	31128.55	2982.685	2132.885	2922.452

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5033-06 Acquired: 12/16/2024 6:05:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK97D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0841739**	**.0288870**	**3.106960**	**-.032052**	**.0173807**	**57.46805**
Stddev	.0031638	.0026465	.015817	.009731	.0009669	.86339
%RSD	3.758701	9.161494	.5090851	30.36040	5.562769	1.502390
#1	.0873824	.0279922	3.124841	-.037297	.0165161	57.44437
#2	.0810567	.0318649	3.101239	-.020824	.0172012	56.61674
#3	.0840825	.0268039	3.094799	-.038037	.0184247	58.34304

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.556349**	**.0056683**	**.0087364**	**261.9240**	**.1263577**	**.1138135**
Stddev	.024659	.0001587	.0000766	3.9157	.0007097	.0013631
%RSD	1.584444	2.799315	.8764677	1.494964	.5616391	1.197700
#1	1.558978	.0054854	.0088134	262.4823	.1266439	.1146680
#2	1.530480	.0057507	.0087355	257.7591	.1268796	.1145311
#3	1.579588	.0057688	.0086602	265.5305	.1255496	.1122415

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2898792**	**132.0829**	**8.369079**	**52.33413**	**.1872330**	**-.009295**
Stddev	.0041115	2.1874	.134831	.72131	.0012264	.001048
%RSD	1.418358	1.656058	1.611064	1.378279	.6550179	11.27833
#1	.2862070	132.3712	8.382917	52.39035	.1886310	-.010193
#2	.2891094	129.7657	8.227863	51.58636	.1867293	-.009550
#3	.2943212	134.1118	8.496458	53.02569	.1863386	-.008143

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.251297**	**.1283843**	**1.888399**	**8.565884**	F **10.05686**	**-.001180**
Stddev	.525209	.0023888	.031518	.177441	.05210	.005669
%RSD	208.9997	1.860638	1.669057	2.071485	.5180603	480.6084
#1	.334131	.1303748	1.924113	8.556850	10.11179	.005260
#2	-.681125	.1290427	1.864476	8.393133	10.05061	-.003381
#3	-.406896	.1257353	1.876608	8.747670	10.00816	-.005418

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5033-06 Acquired: 12/16/2024 6:05:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK97D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022626	5.133467	8.623082	.0981917	.8388544	.1895007
Stddev	.0003684	.020826	.157836	.0017777	.0143079	.0032453
%RSD	16.28275	.4057001	1.830389	1.810394	1.705650	1.712571
#1	.0026666	5.157507	8.500607	.0973694	.8400226	.1899254
#2	.0019452	5.121994	8.567435	.0969740	.8239983	.1860639
#3	.0021759	5.120901	8.801204	.1002316	.8525425	.1925127

Elem	Li6707
Units	ppm
Avg	.1364293
Stddev	.0030289
%RSD	2.220155
#1	.1381436
#2	.1329320
#3	.1382122

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2557.462	31066.73	2989.452	2125.404	2956.772
Stddev	14.623	185.00	36.219	12.715	20.810
%RSD	.5717793	.5954951	1.211562	.5982505	.7038237
#1	2543.282	30966.47	3018.658	2115.513	2934.005
#2	2556.613	30953.50	3000.774	2120.952	2961.496
#3	2572.491	31280.22	2948.925	2139.747	2974.813

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5033-05LX5 Acquired: 12/16/2024 6:09:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK97L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0162267	.0129912	.6260269	-.022077	-.001521	12.54037	.3413494
Stddev	.0022603	.0018711	.0015843	.005473	.003084	.17580	.0029608
%RSD	13.92983	14.40311	.2530785	24.79131	202.7528	1.401868	.8673761
#1	.0185701	.0151514	.6267072	-.017839	.002023	12.45406	.3401043
#2	.0160502	.0118727	.6242160	-.028256	-.003592	12.42441	.3392144
#3	.0140597	.0119496	.6271575	-.020135	-.002995	12.74264	.3447293

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013235	.0017135	57.67642	.0280565	.0385052	.0587907	29.34783
Stddev	.0000810	.0000570	.55557	.0004554	.0001544	.0043102	.31291
%RSD	6.121819	3.329382	.9632574	1.623334	.4008724	7.331462	1.066223
#1	.0013357	.0017357	57.28380	.0282163	.0385029	.0559460	29.24375
#2	.0012371	.0016487	57.43336	.0275427	.0383521	.0637498	29.10022
#3	.0013978	.0017561	58.31210	.0284106	.0386608	.0566762	29.69952

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.851757	11.72948	.0361759	-.001938	-.197743	.0216955	.3858145
Stddev	.020232	.11022	.0003546	.000520	.271264	.0043048	.0156792
%RSD	1.092574	.9396616	.9802823	26.80877	137.1803	19.84175	4.063912
#1	1.842942	11.68891	.0357685	-.002445	-.504043	.0256675	.3853991
#2	1.837429	11.64530	.0364155	-.001962	-.101337	.0171214	.3703472
#3	1.874901	11.85423	.0363438	-.001407	.012150	.0222977	.4016973

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6894251	1.957281	-.006916	-.000959	.9837460	1.974511	.0189098
Stddev	.0485476	.000861	.000434	.000090	.0043117	.021569	.0008395
%RSD	7.041745	.0439828	6.268438	9.431356	.4382891	1.092365	4.439736
#1	.6578224	1.956375	-.006842	-.001058	.9801139	1.949656	.0180577
#2	.6651288	1.958088	-.006524	-.000940	.9826130	1.988312	.0189355
#3	.7453240	1.957381	-.007381	-.000880	.9885110	1.985565	.0197362

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5033-05LX5 Acquired: 12/16/2024 6:09:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK97L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1800783	.0412763	.0462649
Stddev	.0059706	.0006959	.0075990
%RSD	3.315579	1.686087	16.42501
#1	.1732165	.0408682	.0407724
#2	.1840880	.0408807	.0430849
#3	.1829305	.0420798	.0549373

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2408.277	29684.87	2724.400	2031.592	3160.293
Stddev	6.925	259.24	27.545	25.225	8.096
%RSD	.2875685	.8733024	1.011039	1.241637	.2561670
#1	2416.230	29493.98	2753.084	2013.804	3169.580
#2	2403.580	29980.00	2721.960	2060.460	3154.727
#3	2405.020	29580.63	2698.157	2020.510	3156.572

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5033-07 Acquired: 12/16/2024 6:13:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK97S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1695245**	**.1260526**	**3.160986**	**.1348013**	**.1790349**	**61.26815**
Stddev	.0020741	.0019788	.010027	.0025161	.0012297	.83932
%RSD	1.223493	1.569835	.3172190	1.866498	.6868510	1.369908
#1	.1718155	.1283273	3.162239	.1319601	.1787627	61.61144
#2	.1689836	.1251023	3.150391	.1356966	.1803779	60.31160
#3	.1677744	.1247281	3.170328	.1367473	.1779641	61.88139

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.326939**	**.0974846**	**.1075656**	**261.8325**	**.5296114**	**1.260855**
Stddev	.075384	.0012325	.0006485	3.6222	.0013928	.003449
%RSD	1.415141	1.264255	.6028714	1.383399	.2629906	.2735668
#1	5.357112	.0971396	.1073443	263.2612	.5296772	1.259288
#2	5.241143	.0964613	.1070568	257.7139	.5309702	1.258467
#3	5.382563	.0988527	.1082958	264.5225	.5281869	1.264809

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7478521**	**134.6171**	**9.306257**	**52.47338**	**1.253495**	**.0643473**
Stddev	.0128148	2.1784	.128582	.66366	.003545	.0007458
%RSD	1.713541	1.618222	1.381672	1.264756	.2827877	1.159027
#1	.7531870	135.4329	9.349680	52.47845	1.254457	.0642410
#2	.7332317	132.1486	9.161585	51.80720	1.249569	.0636603
#3	.7571375	136.2700	9.407505	53.13450	1.256460	.0651405

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3765978**	**1.063684**	**2.646382**	**8.731715**	F **10.11625**	**-.006475**
Stddev	.9680340	.016324	.016420	.209459	.03167	.000301
%RSD	257.0471	1.534657	.6204530	2.398836	.3131056	4.649610
#1	.4923749	1.057242	2.650552	8.800652	10.10698	-.006575
#2	-.644118	1.051564	2.660315	8.496475	10.09024	-.006715
#3	1.281537	1.082246	2.628280	8.898018	10.15152	-.006137

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5033-07 Acquired: 12/16/2024 6:13:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK97S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023474	5.189855	8.742660	.1006284	.8380886	.1891659
Stddev	.0005050	.010071	.107533	.0013640	.0127620	.0025808
%RSD	21.51112	.1940523	1.229977	1.355475	1.522746	1.364311
#1	.0020065	5.190120	8.730660	.0990715	.8337468	.1900488
#2	.0021082	5.179654	8.641631	.1016129	.8280641	.1862596
#3	.0029276	5.199791	8.855689	.1012009	.8524550	.1911895

Elem	Li6707
Units	ppm
Avg	.1280950
Stddev	.0021950
%RSD	1.713562
#1	.1306096
#2	.1271131
#3	.1265624

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2524.200	31024.29	2952.197	2113.728	2925.409
Stddev	5.260	104.55	26.043	10.329	5.092
%RSD	.2083751	.3369833	.8821509	.4886620	.1740775
#1	2529.450	31075.93	2958.152	2120.683	2922.977
#2	2524.221	30903.97	2974.747	2101.860	2931.262
#3	2518.930	31092.97	2923.693	2118.643	2921.989

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: CCV037 Acquired: 12/16/2024 6:24:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV037 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.736905**	**4.698136**	**23.28461**	**4.789453**	**4.757163**	**390.1955**
Stddev	.023756	.019944	.04591	.009142	.018072	.3695
%RSD	.5014998	.4245068	.1971529	.1908826	.3798945	.0946988
#1	4.722914	4.712905	23.33368	4.796041	4.777410	390.4559
#2	4.723468	4.706053	23.24271	4.779015	4.742662	389.7726
#3	4.764334	4.675449	23.27744	4.793302	4.751419	390.3579

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.592210**	**.5005651**	**2.525709**	**403.0623**	**14.87983**	**2.653490**
Stddev	.014273	.0020575	.005715	.4498	.12955	.003897
%RSD	.1487974	.4110355	.2262631	.1115993	.8706653	.1468531
#1	9.603505	.5028235	2.532184	403.1349	14.77625	2.657897
#2	9.596958	.5000747	2.521371	402.5806	14.83814	2.650502
#3	9.576169	.4987971	2.523571	403.4715	15.02510	2.652070

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.40566**	**394.4916**	**14.06254**	**400.0162**	**2.434404**	**1.208376**
Stddev	.04389	.2532	.02775	.7603	.005464	.008260
%RSD	.3046953	.0641796	.1973429	.1900759	.2244666	.6835690
#1	14.40479	394.7583	14.07014	400.8284	2.440712	1.203063
#2	14.44998	394.4619	14.08570	399.8989	2.431357	1.204173
#3	14.36220	394.2545	14.03178	399.3214	2.431143	1.217892

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**404.9385**	**2.491887**	**14.53960**	**162.8259**	**4.667104**	**4.689873**
Stddev	1.0088	.014884	.19444	.1470	.008447	.049014
%RSD	.2491172	.5972954	1.337279	.0902634	.1809934	1.045106
#1	406.0892	2.493586	14.35541	162.9895	4.672520	4.746169
#2	404.5193	2.505849	14.52051	162.7049	4.657370	4.666778
#3	404.2069	2.476227	14.74288	162.7834	4.671421	4.656674

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: CCV037 Acquired: 12/16/2024 6:24:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV037 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 4.453825	4.787317	4.652701	4.681682	4.649155	F 4.484284
Stddev	.007837	.018631	.029400	.009210	.011862	.009686
%RSD	.1759609	.3891729	.6318853	.1967186	.2551525	.2159925
#1	4.462462	4.808286	4.686454	4.689393	4.653142	4.494116
#2	4.447168	4.772667	4.638971	4.671484	4.658510	4.483985
#3	4.451846	4.780998	4.632678	4.684168	4.635813	4.474752

Elem	Li6707
Units	ppm
Avg	5.062459
Stddev	.027141
%RSD	.5361260
#1	5.052454
#2	5.093183
#3	5.041742

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1927.901	25474.49	2506.950	1615.004	2510.786
Stddev	7.137	278.30	6.305	20.669	9.226
%RSD	.3701828	1.092454	.2515090	1.279797	.3674364
#1	1920.733	25761.14	2508.453	1636.145	2502.845
#2	1927.963	25456.98	2500.029	1614.026	2508.608
#3	1935.006	25205.37	2512.368	1594.842	2520.906

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: CCB037 Acquired: 12/16/2024 6:27:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB037 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000621**	**-.000972**	**.0035844**	**-.003921**	**.0009829**	**-.018666**
Stddev	.003187	.001768	.0006833	.003461	.0025611	.010567
%RSD	513.0854	181.8485	19.06411	88.26921	260.5727	56.61222
#1	-.003959	-.001206	.0038953	-.001942	.0008531	-.026655
#2	-.000293	-.002611	.0028009	-.007918	.0036065	-.006684
#3	.002389	.000901	.0040570	-.001904	-.001511	-.022660

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000144**	**-.000036**	**.0000924**	**-.013379**	**.0006418**	**-.000145**
Stddev	.000730	.000084	.0000906	.028636	.0004565	.000243
%RSD	506.4118	236.2659	98.11126	214.0417	71.12214	167.2751
#1	-.000947	-.000060	.0000534	-.046005	.0005688	-.000276
#2	.000481	-.000105	.0001959	.007593	.0011304	.000135
#3	.000033	.000058	.0000277	-.001725	.0002263	-.000295

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.012855**	**.0032259**	**.0030713**	**.0464447**	**.0001399**	**-.000357**
Stddev	.003887	.0303405	.0018102	.0164334	.0001445	.000820
%RSD	30.24011	940.5147	58.93853	35.38285	103.2810	229.4894
#1	-.010227	.0382159	.0048691	.0511946	.0000549	-.001119
#2	-.017320	-.012745	.0012490	.0599800	.0003069	-.000464
#3	-.011017	-.015793	.0030958	.0281594	.0000581	.000511

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-1.14606**	**-.007574**	**-.004518**	**-1.32473**	**.0027996**	**.0123132**
Stddev	.58929	.005205	.006454	.16568	.0014086	.0018163
%RSD	51.41886	68.72324	142.8559	12.50692	50.31642	14.75082
#1	-.48461	-.012481	-.006219	-1.38309	.0011743	.0104396
#2	-1.61510	-.002114	.002616	-1.45333	.0036691	.0140662
#3	-1.33848	-.008128	-.009951	-1.13776	.0035552	.0124339

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: CCB037 Acquired: 12/16/2024 6:27:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB037 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005703**	**-.010728**	**.0019691**	**.0012963**	**-.002086**	**.0000620**
Stddev	.0001500	.002894	.0007189	.0011023	.002208	.0000569
%RSD	26.30723	26.97564	36.50782	85.03266	105.8459	91.81497
#1	.0007110	-.012480	.0012065	.0023893	-.004572	.0001210
#2	.0005873	-.007388	.0020665	.0013148	-.000353	.0000075
#3	.0004125	-.012317	.0026342	.0001849	-.001333	.0000573

Elem	Li6707
Units	ppm
Avg	F **.0402024**
Stddev	.0020335
%RSD	5.058263
#1	.0422979
#2	.0400723
#3	.0382371

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2420.162**	**28853.15**	**2604.737**	**1966.508**	**3341.412**
Stddev	14.319	346.13	14.979	22.736	22.329
%RSD	.5916714	1.199644	.5750662	1.156138	.6682620
#1	2404.057	28810.27	2618.062	1960.540	3315.639
#2	2431.456	28530.46	2607.624	1947.351	3354.942
#3	2424.973	29218.73	2588.524	1991.632	3353.655

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5033-08 Acquired: 12/16/2024 6:31:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK98 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0980382**	**.0323024**	**2.776122**	**-.030356**	**.0151018**	**56.40167**
Stddev	.0011247	.0019241	.007562	.003826	.0034050	1.57759
%RSD	1.147171	5.956585	.2724008	12.60461	22.54686	2.797070
#1	.0993122	.0304470	2.779542	-.028770	.0190285	55.76115
#2	.0971831	.0342886	2.781371	-.027577	.0133108	55.24507
#3	.0976194	.0321716	2.767454	-.034720	.0129661	58.19878

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.628327**	**.0058189**	**.0100333**	**380.1853**	**.1539225**	**.1240242**
Stddev	.047122	.0001883	.0000072	10.6587	.0006455	.0003859
%RSD	2.893877	3.236677	.0712762	2.803563	.4193877	.3111292
#1	1.610192	.0056882	.0100254	376.3066	.1532921	.1237436
#2	1.592967	.0057338	.0100394	372.0090	.1545822	.1244642
#3	1.681822	.0060348	.0100352	392.2402	.1538932	.1238648

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3334024**	**144.7035**	**9.656718**	**63.86673**	**.2340735**	**-.009462**
Stddev	.0070682	3.6806	.261434	1.77683	.0012261	.000385
%RSD	2.120029	2.543548	2.707278	2.782096	.5238050	4.066086
#1	.3292633	143.0890	9.549327	63.30398	.2351543	-.009861
#2	.3293801	142.1061	9.466081	62.43942	.2343250	-.009093
#3	.3415638	148.9154	9.954746	65.85680	.2327412	-.009431

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2546152**	**.1360029**	**2.135603**	**7.054739**	F **10.76840**	**.0040734**
Stddev	.4307653	.0035529	.009764	.326743	.02470	.0036747
%RSD	169.1829	2.612397	.4571811	4.631537	.2293785	90.21112
#1	.6018243	.1332033	2.138129	6.969505	10.76452	.0063842
#2	.3894635	.1348056	2.124824	6.779060	10.79482	.0060000
#3	-.227442	.1399999	2.143855	7.415652	10.74588	-.000164

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5033-08 Acquired: 12/16/2024 6:31:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK98 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019847	4.301533	7.332679	.0875242	.7974668	.2647448
Stddev	.0002821	.018865	.221434	.0017859	.0261269	.0070034
%RSD	14.21305	.4385672	3.019821	2.040431	3.276231	2.645341
#1	.0023056	4.313433	7.236446	.0855628	.7897032	.2618198
#2	.0018723	4.311385	7.175644	.0890562	.7761016	.2596781
#3	.0017761	4.279782	7.585948	.0879536	.8265955	.2727366

Elem	Li6707
Units	ppm
Avg	.1471975
Stddev	.0092188
%RSD	6.262894
#1	.1431718
#2	.1406761
#3	.1577445

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2596.740	31859.90	2979.631	2176.613	2916.551
Stddev	8.253	203.00	76.149	9.776	8.408
%RSD	.3178223	.6371510	2.555642	.4491512	.2882930
#1	2588.805	31634.06	2996.642	2166.018	2909.420
#2	2596.137	31918.45	3045.836	2178.538	2914.409
#3	2605.278	32027.18	2896.416	2185.284	2925.823

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5033-09 Acquired: 12/16/2024 6:35:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK99 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0905807	.0373393	1.193559	-.039523	.0137438	51.56185
Stddev	.0056271	.0041314	.002727	.001780	.0016278	.08136
%RSD	6.212298	11.06443	.2284797	4.503796	11.84422	.1577928
#1	.0934924	.0336410	1.192504	-.037468	.0129519	51.50657
#2	.0840943	.0365789	1.191517	-.040595	.0126634	51.65528
#3	.0941553	.0417981	1.196656	-.040505	.0156161	51.52371

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8908652	.0050155	.0066926	719.5336	.0982241	.1374985
Stddev	.0009984	.0000280	.0001034	1.1298	.0029428	.0006010
%RSD	.1120735	.5583182	1.545670	.1570160	2.996020	.4370722
#1	.8897958	.0049873	.0067413	719.8249	.0959609	.1377204
#2	.8910269	.0050159	.0065738	720.4892	.1015509	.1379570
#3	.8917729	.0050433	.0067626	718.2866	.0971606	.1368182

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2950050	130.3691	7.831575	125.5383	.1877824	-.012104
Stddev	.0089884	.2738	.018162	.2928	.0007472	.000887
%RSD	3.046848	.2100507	.2319088	.2332059	.3979008	7.329507
#1	.2846955	130.1897	7.817123	125.4131	.1884772	-.012157
#2	.2991227	130.6843	7.851962	125.8729	.1878780	-.012963
#3	.3011969	130.2333	7.825638	125.3290	.1869920	-.011191

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6098465	.1057056	1.036446	6.509921	F 21.07058	.0091719
Stddev	.3186490	.0014132	.026523	.013276	.00463	.0005968
%RSD	52.25068	1.336943	2.559054	.2039273	.0219631	6.507116
#1	.9644563	.1046421	1.005822	6.495566	21.06863	.0097292
#2	.5175483	.1073092	1.051411	6.512442	21.07587	.0085422
#3	.3475350	.1051656	1.052104	6.521755	21.06725	.0092444

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5033-09 Acquired: 12/16/2024 6:35:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK99 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000262	3.617352	5.641898	.0498135	.6684932	.5944821
Stddev	.000717	.007292	.055171	.0010969	.0027819	.0006911
%RSD	273.8239	.2015859	.9778834	2.202012	.4161491	.1162600
#1	.000451	3.608932	5.669110	.0506711	.6678601	.5949062
#2	-.000983	3.621570	5.678178	.0485775	.6715371	.5936845
#3	-.000253	3.621555	5.578408	.0501921	.6660824	.5948554

Elem	Li6707
Units	ppm
Avg	.1735961
Stddev	.0062218
%RSD	3.584092
#1	.1801484
#2	.1677681
#3	.1728718

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2647.673	32411.41	3148.005	2206.085	2683.217
Stddev	4.225	518.95	18.220	32.175	4.901
%RSD	.1595868	1.601129	.5787741	1.458468	.1826574
#1	2643.905	32881.27	3129.231	2234.417	2681.024
#2	2646.871	31854.40	3149.168	2171.105	2679.795
#3	2652.241	32498.55	3165.615	2212.732	2688.831

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5033-10 Acquired: 12/16/2024 6:39:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1019236	.0404163	1.457663	-.040793	.0160729	60.59062	1.366988
Stddev	.0031475	.0032124	.002094	.002510	.0022910	.25643	.006587
%RSD	3.088074	7.948250	.1436252	6.152967	14.25350	.4232183	.4818546
#1	.1055507	.0376375	1.457245	-.043621	.0164048	60.47568	1.363019
#2	.0999112	.0396777	1.455810	-.039929	.0136341	60.41177	1.363354
#3	.1003089	.0439336	1.459934	-.038829	.0181798	60.88441	1.374592

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0060065	.0082580	786.8693	.1118157	.1591131	.3397408	157.2927
Stddev	.0000279	.0001720	2.5282	.0022952	.0010253	.0118055	.5248
%RSD	.4644014	2.082272	.3212973	2.052693	.6443911	3.474852	.3336421
#1	.0060024	.0080630	785.5238	.1142563	.1598375	.3303584	156.7837
#2	.0060362	.0083230	785.2985	.1097005	.1595619	.3358676	157.2624
#3	.0059808	.0083879	789.7857	.1114904	.1579399	.3529963	157.8320

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.78525	99.76384	.2149277	-.012081	-.406851	.1241419	1.114990
Stddev	.04513	.28204	.0006677	.001677	.552739	.0066104	.019542
%RSD	.3829057	.2827089	.3106732	13.88369	135.8579	5.324841	1.752646
#1	11.76550	99.77108	.2151804	-.013627	-.600707	.1256660	1.137384
#2	11.75338	99.47826	.2154322	-.010298	.216704	.1298572	1.101393
#3	11.83689	100.0422	.2141705	-.012318	-.836550	.1169027	1.106194

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.69473	7.882737	-.003101	.0006474	3.056754	7.911010	.0722156
Stddev	.21992	.006974	.007136	.0004338	.006144	.097778	.0019353
%RSD	2.056336	.0884713	230.1163	66.99618	.2009946	1.235971	2.679938
#1	10.45748	7.888682	-.007366	.0003724	3.059327	8.000844	.0714447
#2	10.73495	7.875060	.005137	.0011475	3.049742	7.806866	.0707845
#3	10.89177	7.884469	-.007075	.0004225	3.061193	7.925319	.0744176

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5033-10 Acquired: 12/16/2024 6:39:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6889148	.6145746	.1999080
Stddev	.0058615	.0029719	.0033967
%RSD	.8508297	.4835747	1.699143
#1	.6935203	.6133316	.2038214
#2	.6823168	.6124260	.1981790
#3	.6909073	.6179662	.1977236

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2544.084	31220.10	3065.615	2134.296	2684.901
Stddev	6.675	655.67	25.274	46.951	8.941
%RSD	.2623902	2.100151	.8244404	2.199845	.3330115
#1	2536.434	30503.05	3056.184	2083.059	2674.657
#2	2548.723	31789.05	3094.249	2175.260	2688.913
#3	2547.096	31368.19	3046.412	2144.569	2691.133

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5033-11 Acquired: 12/16/2024 6:43:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0877324	.0383871	.6331568	-.042125	.0113732	52.50332
Stddev	.0002877	.0031801	.0014567	.005307	.0036284	.26159
%RSD	.3279459	8.284306	.2300746	12.59763	31.90315	.4982351
#1	.0880510	.0388952	.6328070	-.041596	.0091373	52.32286
#2	.0874914	.0349836	.6319067	-.047677	.0094226	52.38378
#3	.0876548	.0412826	.6347565	-.037103	.0155596	52.80332

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9051523	.0051796	.0060730	751.9205	.0851893	.1423661
Stddev	.0031264	.0001657	.0000225	2.6914	.0001733	.0005393
%RSD	.3454054	3.199705	.3699444	.3579369	.2034624	.3787848
#1	.9037542	.0051157	.0060479	751.0730	.0850299	.1421397
#2	.9029688	.0053678	.0060914	749.7549	.0853738	.1429817
#3	.9087338	.0050554	.0060796	754.9337	.0851642	.1419770

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2997441	133.5801	9.945470	126.7880	.1732389	-.009764
Stddev	.0007101	.5463	.053846	.6338	.0010806	.001101
%RSD	.2369168	.4089856	.5414110	.4998826	.6237842	11.27232
#1	.3002746	133.1542	9.906113	126.1875	.1736724	-.010228
#2	.3000204	133.3901	9.923463	126.7261	.1740355	-.008508
#3	.2989374	134.1961	10.00683	127.4505	.1720088	-.010557

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3739034	.1074544	.6348150	8.963709	F 16.80601	.0013963
Stddev	.3708172	.0042016	.0052175	.155665	.03341	.0020581
%RSD	99.17461	3.910085	.8218994	1.736619	.1988233	147.3952
#1	.8007932	.1074659	.6405303	9.090139	16.84439	.0013416
#2	.1316616	.1116502	.6336078	8.789845	16.78343	-.000634
#3	.1892554	.1032471	.6303068	9.011143	16.79019	.003481

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5033-11 Acquired: 12/16/2024 6:43:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001021	2.244086	7.993112	.0385730	.6097738	.6140471
Stddev	.000936	.004326	.018604	.0024335	.0088834	.0020372
%RSD	91.62187	.1927947	.2327479	6.308867	1.456834	.3317688
#1	-.000888	2.246450	7.977062	.0361146	.6038428	.6129566
#2	-.000160	2.239093	8.013502	.0386235	.6054913	.6127873
#3	-.002017	2.246716	7.988771	.0409809	.6199872	.6163975

Elem	Li6707
Units	ppm
Avg	.1800223
Stddev	.0021902
%RSD	1.216655
#1	.1775631
#2	.1807406
#3	.1817632

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2586.310	31731.82	3081.239	2163.001	2678.914
Stddev	11.099	57.66	6.159	12.725	7.567
%RSD	.4291379	.1817105	.1998833	.5882992	.2824836
#1	2574.472	31709.51	3087.572	2152.507	2670.299
#2	2587.975	31797.30	3080.876	2177.154	2681.958
#3	2596.482	31688.65	3075.270	2159.341	2684.487

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5033-12 Acquired: 12/16/2024 6:47:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1136829**	**.0409007**	**.6082595**	**-.038603**	**.0205660**	**72.33592**
Stddev	.0015456	.0041569	.0017516	.002219	.0039734	2.03608
%RSD	1.359585	10.16331	.2879647	5.748905	19.32032	2.814754
#1	.1124424	.0452193	.6097294	-.037929	.0164191	70.76299
#2	.1154144	.0369270	.6063214	-.036800	.0209394	74.63567
#3	.1131920	.0405558	.6087276	-.041082	.0243395	71.60910

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.025662**	**.0067279**	**.0069546**	F **899.2568**	**.1229508**	**.1633764**
Stddev	.028725	.0000574	.0003865	24.9603	.0091357	.0012311
%RSD	2.800637	.8525624	5.557996	2.775655	7.430405	.7535610
#1	1.003467	.0066629	.0069468	882.1071	.1250301	.1625420
#2	1.058106	.0067716	.0065720	927.8923	.1129547	.1627968
#3	1.015414	.0067491	.0073450	887.7709	.1308677	.1647903

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.313994**	**183.1725**	**11.58828**	**143.4912**	**.2203453**	**-.012106**
Stddev	.300334	5.2333	.34277	4.4531	.0022393	.001601
%RSD	3.224550	2.857048	2.957894	3.103401	1.016250	13.22310
#1	9.060237	178.9575	11.31660	140.2612	.2183576	-.012438
#2	9.645583	189.0300	11.97339	148.5711	.2199071	-.010366
#3	9.236164	181.5298	11.47486	141.6412	.2227713	-.013515

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6075200**	**.1424609**	**2.576578**	**15.13929**	**7.001086**	**-.008721**
Stddev	.4645041	.0068853	.073375	.73207	.064586	.009235
%RSD	76.45906	4.833106	2.847783	4.835559	.9225144	105.8953
#1	.6006103	.1353364	2.576543	14.60545	6.963116	-.008130
#2	1.075441	.1490790	2.503220	15.97382	6.964483	.000204
#3	.146509	.1429673	2.649970	14.83859	7.075660	-.018238

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5033-12 Acquired: 12/16/2024 6:47:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001398	2.517978	8.771220	.0620658	.7461092	.6760203
Stddev	.000110	.026404	.108696	.0028187	.0151936	.0203580
%RSD	7.854039	1.048599	1.239231	4.541461	2.036375	3.011445
#1	-.001416	2.501560	8.646111	.0610476	.7369440	.6598465
#2	-.001498	2.503938	8.825079	.0598977	.7636473	.6988806
#3	-.001280	2.548435	8.842469	.0652521	.7377363	.6693339

Elem	Li6707
Units	ppm
Avg	.2330107
Stddev	.0085488
%RSD	3.668858
#1	.2334053
#2	.2413554
#3	.2242714

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2561.062	31860.18	3033.450	2164.412	2672.804
Stddev	15.298	1190.47	50.965	81.421	17.033
%RSD	.5973285	3.736561	1.680103	3.761811	.6372805
#1	2554.725	31452.51	3071.157	2135.445	2676.386
#2	2578.511	33200.93	2975.468	2256.356	2687.761
#3	2549.951	30927.09	3053.727	2101.436	2654.264

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5033-13 Acquired: 12/16/2024 6:50:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0423458**	**.0363742**	**.1957429**	**-.052426**	**.0042490**	**47.51836**
Stddev	.0031948	.0020461	.0012144	.004913	.0016555	.54726
%RSD	7.544422	5.625166	.6204306	9.371819	38.96182	1.151685
#1	.0392405	.0377629	.1943437	-.052531	.0057440	46.88973
#2	.0456231	.0373351	.1963614	-.047461	.0024699	47.88848
#3	.0421739	.0340245	.1965236	-.057285	.0045331	47.77687

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6325680**	**.0050344**	**.0030157**	F **1072.422**	**.0855532**	**.1188360**
Stddev	.0056847	.0001273	.0000326	10.218	.0003938	.0007347
%RSD	.8986725	2.528982	1.079882	.9528433	.4603418	.6182166
#1	.6260048	.0048874	.0029785	1060.717	.0859002	.1180068
#2	.6357544	.0051049	.0030388	1079.564	.0856344	.1194059
#3	.6359449	.0051107	.0030298	1076.984	.0851251	.1190951

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2562585**	**110.3813**	**5.481179**	**99.78489**	**.1412530**	**-.007198**
Stddev	.0094398	1.3913	.070853	1.31549	.0003260	.000254
%RSD	3.683684	1.260406	1.292662	1.318327	.2308144	3.522511
#1	.2488660	108.7752	5.399600	98.26744	.1414977	-.007127
#2	.2530176	111.2157	5.527333	100.4842	.1413785	-.006987
#3	.2668917	111.1529	5.516606	100.6030	.1408829	-.007479

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.044469**	**.0774179**	**.4228903**	**14.36591**	**3.476524**	**.0452683**
Stddev	.890886	.0055096	.0154698	.31141	.007979	.0018464
%RSD	2003.368	7.116663	3.658118	2.167705	.2295123	4.078708
#1	-1.04638	.0831036	.4050299	14.02208	3.467560	.0452707
#2	.25449	.0770471	.4315536	14.44665	3.479163	.0434208
#3	.65848	.0721032	.4320873	14.62900	3.482849	.0471135

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5033-13 Acquired: 12/16/2024 6:50:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003395	2.409015	7.056049	.0190644	.2299684	.8510578
Stddev	.000453	.001723	.099808	.0022327	.0029940	.0102875
%RSD	13.33365	.0715157	1.414505	11.71134	1.301917	1.208786
#1	-.003514	2.408689	6.955155	.0209641	.2268819	.8391989
#2	-.003776	2.407478	7.058256	.0166051	.2301629	.8563901
#3	-.002895	2.410877	7.154735	.0196241	.2328604	.8575845

Elem	Li6707
Units	ppm
Avg	.1975970
Stddev	.0041101
%RSD	2.080058
#1	.2023419
#2	.1951356
#3	.1953136

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2428.216	29979.37	2919.023	2043.170	2643.070
Stddev	8.334	257.98	43.516	12.430	9.507
%RSD	.3432047	.8605107	1.490767	.6083771	.3596959
#1	2431.122	30103.94	2969.103	2045.983	2648.858
#2	2434.709	29682.74	2890.433	2029.574	2648.254
#3	2418.819	30151.41	2897.532	2053.952	2632.098

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5033-14 Acquired: 12/16/2024 6:54:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKG8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1095384**	**.0222180**	**2.481951**	**-.012116**	**.0191703**	**50.84897**	**.8739423**
Stddev	.0036433	.0012766	.009533	.005708	.0012693	.20911	.0070732
%RSD	3.326027	5.745616	.3840859	47.11141	6.621346	.4112338	.8093497
#1	.1082253	.0208104	2.487925	-.011133	.0197423	50.83718	.8715595
#2	.1067337	.0233009	2.470957	-.018252	.0200530	51.06373	.8818992
#3	.1136562	.0225426	2.486970	-.006963	.0177156	50.64601	.8683681

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0048189**	**.0060576**	**66.37135**	**.1315699**	**.1074374**	**.3002162**	**119.6730**
Stddev	.0001089	.0001295	.07112	.0014792	.0006475	.0074597	.4997
%RSD	2.258805	2.137733	.1071539	1.124233	.6026875	2.484770	.4175574
#1	.0049387	.0060634	66.35175	.1303936	.1075232	.2916657	119.3077
#2	.0047919	.0059253	66.45021	.1310856	.1067513	.3053934	120.2424
#3	.0047261	.0061841	66.31208	.1332305	.1080378	.3035895	119.4689

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.73415**	**24.52936**	**.1775271**	**-.005804**	**.3336342**	**.1136325**	**.8461699**
Stddev	.06040	.03429	.0006733	.000702	.1388330	.0041156	.0109798
%RSD	.5627357	.1397955	.3792554	12.09786	41.61233	3.621858	1.297584
#1	10.70145	24.53471	.1773972	-.006490	.4739269	.1140323	.8341128
#2	10.80385	24.56066	.1769283	-.005836	.3306673	.1175337	.8555933
#3	10.69714	24.49270	.1782559	-.005087	.1963085	.1093316	.8488037

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.683024**	**8.276867**	**-.002589**	**.0045111**	**4.842473**	**7.488312**	**.0746602**
Stddev	.073256	.033884	.002149	.0001005	.019272	.108344	.0010522
%RSD	.9534753	.4093810	82.99329	2.228063	.3979695	1.446841	1.409254
#1	7.754157	8.302993	-.004931	.0044016	4.849331	7.608592	.0738520
#2	7.607815	8.238581	-.002127	.0045991	4.820710	7.457969	.0742787
#3	7.687101	8.289026	-.000709	.0045324	4.857377	7.398374	.0758499

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5033-14 Acquired: 12/16/2024 6:54:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKG8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8405632	.0152370	.0799755
Stddev	.0042155	.0003014	.0032203
%RSD	.5015138	1.978120	4.026626
#1	.8441945	.0150305	.0832427
#2	.8415550	.0155829	.0798795
#3	.8359402	.0150976	.0768043

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2610.500	33091.73	3033.026	2247.889	3091.914
Stddev	4.104	257.98	20.132	31.125	8.087
%RSD	.1572054	.7796021	.6637680	1.384635	.2615639
#1	2609.351	33368.16	3015.422	2283.234	3083.660
#2	2607.094	33049.67	3028.680	2235.857	3092.259
#3	2615.057	32857.36	3054.977	2224.575	3099.824

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5033-15 Acquired: 12/16/2024 6:58:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKG9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1322276	.0212477	2.753110	-.005437	.0267928	64.16549	.8410455
Stddev	.0017020	.0002816	.012599	.005564	.0015335	.23725	.0042315
%RSD	1.287169	1.325527	.4576152	102.3408	5.723518	.3697548	.5031186
#1	.1325867	.0213696	2.744058	-.001895	.0282514	64.39849	.8459155
#2	.1303747	.0209257	2.747773	-.002566	.0269329	63.92419	.8382676
#3	.1337214	.0214479	2.767499	-.011849	.0251941	64.17380	.8389534

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0063052	.0072567	86.54707	.1357553	.1231513	.3444138	164.9590
Stddev	.0001435	.0001783	.15091	.0013238	.0005592	.0076776	.7234
%RSD	2.275531	2.456346	.1743718	.9751730	.4541034	2.229185	.4385402
#1	.0062660	.0072502	86.64736	.1342266	.1225109	.3490903	165.5284
#2	.0064642	.0070818	86.37351	.1365170	.1235431	.3485980	164.1450
#3	.0061854	.0074381	86.62034	.1365222	.1234001	.3355530	165.2035

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.05368	27.96269	.2152158	-.010632	.6489595	.1624620	.9322210
Stddev	.03074	.06180	.0003911	.000511	.2939977	.0042015	.0141485
%RSD	.2550588	.2210024	.1817254	4.802120	45.30293	2.586146	1.517723
#1	12.08465	27.92539	.2150501	-.011219	.6652820	.1639453	.9189389
#2	12.02316	28.03402	.2149348	-.010288	.3471405	.1657207	.9306236
#3	12.05322	27.92866	.2156625	-.010390	.9344558	.1577200	.9471004

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.00477	9.015009	-.008444	.0061323	5.818086	6.537523	.0836853
Stddev	.12997	.034573	.002341	.0002842	.026613	.031072	.0017937
%RSD	1.299117	.3835033	27.72650	4.634926	.4574114	.4752876	2.143401
#1	10.14202	8.978722	-.006175	.0061329	5.796419	6.548378	.0816146
#2	9.88357	9.018740	-.008306	.0064162	5.810047	6.561712	.0847599
#3	9.98871	9.047565	-.010851	.0058477	5.847791	6.502480	.0846814

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5033-15 Acquired: 12/16/2024 6:58:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKG9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6500701	-.000411	.1004562
Stddev	.0023216	.000441	.0028532
%RSD	.3571319	107.3579	2.840283
#1	.6508399	-.000900	.0975373
#2	.6519090	-.000045	.1032389
#3	.6474614	-.000287	.1005924

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2675.865	32860.36	3031.515	2244.468	3138.907
Stddev	1.729	323.16	17.526	15.801	5.199
%RSD	.0646098	.9834368	.5781423	.7039849	.1656192
#1	2676.430	33218.36	3050.315	2262.712	3143.987
#2	2677.241	32590.20	3015.628	2235.569	3139.137
#3	2673.924	32772.53	3028.601	2235.125	3133.598

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5033-16 Acquired: 12/16/2024 7:02:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKH0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1965633	.0312394	4.490311	-.004712	.0272111	64.40140
Stddev	.0039302	.0025257	.041113	.004247	.0016282	.03272
%RSD	1.999455	8.085082	.9156037	90.12823	5.983729	.0508046
#1	.2004723	.0332398	4.512701	.000155	.0267179	64.39645
#2	.1926123	.0320772	4.442862	-.007665	.0258864	64.37143
#3	.1966051	.0284012	4.515370	-.006625	.0290288	64.43631

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.051281	.0068675	.0088776	91.81536	.1343316	.1502416
Stddev	.001406	.0001439	.0002245	.06357	.0009981	.0014729
%RSD	.1337042	2.095755	2.528340	.0692360	.7429884	.9803504
#1	1.050321	.0069167	.0088925	91.74196	.1354757	.1508798
#2	1.050627	.0069803	.0086460	91.85274	.1338799	.1485573
#3	1.052894	.0067054	.0090942	91.85138	.1336392	.1512878

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9360564	165.4112	15.56713	29.89922	.2499840	-.007896
Stddev	.0015205	.2140	.01548	.13060	.0031194	.000665
%RSD	.1624310	.1293612	.0994116	.4367861	1.247828	8.424111
#1	.9349476	165.1788	15.56000	30.04850	.2515973	-.008261
#2	.9377897	165.6001	15.55650	29.80608	.2463883	-.007128
#3	.9354320	165.4547	15.58488	29.84308	.2519663	-.008298

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3430139	.1540569	1.104164	10.08764	F 13.34977	-.022734
Stddev	.6037789	.0069264	.014311	.11166	.12272	.003298
%RSD	176.0217	4.496020	1.296137	1.106891	.9192632	14.50865
#1	-.274278	.1462675	1.088367	9.99736	13.42533	-.025240
#2	.371013	.1563804	1.107857	10.21249	13.20817	-.018997
#3	.932306	.1595229	1.116266	10.05306	13.41580	-.023966

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5033-16 Acquired: 12/16/2024 7:02:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKH0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0065174**	**4.380171**	**8.436367**	**.1227473**	**1.048681**	**-.005177**
Stddev	.0003857	.049632	.062744	.0003539	.002144	.000574
%RSD	5.918501	1.133096	.7437364	.2882979	.2044448	11.07935
#1	.0062729	4.416662	8.508586	.1228729	1.048933	-.005011
#2	.0063171	4.323656	8.405271	.1223478	1.046423	-.005815
#3	.0069620	4.400195	8.395243	.1230213	1.050689	-.004704

Elem	Li6707
Units	ppm
Avg	**.1019453**
Stddev	.0036396
%RSD	3.570154
#1	.0983286
#2	.1056074
#3	.1019001

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2707.830**	**33140.06**	**3083.275**	**2260.119**	**3042.115**
Stddev	20.904	50.49	16.153	6.712	30.625
%RSD	.7719880	.1523677	.5239010	.2969966	1.006688
#1	2700.240	33157.07	3065.101	2267.231	3027.163
#2	2731.469	33083.26	3088.723	2253.895	3077.343
#3	2691.782	33179.86	3095.999	2259.231	3021.839

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5033-17 Acquired: 12/16/2024 7:06:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKH1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1224545	.0303651	2.239821	.0045895	.0299410	78.42657	1.051124
Stddev	.0014079	.0046583	.036983	.0030998	.0012927	.23707	.001954
%RSD	1.149717	15.34092	1.651140	67.54260	4.317321	.3022826	.1858612
#1	.1233970	.0314857	2.259383	.0017539	.0305626	78.44095	1.052089
#2	.1231302	.0343609	2.197166	.0078990	.0308054	78.18264	1.048875
#3	.1208361	.0252487	2.262914	.0041155	.0284549	78.65613	1.052407

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0063806	.0072452	61.13888	.1036481	.1552440	.3044969	175.3029
Stddev	.0001194	.0001246	.15143	.0011486	.0027934	.0015536	.2141
%RSD	1.871590	1.720133	.2476787	1.108152	1.799351	.5102093	.1221463
#1	.0064026	.0073300	60.98285	.1045854	.1557173	.3038390	175.0767
#2	.0062517	.0071021	61.14854	.1023668	.1522442	.3033805	175.3295
#3	.0064875	.0073035	61.28524	.1039920	.1577705	.3062711	175.5025

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.12573	18.83381	.1551229	-.009561	.3567297	.1368805	.5440964
Stddev	.03612	.07637	.0024769	.000540	.7065890	.0069097	.0148892
%RSD	.1794553	.4054688	1.596718	5.646337	198.0741	5.047949	2.736505
#1	20.09617	18.87185	.1565997	-.009787	-.258987	.1415858	.5395731
#2	20.11503	18.74589	.1522634	-.009951	.200974	.1289477	.5607227
#3	20.16599	18.88368	.1565056	-.008945	1.128202	.1401080	.5319934

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.396299	6.780994	-.048943	.0046265	2.031233	8.795652	.0967071
Stddev	.153974	.129071	.002986	.0004180	.037113	.082914	.0006803
%RSD	2.407234	1.903425	6.101562	9.034823	1.827114	.9426667	.7034388
#1	6.230346	6.848417	-.048665	.0046783	2.045507	8.791555	.0965928
#2	6.424024	6.632174	-.046106	.0041850	1.989102	8.714862	.0974372
#3	6.534527	6.862391	-.052059	.0050161	2.059090	8.880538	.0960912

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5033-17 Acquired: 12/16/2024 7:06:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKH1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.9840823	-.040533	.0846478
Stddev	.0011842	.000294	.0023708
%RSD	.1203324	.7243356	2.800776
#1	.9832076	-.040866	.0867394
#2	.9854299	-.040423	.0820725
#3	.9836095	-.040311	.0851316

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2669.685	32322.16	3111.620	2208.774	3092.353
Stddev	25.373	608.45	34.064	49.478	41.077
%RSD	.9504297	1.882457	1.094726	2.240073	1.328339
#1	2657.456	31621.18	3098.660	2152.437	3069.161
#2	2698.857	32713.70	3150.262	2228.718	3139.780
#3	2652.742	32631.60	3085.939	2245.168	3068.116

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5033-18 Acquired: 12/16/2024 7:10:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKH2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1163813	.0263452	1.197433	.0089987	.0330368	79.02943	.7895954
Stddev	.0033241	.0025274	.009771	.0021794	.0016414	.32840	.0040143
%RSD	2.856211	9.593350	.8160005	24.21967	4.968404	.4155418	.5083947
#1	.1189229	.0281031	1.195361	.0109526	.0345005	78.65516	.7860136
#2	.1126195	.0274836	1.188865	.0066482	.0312622	79.16374	.7888384
#3	.1176013	.0234488	1.208074	.0093953	.0333477	79.26938	.7939343

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071394	.0069974	40.47967	.0969089	.1533792	.2108809	192.7096
Stddev	.0002782	.0000992	.18325	.0008962	.0006424	.0011122	.8679
%RSD	3.897114	1.418103	.4526969	.9247419	.4188298	.5273989	.4503463
#1	.0070099	.0069346	40.33238	.0967255	.1532883	.2109029	191.7504
#2	.0074587	.0069458	40.42175	.0978826	.1527872	.2097579	192.9379
#3	.0069495	.0071118	40.68488	.0961187	.1540623	.2119819	193.4405

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.31725	16.37895	.1549790	-.013737	.0345788	.1478513	.4378064
Stddev	.07993	.02750	.0007446	.000369	.1609740	.0102592	.0212716
%RSD	.4137928	.1678755	.4804267	2.684475	465.5279	6.938900	4.858667
#1	19.23150	16.38169	.1558231	-.013330	.2028579	.1535137	.4454071
#2	19.33052	16.40497	.1544156	-.013831	.0188077	.1360087	.4137785
#3	19.38971	16.35019	.1546983	-.014050	-.117929	.1540315	.4542335

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.735669	4.168369	-.062227	.0043529	1.227659	8.949754	.0634667
Stddev	.088368	.042711	.004435	.0005478	.015284	.105082	.0006602
%RSD	1.866005	1.024653	7.127369	12.58554	1.244970	1.174128	1.040271
#1	4.835281	4.163925	-.062027	.0048359	1.226551	8.883673	.0642266
#2	4.705020	4.128054	-.066758	.0037576	1.212959	9.070926	.0631391
#3	4.666706	4.213129	-.057895	.0044652	1.243466	8.894664	.0630343

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5033-18 Acquired: 12/16/2024 7:10:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKH2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.9729350	-.092604	.0757856
Stddev	.0082845	.000538	.0025310
%RSD	.8514915	.5804508	3.339637
#1	.9643903	-.092077	.0733077
#2	.9734826	-.092584	.0756827
#3	.9809320	-.093151	.0783665

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2814.799	34606.06	3209.664	2367.672	3155.418
Stddev	1.377	158.70	27.586	11.497	10.429
%RSD	.0489042	.4585900	.8594570	.4855738	.3305028
#1	2813.931	34532.19	3222.012	2367.705	3153.295
#2	2816.386	34788.23	3178.062	2379.153	3166.744
#3	2814.080	34497.76	3228.919	2356.159	3146.214

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5033-19 Acquired: 12/16/2024 7:13:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKH3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1382068	.0254287	1.131896	.0142834	.0429143	84.96596	.7861016
Stddev	.0046648	.0021044	.001861	.0034460	.0006951	.24606	.0028338
%RSD	3.375231	8.275581	.1644162	24.12618	1.619859	.2895928	.3604911
#1	.1394001	.0256043	1.133090	.0181176	.0435515	85.14700	.7886365
#2	.1421591	.0274397	1.132847	.0114447	.0421730	84.68581	.7866263
#3	.1330613	.0232420	1.129752	.0132879	.0430185	85.06507	.7830421

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0079805	.0078457	39.35461	.1162598	.1716406	.2673345	241.7845
Stddev	.0002424	.0002007	.06015	.0017091	.0004474	.0044112	1.0466
%RSD	3.037752	2.557941	.1528525	1.470064	.2606679	1.650049	.4328750
#1	.0079397	.0076588	39.38057	.1180797	.1718718	.2704537	242.4487
#2	.0077611	.0080578	39.28584	.1146889	.1711249	.2692622	240.5780
#3	.0082407	.0078205	39.39742	.1160108	.1719251	.2622876	242.3267

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.74776	19.26442	.1895663	-.018064	.9462560	.1746759	.4217513
Stddev	.09051	.10604	.0008688	.000588	.4316354	.0045608	.0083502
%RSD	.4362220	.5504297	.4582936	3.253921	45.61507	2.611007	1.979888
#1	20.78689	19.30574	.1886445	-.018401	1.139635	.1779774	.4199437
#2	20.64428	19.14395	.1903699	-.018405	1.247388	.1765786	.4308573
#3	20.81212	19.34359	.1896846	-.017385	.451744	.1694719	.4144529

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.354429	4.618999	-.081182	.0050339	1.184042	8.023636	.0587878
Stddev	.144724	.002076	.002546	.0001692	.008960	.079184	.0005856
%RSD	2.702877	.0449503	3.136415	3.360408	.7567048	.9868872	.9960927
#1	5.483191	4.618678	-.080660	.0052142	1.185960	8.041589	.0594303
#2	5.382298	4.617102	-.078938	.0050086	1.174279	7.937017	.0582841
#3	5.197797	4.621217	-.083949	.0048787	1.191888	8.092303	.0586489

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5033-19 Acquired: 12/16/2024 7:13:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKH3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.9887696	-.141769	.0844241
Stddev	.0066101	.000358	.0048287
%RSD	.6685210	.2522697	5.719526
#1	.9961325	-.142065	.0897803
#2	.9833462	-.141371	.0830873
#3	.9868301	-.141870	.0804046

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3004.177	36689.40	3417.899	2510.230	3137.911
Stddev	4.673	174.38	30.626	13.726	6.466
%RSD	.1555572	.4752824	.8960544	.5467851	.2060585
#1	3006.972	36692.40	3415.506	2506.433	3142.088
#2	2998.782	36862.26	3449.651	2525.455	3130.463
#3	3006.777	36513.54	3388.539	2498.803	3141.181

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5033-20 Acquired: 12/16/2024 7:17:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKP7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1217923**	**.0288776**	**1.359706**	**.0121502**	**.0340631**	**78.78810**	**.8105424**
Stddev	.0045712	.0008832	.001455	.0062495	.0030463	.32332	.0037073
%RSD	3.753266	3.058316	.1069963	51.43572	8.943159	.4103722	.4573858
#1	.1208665	.0278594	1.359705	.0164247	.0324383	79.14409	.8143114
#2	.1177548	.0294360	1.358252	.0150481	.0321737	78.70753	.8104157
#3	.1267555	.0293375	1.361162	.0049777	.0375774	78.51269	.8069001

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0070579**	**.0070134**	**46.07960**	**.1013178**	**.1575880**	**.2287460**	**197.3220**
Stddev	.0001296	.0001349	.07310	.0006625	.0007118	.0049203	.8088
%RSD	1.836088	1.922734	.1586402	.6538687	.4516831	2.150976	.4099000
#1	.0069691	.0070157	46.12619	.1017503	.1571210	.2321534	197.4208
#2	.0072066	.0068774	45.99535	.1005552	.1572358	.2231051	198.0768
#3	.0069981	.0071471	46.11726	.1016481	.1584073	.2309795	196.4683

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.84289**	**18.06159**	**.1575086**	**-.014227**	**.3421238**	**.1489973**	**.3996649**
Stddev	.07963	.14057	.0003490	.000549	.4038837	.0056913	.0104205
%RSD	.4013055	.7782642	.2215802	3.855992	118.0519	3.819736	2.607296
#1	19.87594	18.12787	.1578060	-.013798	.1873405	.1471052	.4112151
#2	19.90068	18.15677	.1571244	-.014845	.8005058	.1553936	.3968106
#3	19.75206	17.90014	.1575954	-.014039	.0385250	.1444930	.3909690

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.977356**	**4.406119**	**-.060013**	**.0048064**	**1.294229**	**8.037934**	**.0621516**
Stddev	.099540	.011144	.002302	.0003309	.004325	.082770	.0027780
%RSD	1.999857	.2529272	3.836270	6.885604	.3341982	1.029738	4.469745
#1	4.971792	4.405644	-.057402	.0051872	1.290004	8.067698	.0628169
#2	5.079561	4.395220	-.061749	.0045881	1.294035	8.101707	.0591013
#3	4.880714	4.417494	-.060890	.0046438	1.298648	7.944399	.0645365

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: P5033-20 Acquired: 12/16/2024 7:17:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKP7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.098308	-.090307	.0786411
Stddev	.005324	.000473	.0056267
%RSD	.4847680	.5232282	7.154891
#1	1.103729	-.090057	.0724383
#2	1.098110	-.090852	.0800680
#3	1.093086	-.090012	.0834170

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2758.640	33761.35	3161.809	2304.296	3063.712
Stddev	5.524	137.78	24.433	8.227	1.415
%RSD	.2002580	.4081070	.7727449	.3570202	.0461919
#1	2764.788	33653.19	3143.488	2300.869	3063.297
#2	2757.039	33916.47	3152.390	2313.682	3065.288
#3	2754.093	33714.40	3189.550	2298.336	3062.550

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: CCV038 Acquired: 12/16/2024 7:21:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV038 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.794122**	**4.667593**	**23.16617**	**4.786651**	**4.743940**	**386.0860**
Stddev	.019339	.024863	.07674	.020781	.019483	4.2417
%RSD	.4033846	.5326809	.3312586	.4341508	.4106902	1.098640
#1	4.792471	4.685089	23.17440	4.776001	4.748843	381.1977
#2	4.775662	4.639132	23.08565	4.773353	4.722474	388.2654
#3	4.814234	4.678558	23.23847	4.810598	4.760503	388.7950

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.524572**	**.4936381**	**2.523234**	**399.3673**	**14.82870**	**2.645508**
Stddev	.093127	.0077108	.005759	4.4732	.04703	.006906
%RSD	.9777601	1.562039	.2282204	1.120077	.3171640	.2610429
#1	9.417038	.4847593	2.523130	394.2475	14.77941	2.645341
#2	9.578470	.4986545	2.517528	401.3350	14.83358	2.638687
#3	9.578209	.4975003	2.529044	402.5193	14.87309	2.652496

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.27423**	**390.2688**	**13.91109**	**394.6556**	**2.427938**	**1.204057**
Stddev	.16037	3.9783	.14743	4.6060	.002422	.004741
%RSD	1.123525	1.019383	1.059832	1.167086	.0997599	.3937552
#1	14.08914	385.6911	13.74154	389.4096	2.427241	1.198991
#2	14.37194	392.2256	13.98256	396.5207	2.425941	1.208387
#3	14.36160	392.8899	14.00917	398.0365	2.430633	1.204791

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**399.9043**	**2.462548**	**14.51232**	**161.3428**	**4.650222**	**4.587777**
Stddev	3.0500	.013968	.06870	1.6291	.024054	.072395
%RSD	.7626843	.5672112	.4734028	1.009716	.5172553	1.577991
#1	396.4531	2.446476	14.58329	159.4697	4.648165	4.506748
#2	401.0219	2.471750	14.44614	162.1283	4.627264	4.646086
#3	402.2378	2.469419	14.50752	162.4302	4.675238	4.610498

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: CCV038 Acquired: 12/16/2024 7:21:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV038 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 4.433277	4.783642	4.572995	4.652246	4.601352	F 4.454460
Stddev	.017461	.023411	.065344	.016192	.053238	.047702
%RSD	.3938604	.4893913	1.428913	.3480530	1.157015	1.070885
#1	4.438158	4.786945	4.500750	4.655306	4.541953	4.399385
#2	4.413896	4.758755	4.627969	4.634741	4.644769	4.481242
#3	4.447779	4.805225	4.590266	4.666689	4.617335	4.482752

Elem	Li6707
Units	ppm
Avg	4.972233
Stddev	.042863
%RSD	.8620376
#1	4.922968
#2	4.992749
#3	5.000982

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1963.990	25844.60	2569.178	1641.091	2557.949
Stddev	4.210	78.26	30.592	12.646	2.586
%RSD	.2143681	.3028127	1.190729	.7705967	.1011077
#1	1961.141	25827.57	2604.340	1634.924	2556.126
#2	1968.826	25929.98	2554.533	1655.638	2560.909
#3	1962.003	25776.26	2548.662	1632.712	2556.811

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

Sample Name: CCB038 Acquired: 12/16/2024 7:25:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB038 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.006744**	**.0017384**	**.0030125**	**.0009822**	**-.001167**	**.0329475**
Stddev	.001668	.0022897	.0011609	.0036074	.000189	.0225913
%RSD	24.73280	131.7168	38.53728	367.2814	16.22948	68.56772
#1	-.007449	.0030386	.0036051	.0051475	-.001220	.0473747
#2	-.004839	.0030820	.0037576	-.001125	-.001324	.0069121
#3	-.007943	-.000905	.0016749	-.001076	-.000957	.0445556

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003436**	**.0000869**	**.0000894**	**.0100121**	**.0001102**	**-.000214**
Stddev	.0003742	.0001101	.0000201	.0478860	.0003691	.000137
%RSD	108.8901	126.6801	22.46086	478.2822	334.9366	64.24378
#1	.0005474	-.000032	.0000682	-.024750	-.000240	-.000287
#2	-.000088	.000185	.0001081	.064633	.000496	-.000299
#3	.000572	.000108	.0000921	-.009847	.000075	-.000055

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004982**	**-.013416**	**.0000796**	**.0780037**	**.0004273**	**.0001553**
Stddev	.008060	.009335	.0018796	.0207581	.0007673	.0012490
%RSD	161.7924	69.58534	2362.599	26.61172	179.5837	804.3688
#1	.004301	-.003025	.0022473	.0955862	.0006837	.0015617
#2	-.009042	-.016127	-.001096	.0551042	-.000435	-.000824
#3	-.010205	-.021096	-.000912	.0833207	.001034	-.000271

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.858237**	**.0012991**	**.0006816**	**-1.47655**	**.0013917**	**.0072601**
Stddev	.625050	.0032981	.0105841	.06572	.0022545	.0029889
%RSD	72.82950	253.8815	1552.935	4.451135	161.9964	41.16924
#1	-.196371	-.001615	-.010580	-1.53197	.0039394	.0041863
#2	-1.43844	.000632	.002201	-1.49374	-.000346	.0074377
#3	-.93990	.004880	.010424	-1.40394	.000581	.0101563

Reviewed By:Mohan
On:12/18/2024 3:02:43 AM
Inst Id :P5

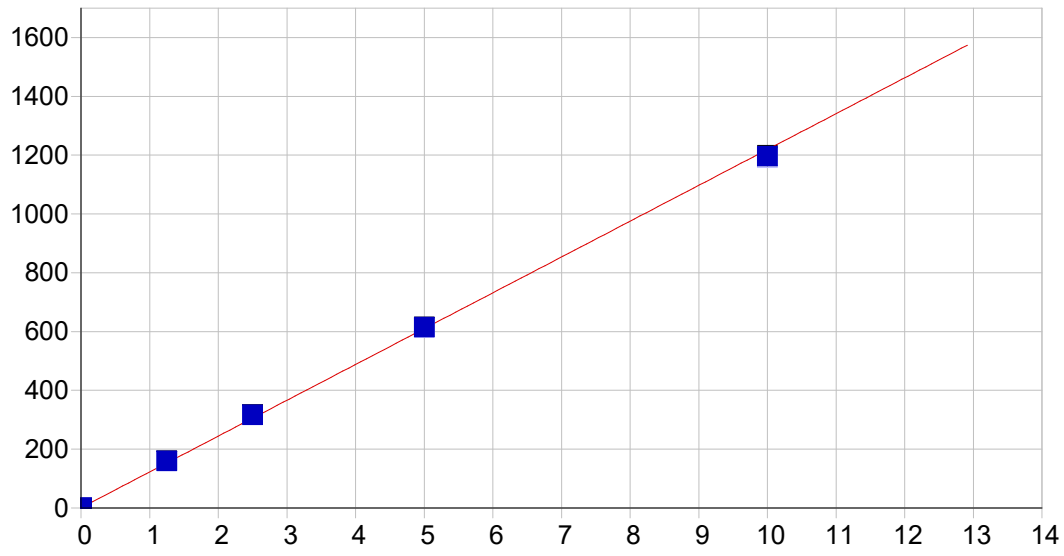
Sample Name: CCB038 Acquired: 12/16/2024 7:25:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB038 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007577	-.006550	.0000979	-.000273	-.001275	.0000951
Stddev	.0003729	.002884	.0008380	.001831	.002679	.0000914
%RSD	49.21694	44.02625	855.8448	670.5360	210.0631	96.14943
#1	.0010993	-.009878	.0010334	.001749	-.000663	.0000611
#2	.0008140	-.004971	-.000584	-.000748	.001044	.0001986
#3	.0003599	-.004800	-.000156	-.001820	-.004208	.0000255

Elem	Li6707
Units	ppm
Avg	F .0296005
Stddev	.0050040
%RSD	16.90500
#1	.0309091
#2	.0338201
#3	.0240722

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2347.640	28787.06	2615.242	1962.731	3228.028
Stddev	8.980	119.52	7.967	12.260	7.885
%RSD	.3825009	.4151868	.3046462	.6246414	.2442715
#1	2337.320	28667.51	2609.312	1955.822	3219.744
#2	2351.933	28787.09	2624.298	1955.484	3228.898
#3	2353.668	28906.56	2612.117	1976.886	3235.442

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



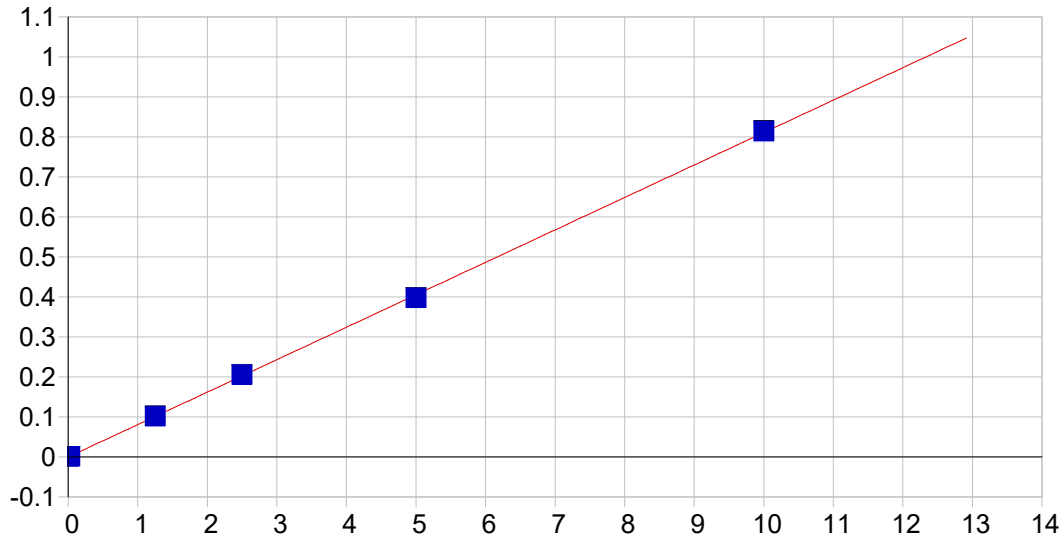
As 189.042 {478}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.707428	Re-Slope:	1.000000
A1 (Gain):	121.845964	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999711	Status:	OK.
Std Error of Est:	0.048899		
Predicted MDL:	0.006339		
Predicted MQL:	0.021131		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.70768	.190	1
S1	.01000	.00719	-.003	-28.1	1.5820	.224	1
S2	1.2500	1.3043	.054	4.34	158.99	.366	1
S3	2.5000	2.5966	.097	3.86	315.81	.865	1
S4	5.0000	5.0403	.040	.807	612.29	.382	1
S5	10.000	9.8116	-.188	-1.88	1191.1	2.71	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



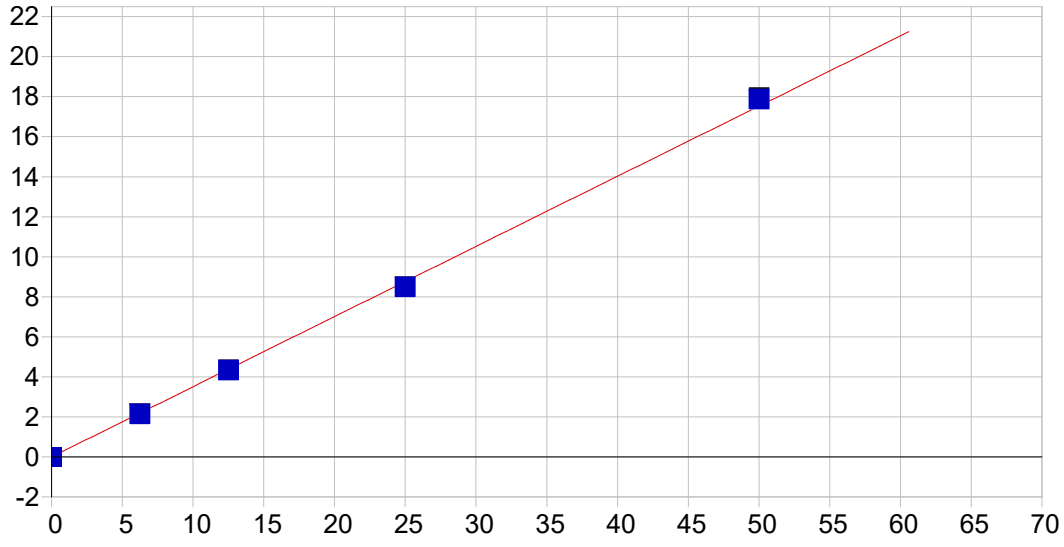
Tl 190.856 {477}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000342	Re-Slope:	1.000000
A1 (Gain):	0.081117	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999927	Status:	OK.
Std Error of Est:	0.000026		
Predicted MDL:	0.003623		
Predicted MQL:	0.012076		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00034	.000	1
S1	.02500	.02736	.002	9.46	.00181	.000	1
S2	1.2500	1.2605	.011	.841	.10164	.000	1
S3	2.5000	2.5389	.039	1.56	.20508	.001	1
S4	5.0000	4.9090	-.091	-1.82	.39682	.001	1
S5	10.000	10.039	.039	.393	.81192	.002	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



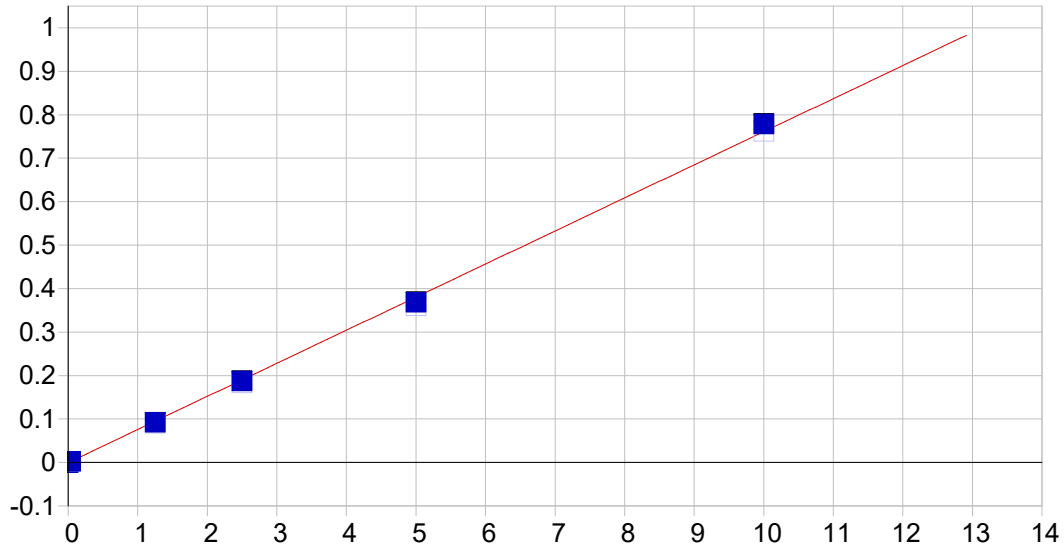
Pb 220.353 {453}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000135	Re-Slope:	1.000000
A1 (Gain):	0.350619	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999747	Status:	OK.
Std Error of Est:	0.000295		
Predicted MDL:	0.002288		
Predicted MQL:	0.007628		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00014	.001	1
S1	.01000	.00842	-.002	-15.8	.00307	.001	1
S2	6.2500	6.1312	-.119	-1.90	2.1475	.003	1
S3	12.500	12.375	-.125	-.997	4.3345	.001	1
S4	25.000	24.238	-.762	-3.05	8.4889	.010	1
S5	50.000	51.007	1.01	2.01	17.865	.055	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



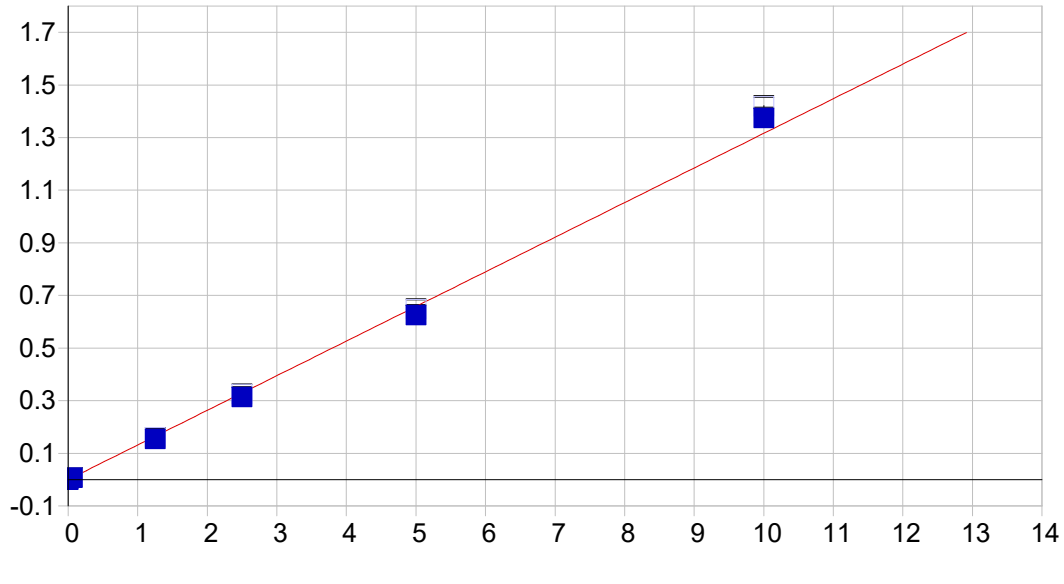
Se 196.090 {472}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000252	Re-Slope:	1.000000
A1 (Gain):	0.076112	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999668	Status:	OK.
Std Error of Est:	0.000060		
Predicted MDL:	0.004410		
Predicted MQL:	0.014700		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00025	.000	1
S1	.03500	.03245	-.003	-7.28	.00221	.000	1
S2	1.2500	1.2142	-.036	-2.86	.09002	.000	1
S3	2.5000	2.4639	-.036	-1.44	.18300	.001	1
S4	5.0000	4.8440	-.156	-3.12	.35987	.001	1
S5	10.000	10.230	.230	2.30	.76128	.002	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



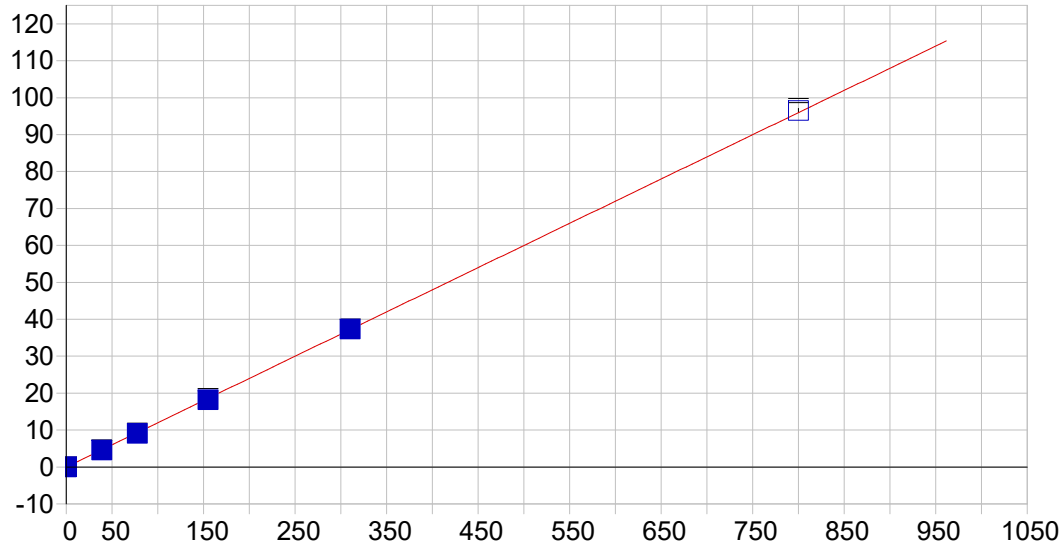
Sb 206.833 {463}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000155	Re-Slope:	1.000000
A1 (Gain):	0.131601	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998944	Status:	OK.
Std Error of Est:	0.000257		
Predicted MDL:	0.003267		
Predicted MQL:	0.010890		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00016	.000	1
S1	.06000	.05665	-.003	-5.58	.00761	.000	1
S2	1.2500	1.1714	-.079	-6.29	.15981	.001	1
S3	2.5000	2.3857	-.114	-4.57	.32512	.001	1
S4	5.0000	4.7515	-.248	-4.97	.64746	.002	1
S5	10.000	10.445	.445	4.45	1.4187	.003	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



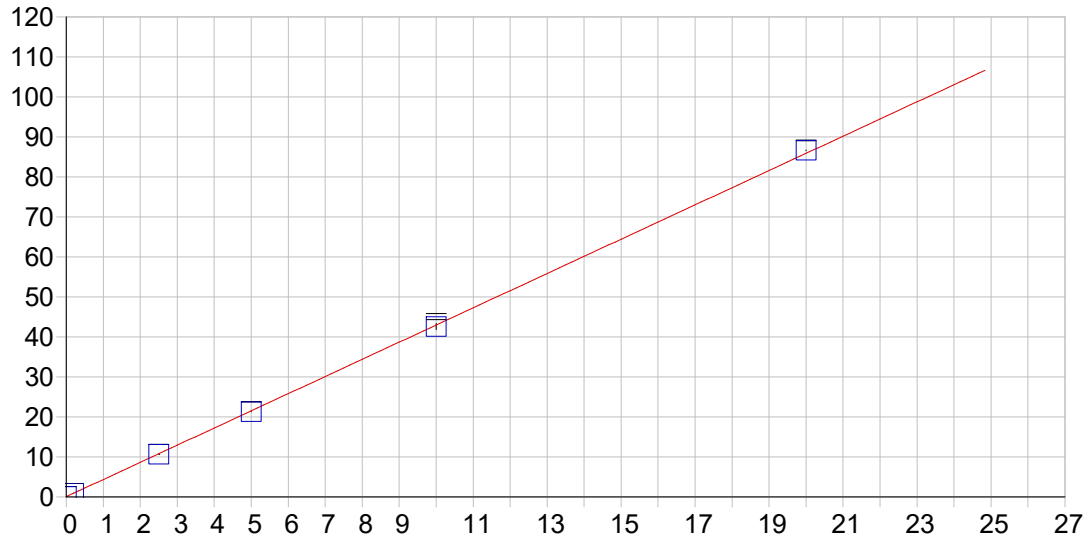
Al 396.152 { 85}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.005186	Re-Slope:	1.000000
A1 (Gain):	0.119963	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999943	Status:	OK.
Std Error of Est:	0.000795		
Predicted MDL:	0.025668		
Predicted MQL:	0.085559		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00519	.002	1
S1	.20000	.22162	.022	10.8	.02144	.003	1
S2	38.750	37.875	-.875	-2.26	4.5435	.006	1
S3	77.500	75.880	-1.62	-2.09	9.1077	.034	1
S4	155.00	151.71	-3.29	-2.13	18.214	.292	1
S5	310.00	311.10	1.10	.356	37.356	.034	1
S6	800.00	804.67	4.67	.583	96.525	.559	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



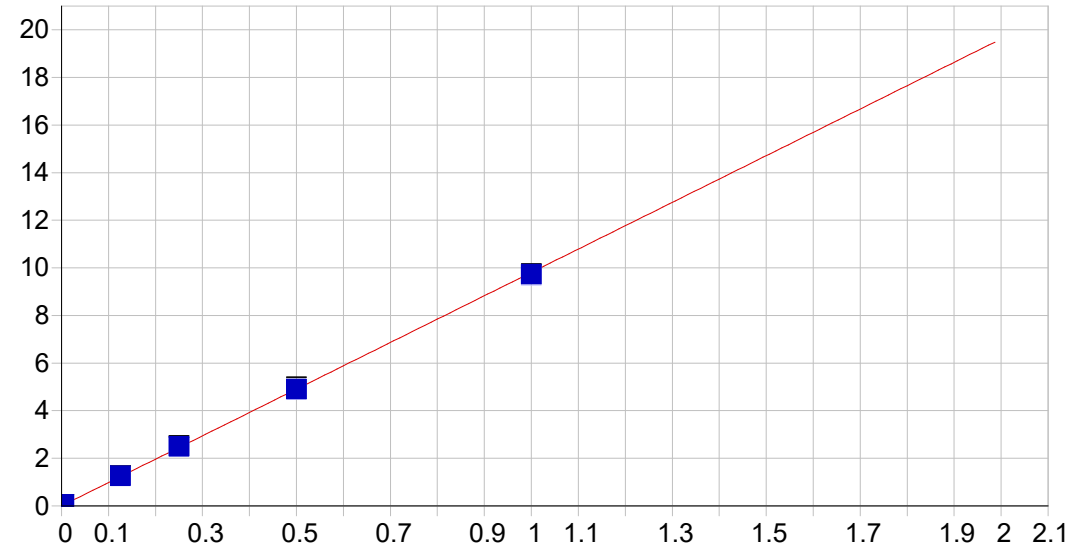
Ba 493.409 { 68}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.059957	Re-Slope:	1.000000
A1 (Gain):	4.291399	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999957	Status:	OK.
Std Error of Est:	0.004244		
Predicted MDL:	0.001517		
Predicted MQL:	0.005057		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.05997	.014	1
S1	.20000	.20102	.001	.512	.92263	.004	1
S2	2.5000	2.4644	-.036	-1.42	10.636	.006	1
S3	5.0000	4.9503	-.050	-.993	21.304	.056	1
S4	10.000	9.9119	-.088	-.881	42.596	.742	1
S5	20.000	20.172	.172	.861	86.627	.094	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



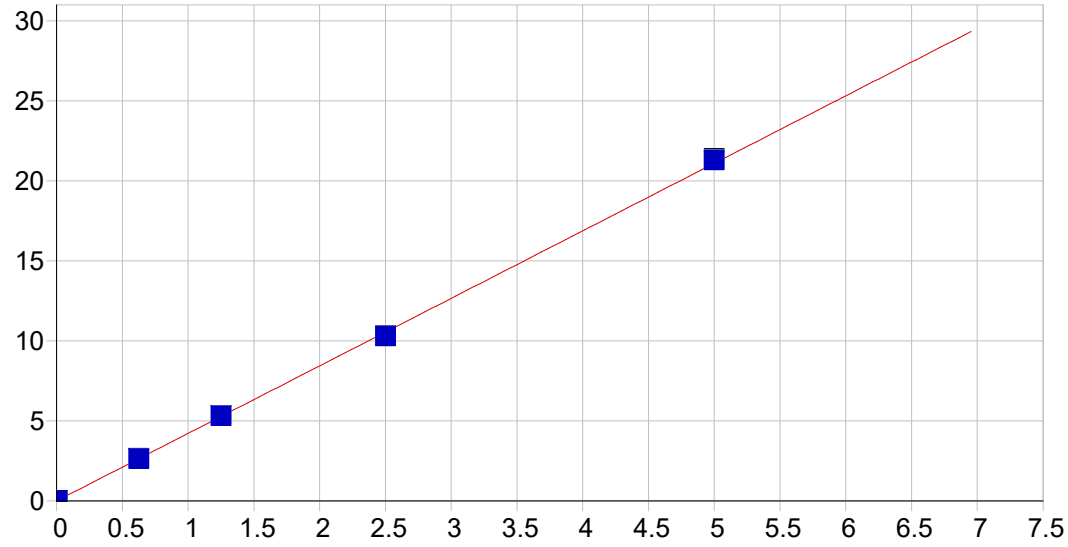
Be 234.861 {144}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001631	Re-Slope:	1.000000
A1 (Gain):	9.807787	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999925	Status:	OK.
Std Error of Est:	0.000450		
Predicted MDL:	0.000131		
Predicted MQL:	0.000437		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00163	.001	1
S1	.00500	.00525	.000	5.07	.05311	.000	1
S2	.12500	.12852	.004	2.82	1.2565	.009	1
S3	.25000	.25497	.005	1.99	2.4911	.031	1
S4	.50000	.49956	-.000	-.088	4.8787	.099	1
S5	1.0000	.99169	-.008	-.831	9.6829	.038	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



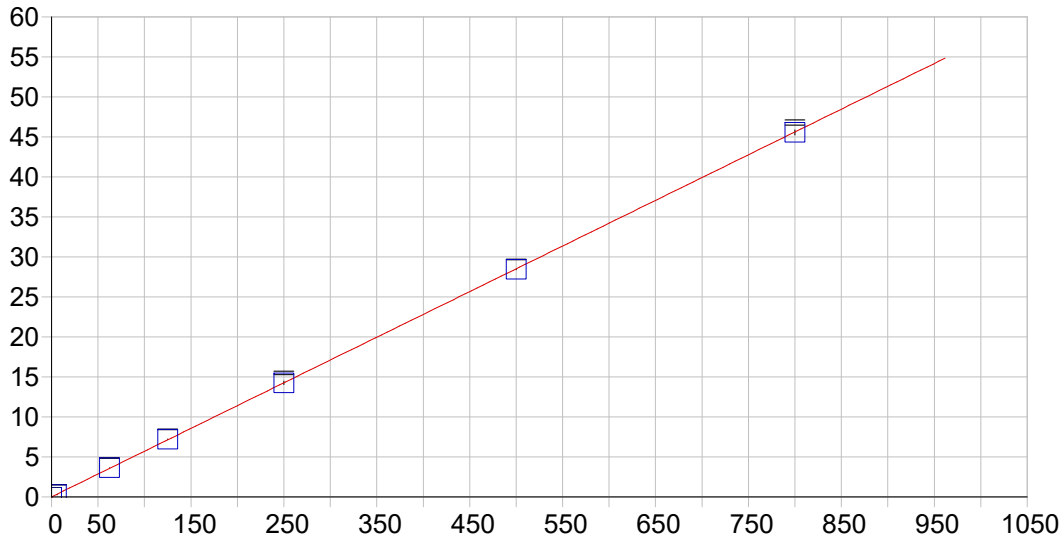
Cd 214.438 {457}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000638	Re-Slope:	1.000000
A1 (Gain):	4.219567	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999897	Status:	OK.
Std Error of Est:	0.000509		
Predicted MDL:	0.000118		
Predicted MQL:	0.000394		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00064	.000	1
S1	.00500	.00496	-.000	-.769	.02165	.001	1
S2	.62500	.62670	.002	.272	2.6491	.006	1
S3	1.2500	1.2615	.011	.919	5.3317	.010	1
S4	2.5000	2.4407	-.059	-2.37	10.316	.011	1
S5	5.0000	5.0461	.046	.923	21.326	.065	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



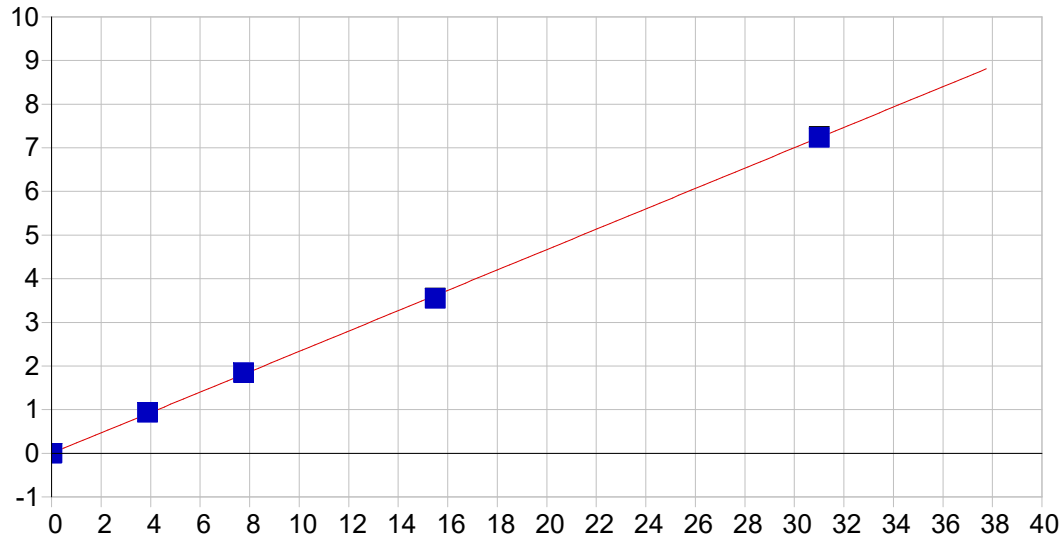
Ca 373.690 { 90}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.008027	Re-Slope:	1.000000
A1 (Gain):	0.057013	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999993	Status:	OK.
Std Error of Est:	0.000759		
Predicted MDL:	0.036050		
Predicted MQL:	0.120167		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00014	-.000	.000	.00802	.001	1
S1	5.0000	5.0495	.050	.991	.29592	.001	1
S2	62.500	63.377	.877	1.40	3.6213	.010	1
S3	125.00	126.08	1.08	.866	7.1963	.035	1
S4	250.00	249.84	-.159	-.063	14.252	.216	1
S5	500.00	498.92	-1.08	-.216	28.453	.037	1
S6	800.00	799.23	-.769	-.096	45.574	.315	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



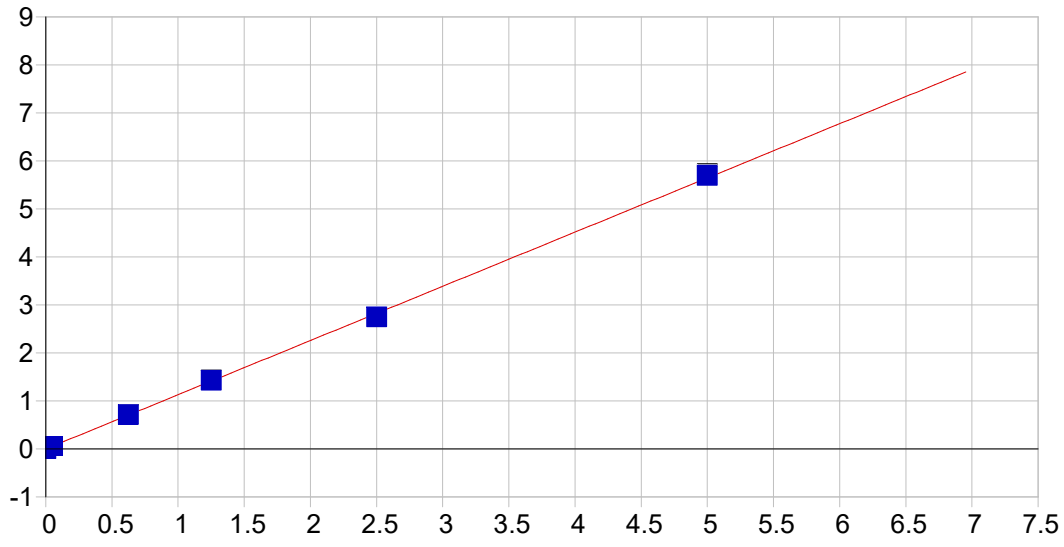
Cr 267.716 {126}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000231	Re-Slope:	1.000000
A1 (Gain):	0.233353	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999881	Status:	OK.
Std Error of Est:	0.000106		
Predicted MDL:	0.000934		
Predicted MQL:	0.003115		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00023	.000	1
S1	.01000	.00956	-.000	-4.40	.00246	.000	1
S2	3.8750	4.0070	.132	3.41	.93598	.002	1
S3	7.7500	7.9207	.171	2.20	1.8499	.002	1
S4	15.500	15.205	-.295	-1.90	3.5511	.005	1
S5	31.000	30.993	-.007	-.023	7.2381	.018	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



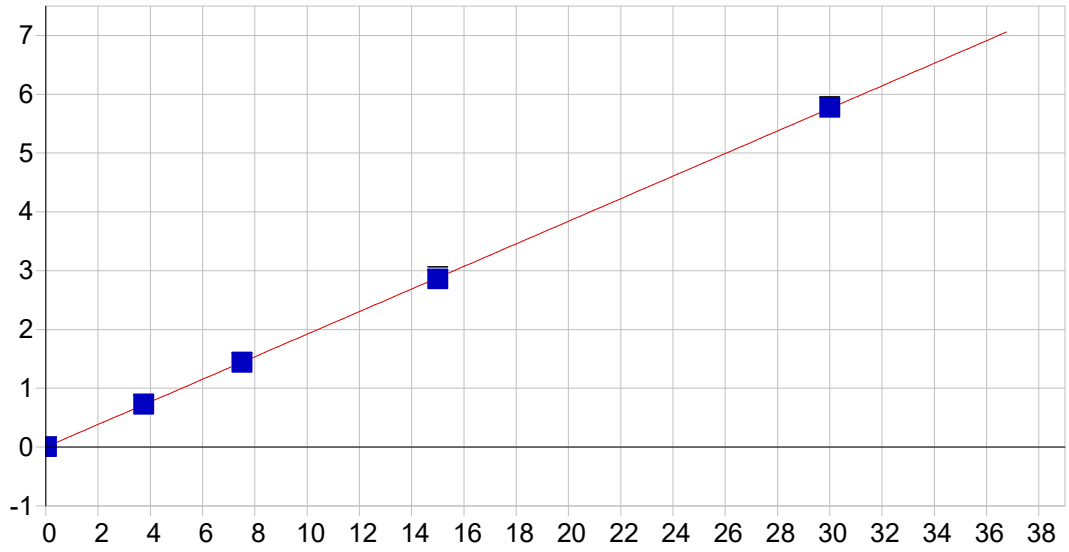
Co 228.616 {448}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000360	Re-Slope:	1.000000
A1 (Gain):	1.129159	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999875	Status:	OK.
Std Error of Est:	0.000476		
Predicted MDL:	0.000483		
Predicted MQL:	0.001611		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00036	.000	1
S1	.05000	.05108	.001	2.15	.05750	.001	1
S2	.62500	.63130	.006	1.01	.71475	.001	1
S3	1.2500	1.2642	.014	1.13	1.4316	.001	1
S4	2.5000	2.4342	-.066	-2.63	2.7573	.005	1
S5	5.0000	5.0443	.044	.886	5.7137	.022	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



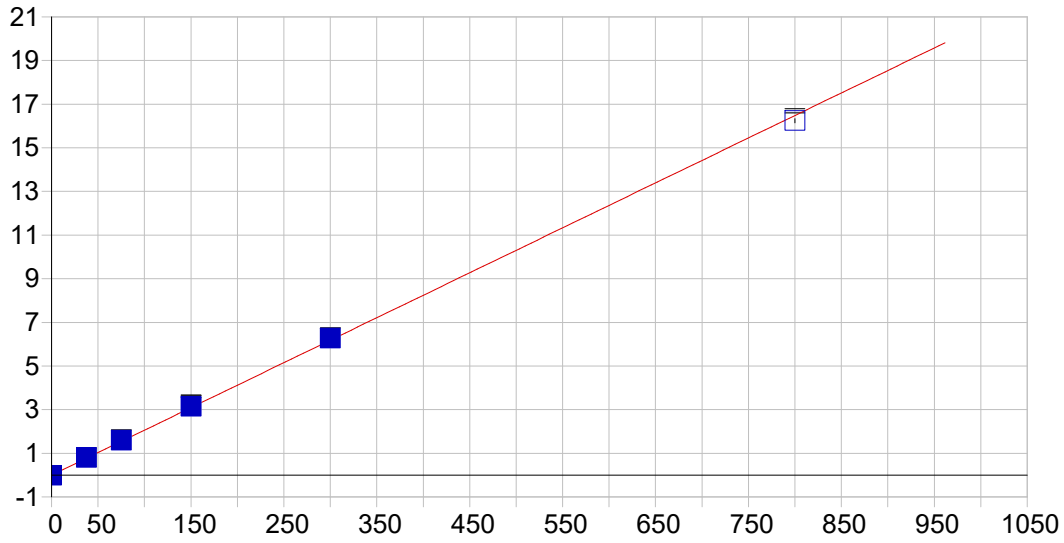
Cu 324.754 {104}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001468	Re-Slope:	1.000000
A1 (Gain):	0.191957	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999982	Status:	OK.
Std Error of Est:	0.000052		
Predicted MDL:	0.008087		
Predicted MQL:	0.026956		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00147	.002	1
S1	.02500	.02886	.004	15.4	.00700	.001	1
S2	3.7500	3.7833	.033	.888	.72761	.004	1
S3	7.5000	7.4874	-.013	-.168	1.4386	.004	1
S4	15.000	14.889	-.111	-.737	2.8593	.036	1
S5	30.000	30.086	.086	.287	5.7760	.012	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



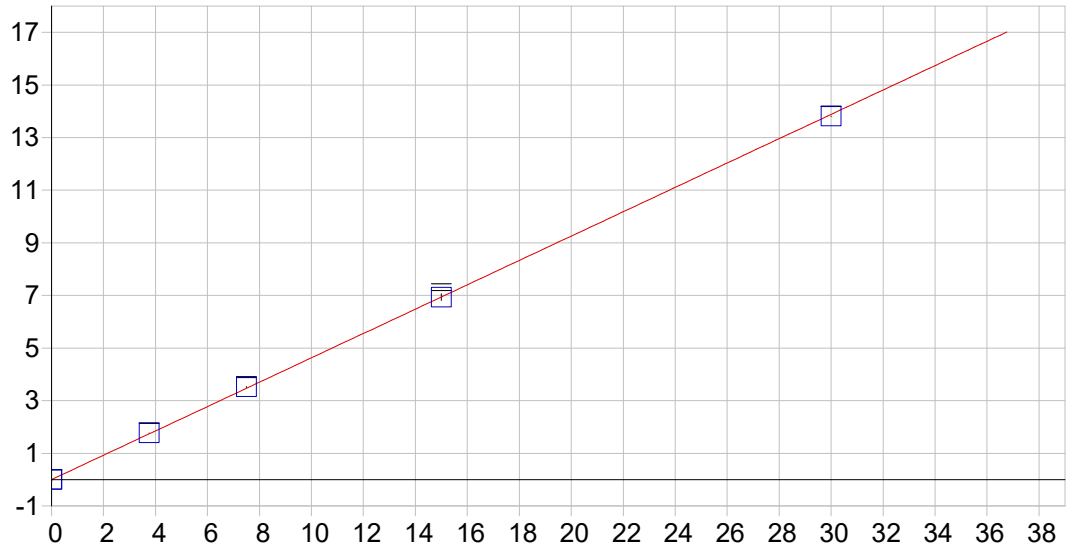
Fe 259.837 {130}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000159	Re-Slope:	1.000000
A1 (Gain):	0.020604	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999837	Status:	OK.
Std Error of Est:	0.000163		
Predicted MDL:	0.036143		
Predicted MQL:	0.120477		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00003	-.000	.000	-.00016	.001	1
S1	.10000	.12137	.021	21.4	.00234	.000	1
S2	37.500	38.887	1.39	3.70	.80125	.003	1
S3	75.000	77.537	2.54	3.38	1.5977	.006	1
S4	150.00	153.06	3.06	2.04	3.1543	.054	1
S5	300.00	304.63	4.63	1.54	6.2779	.012	1
S6	800.00	788.35	-11.6	-1.46	16.243	.095	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



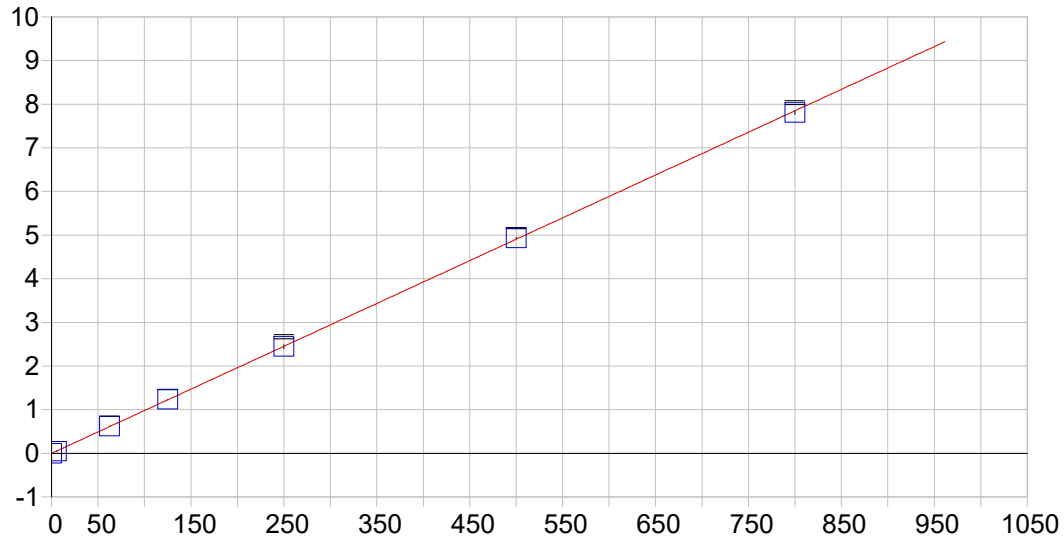
Mn 257.610 {131}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000226	Re-Slope:	1.000000
A1 (Gain):	0.462809	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999966	Status:	OK.
Std Error of Est:	0.000135		
Predicted MDL:	0.001420		
Predicted MQL:	0.004733		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00023	.000	1
S1	.01500	.01673	.002	11.5	.00797	.000	1
S2	3.7500	3.8189	.069	1.84	1.7676	.007	1
S3	7.5000	7.6060	.106	1.41	3.5204	.017	1
S4	15.000	14.980	-.020	-.134	6.9331	.130	1
S5	30.000	29.843	-.157	-.522	13.812	.007	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



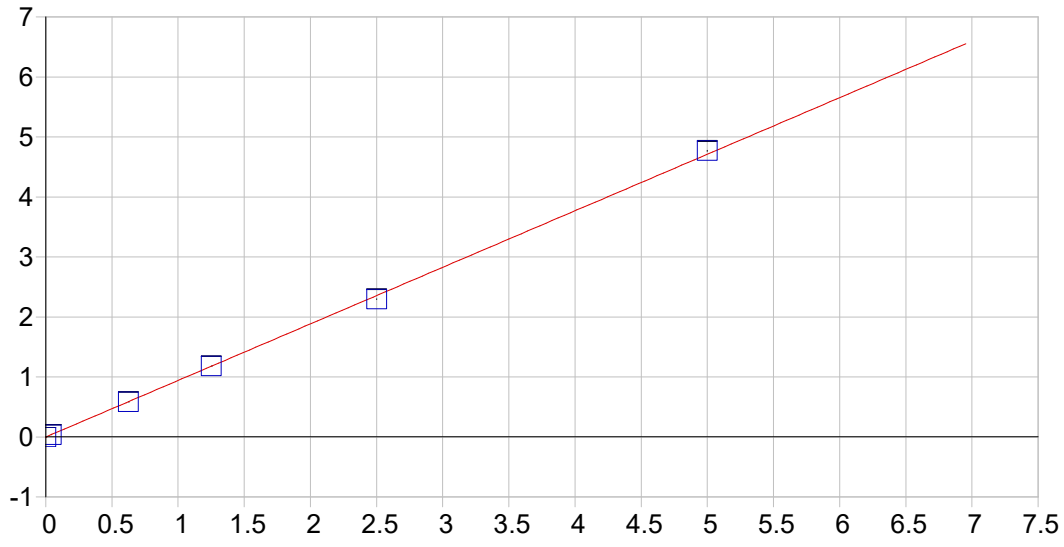
Mg 279.079 {121}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001515	Re-Slope:	1.000000
A1 (Gain):	0.009812	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999981	Status:	OK.
Std Error of Est:	0.000210		
Predicted MDL:	0.096315		
Predicted MQL:	0.321051		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00031	-.000	.000	-.00152	.000	1
S1	5.0000	5.2308	.231	4.62	.04981	.001	1
S2	62.500	63.176	.676	1.08	.61839	.001	1
S3	125.00	125.91	.906	.725	1.2339	.006	1
S4	250.00	249.38	-.620	-.248	2.4455	.048	1
S5	500.00	502.99	2.99	.598	4.9340	.014	1
S6	800.00	795.82	-4.18	-.523	7.8074	.041	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



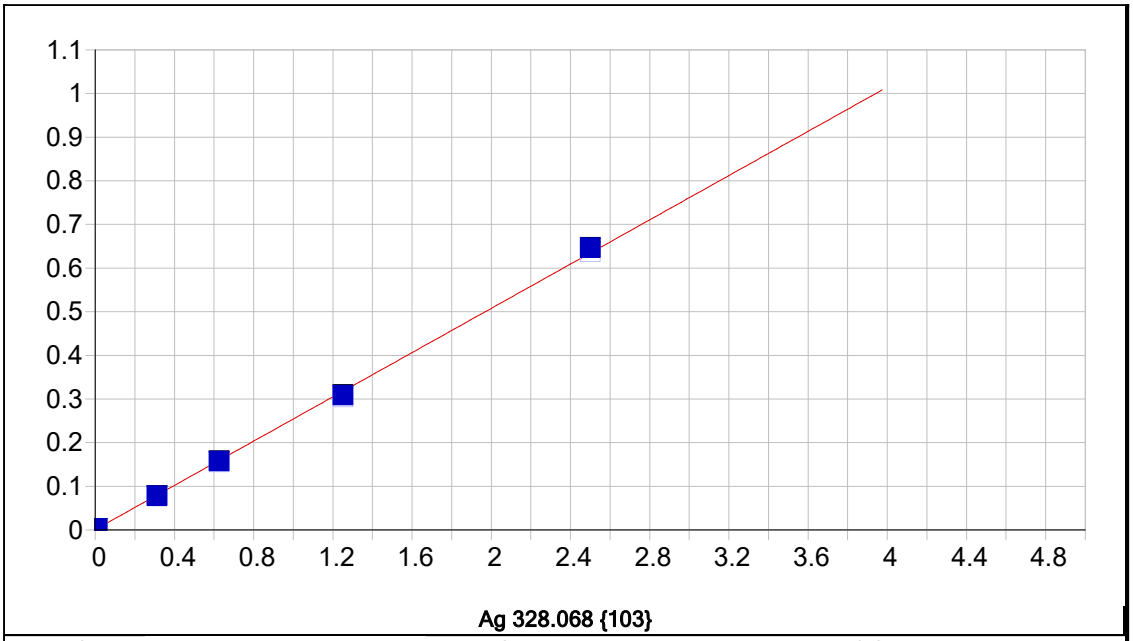
Ni 231.604 {446}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001258	Re-Slope:	1.000000
A1 (Gain):	0.942511	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999874	Status:	OK.
Std Error of Est:	0.000356		
Predicted MDL:	0.000650		
Predicted MQL:	0.002168		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00126	.001	1
S1	.04000	.04094	.001	2.35	.03733	.000	1
S2	.62500	.62074	-.004	-.682	.58379	.000	1
S3	1.2500	1.2550	.005	.404	1.1816	.001	1
S4	2.5000	2.4374	-.063	-2.50	2.2960	.003	1
S5	5.0000	5.0609	.061	1.22	4.7687	.009	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



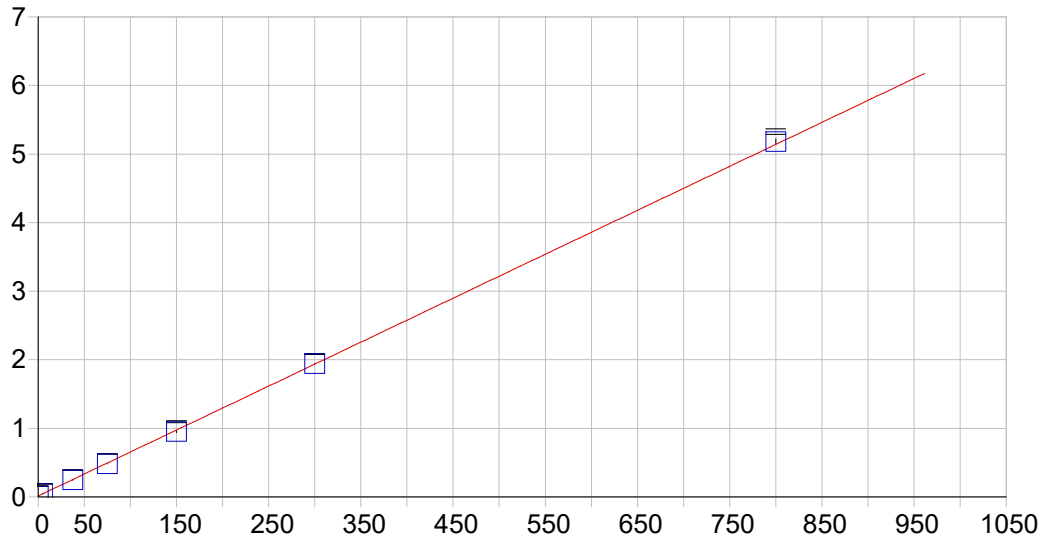
Ag 328.068 {103}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000720	Re-Slope:	1.000000
A1 (Gain):	0.253538	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999779	Status:	OK.
Std Error of Est:	0.000044		
Predicted MDL:	0.001501		
Predicted MQL:	0.005003		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00072	.000	1
S1	.01000	.00980	-.000	-2.03	.00320	.000	1
S2	.31250	.30606	-.006	-2.06	.07718	.000	1
S3	.62500	.61847	-.007	-1.05	.15524	.001	1
S4	1.2500	1.2160	-.034	-2.72	.30445	.001	1
S5	2.5000	2.5472	.047	1.89	.63740	.001	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

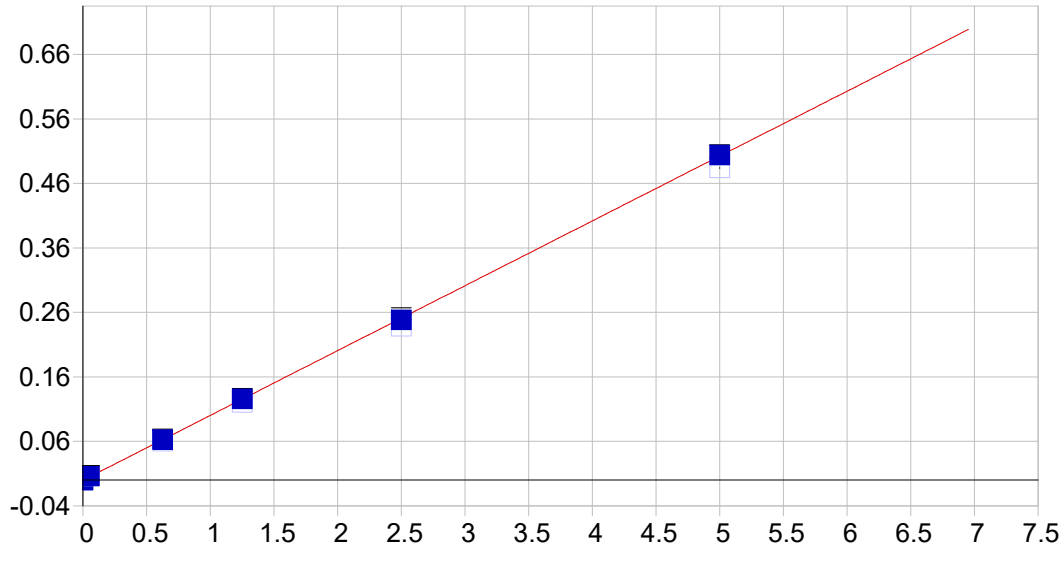


Na 818.326 { 41}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.014106	Re-Slope:	1.000000
A1 (Gain):	0.006408	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999918	Status:	OK.
Std Error of Est:	0.000254		
Predicted MDL:	0.802267		
Predicted MQL:	2.674224		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00037	.000	.000	.01411	.005	1
S1	5.0000	4.9699	-.030	-.602	.04596	.006	1
S2	37.500	36.499	-1.00	-2.67	.24801	.005	1
S3	75.000	73.037	-1.96	-2.62	.48216	.004	1
S4	150.00	146.22	-3.78	-2.52	.95112	.013	1
S5	300.00	300.43	.430	.143	1.9394	.005	1
S6	800.00	806.35	6.35	.793	5.1815	.040	1



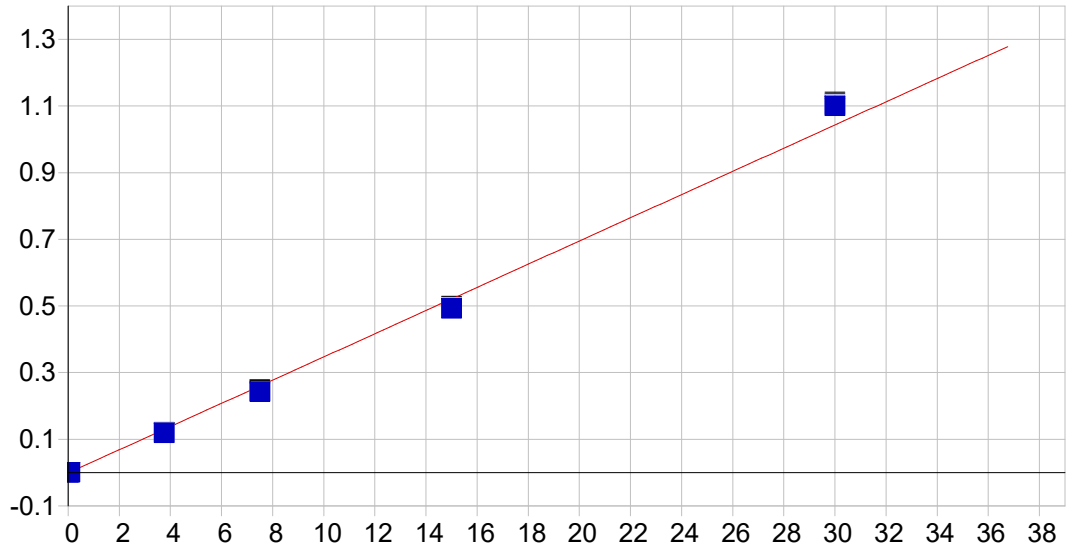
V 292.402 {115}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000210	Re-Slope:	1.000000
A1 (Gain):	0.100527	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999791	Status:	OK.
Std Error of Est:	0.000052		
Predicted MDL:	0.009268		
Predicted MQL:	0.030895		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00021	.000	1
S1	.05000	.06274	.013	25.5	.00608	.001	1
S2	.62500	.62384	-.001	-.185	.05999	.001	1
S3	1.2500	1.2505	.000	.036	.12046	.001	1
S4	2.5000	2.4716	-.028	-1.14	.23818	.004	1
S5	5.0000	5.0159	.016	.318	.48388	.000	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



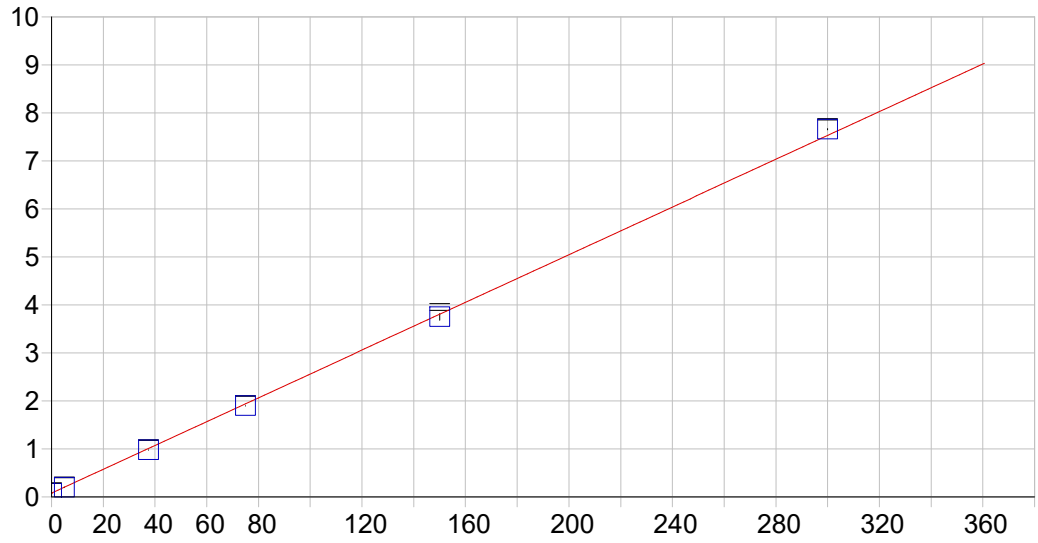
Zn 213.856 {158}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001112	Re-Slope:	1.000000
A1 (Gain):	0.034810	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998287	Status:	OK.
Std Error of Est:	0.000146		
Predicted MDL:	0.012124		
Predicted MQL:	0.040414		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00003	.000	.000	-.00111	.000	1
S1	.06000	.04210	-.018	-29.8	.00036	.001	1
S2	3.7500	3.4468	-.303	-8.08	.11951	.001	1
S3	7.5000	7.0070	-.493	-6.57	.24408	.004	1
S4	15.000	14.184	-.816	-5.44	.49517	.004	1
S5	30.000	31.630	1.63	5.43	1.1050	.007	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



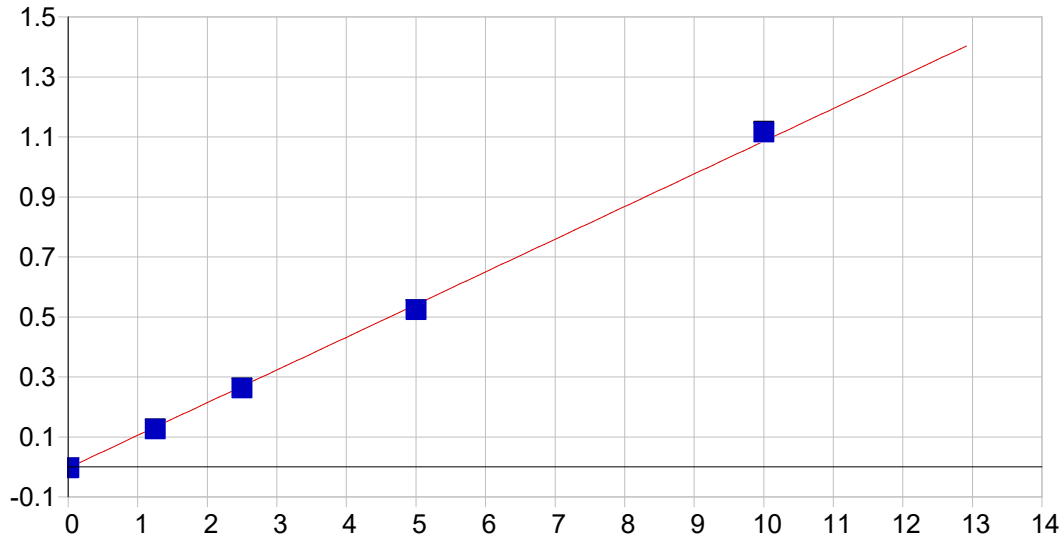
K 769.896 { 44}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.077346	Re-Slope:	1.000000
A1 (Gain):	0.024844	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999813	Status:	OK.
Std Error of Est:	0.000991		
Predicted MDL:	0.162277		
Predicted MQL:	0.540923		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00038	.000	.000	.07736	.006	1
S1	5.0000	4.8971	-.103	-2.06	.19901	.006	1
S2	37.500	36.211	-1.29	-3.44	.97697	.003	1
S3	75.000	73.238	-1.76	-2.35	1.8969	.006	1
S4	150.00	147.85	-2.15	-1.43	3.7506	.069	1
S5	300.00	305.30	5.30	1.77	7.6624	.013	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



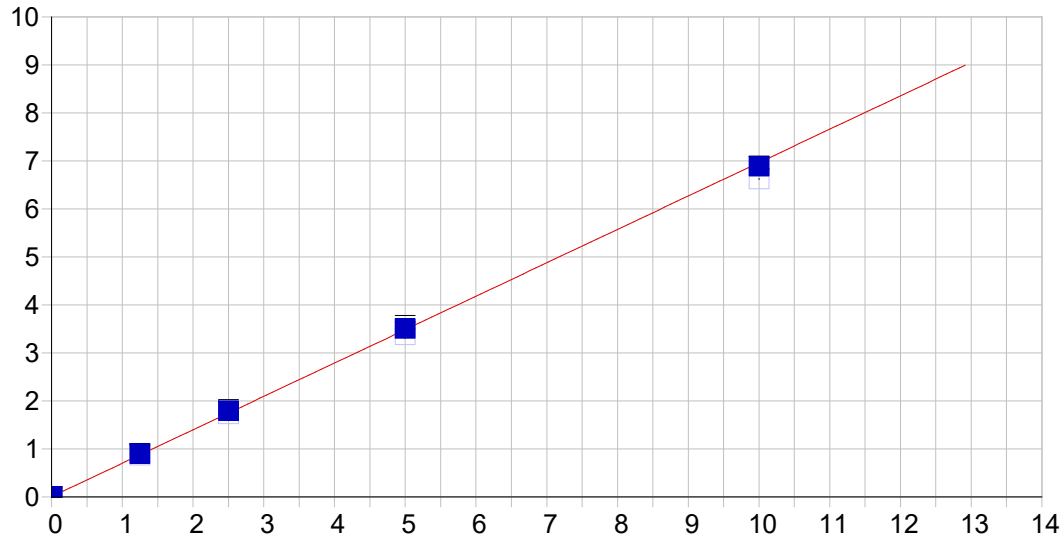
P 177.495 {490}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.003606	Re-Slope:	1.000000
A1 (Gain):	0.108914	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999540	Status:	OK.
Std Error of Est:	0.000055		
Predicted MDL:	0.002310		
Predicted MQL:	0.007699		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00361	.000	1
S1	.01000	.00967	-.000	-3.33	-.00255	.000	1
S2	1.2500	1.1873	-.063	-5.01	.12551	.000	1
S3	2.5000	2.4420	-.058	-2.32	.26197	.001	1
S4	5.0000	4.8424	-.158	-3.15	.52301	.001	1
S5	10.000	10.279	.279	2.79	1.1143	.004	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



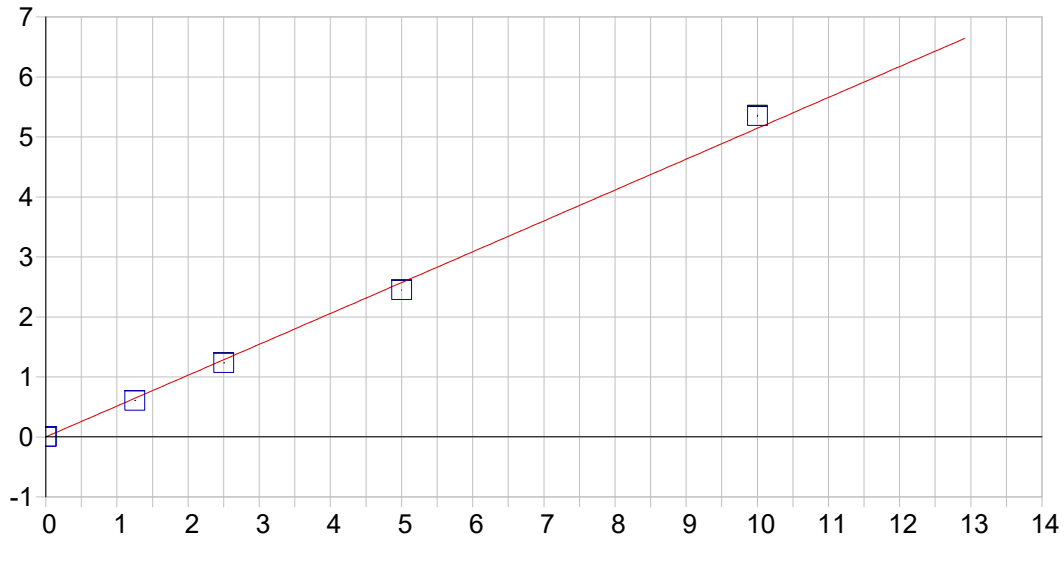
B 249.678 {135}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.006362	Re-Slope:	1.000000
A1 (Gain):	0.695827	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999482	Status:	OK.
Std Error of Est:	0.000361		
Predicted MDL:	0.002653		
Predicted MQL:	0.008845		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00637	.002	1
S1	.01000	-.00184	-.012	-118.	.00504	.002	1
S2	1.2500	1.2828	.033	2.63	.86591	.007	1
S3	2.5000	2.5651	.065	2.60	1.7251	.026	1
S4	5.0000	5.0263	.026	.527	3.3715	.068	1
S5	10.000	9.8880	-.112	-1.12	6.6221	.008	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



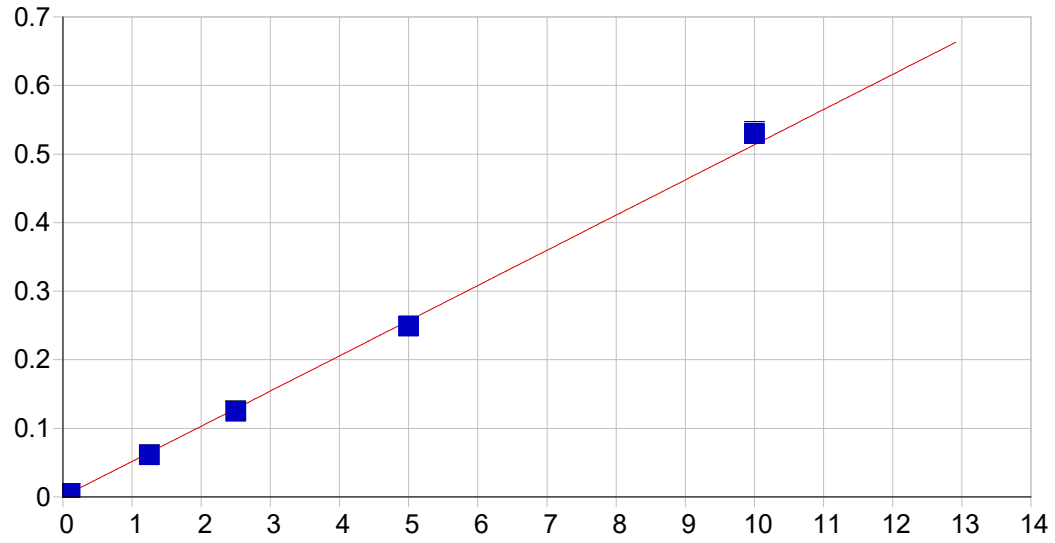
Mo 202.030 {467}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000060	Re-Slope:	1.000000
A1 (Gain):	0.514327	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999031	Status:	OK.
Std Error of Est:	0.000380		
Predicted MDL:	0.000669		
Predicted MQL:	0.002230		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00006	.000	1
S1	.01000	.01089	.001	8.95	.00566	.000	1
S2	1.2500	1.1787	-.071	-5.71	.60628	.000	1
S3	2.5000	2.4008	-.099	-3.97	1.2349	.002	1
S4	5.0000	4.7599	-.240	-4.80	2.4482	.002	1
S5	10.000	10.410	.410	4.10	5.3540	.011	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



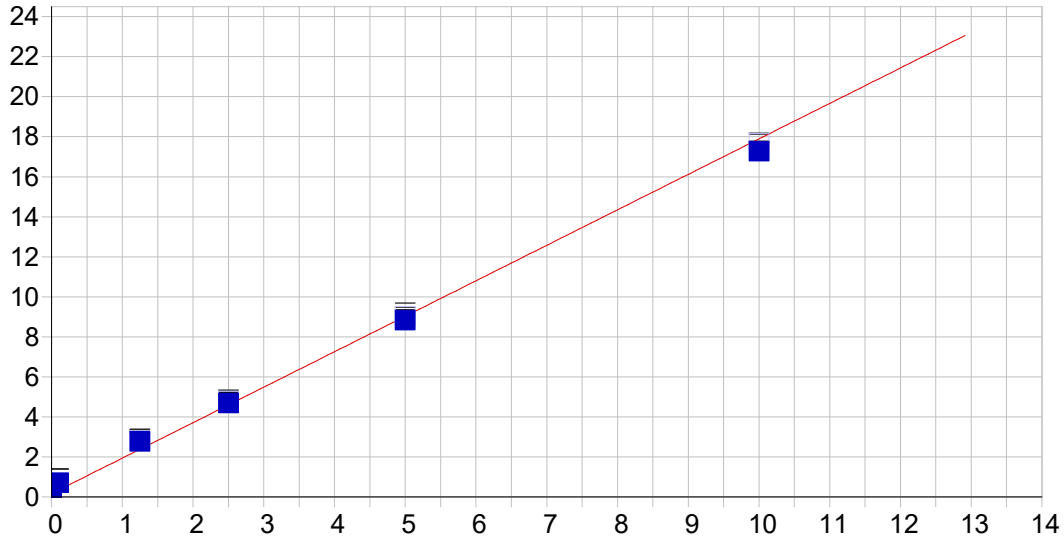
S 182.034 {485}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000493	Re-Slope:	1.000000
A1 (Gain):	0.051305	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999414	Status:	OK.
Std Error of Est:	0.000094		
Predicted MDL:	0.005236		
Predicted MQL:	0.017452		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	.00049	.000	1
S1	.10000	.09031	-.010	-9.69	.00513	.000	1
S2	1.2500	1.1800	-.070	-5.60	.06124	.000	1
S3	2.5000	2.4215	-.078	-3.14	.12514	.000	1
S4	5.0000	4.8424	-.158	-3.15	.24976	.000	1
S5	10.000	10.316	.316	3.16	.53139	.001	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



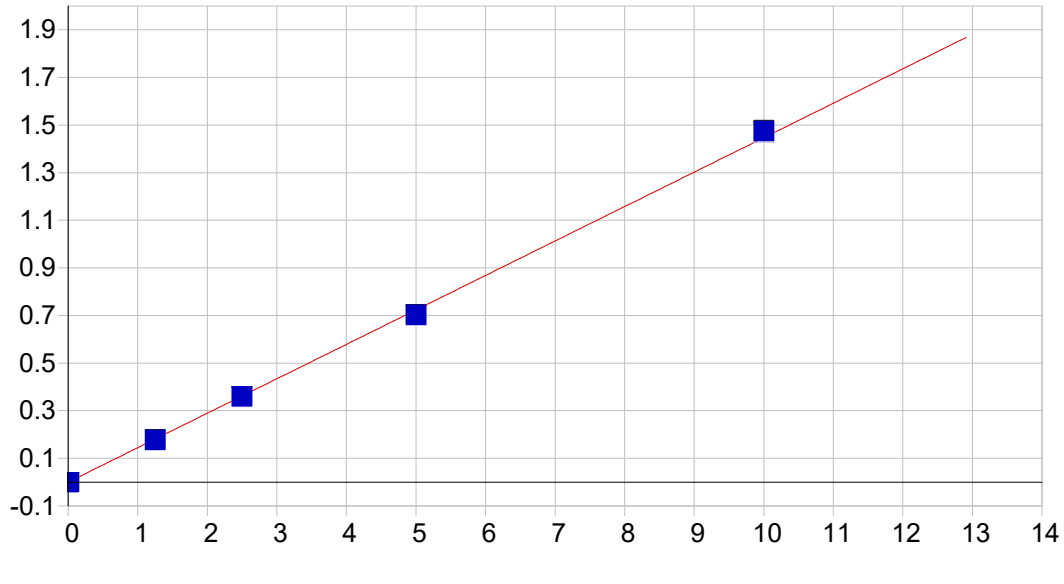
Si 251.611 {134}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.164857	Re-Slope:	1.000000
A1 (Gain):	1.772742	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.988066	Status:	OK.
Std Error of Est:	0.015018		
Predicted MDL:	0.000946		
Predicted MQL:	0.003154		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00022	-.000	.000	.16447	.003	1
S1	.10000	.30592	.206	206.	.70968	.194	1
S2	1.2500	1.4690	.219	17.5	2.8193	.079	1
S3	2.5000	2.5471	.047	1.88	4.7808	.064	1
S4	5.0000	4.8835	-.117	-2.33	9.0232	.167	1
S5	10.000	9.6462	-.354	-3.54	17.668	.027	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



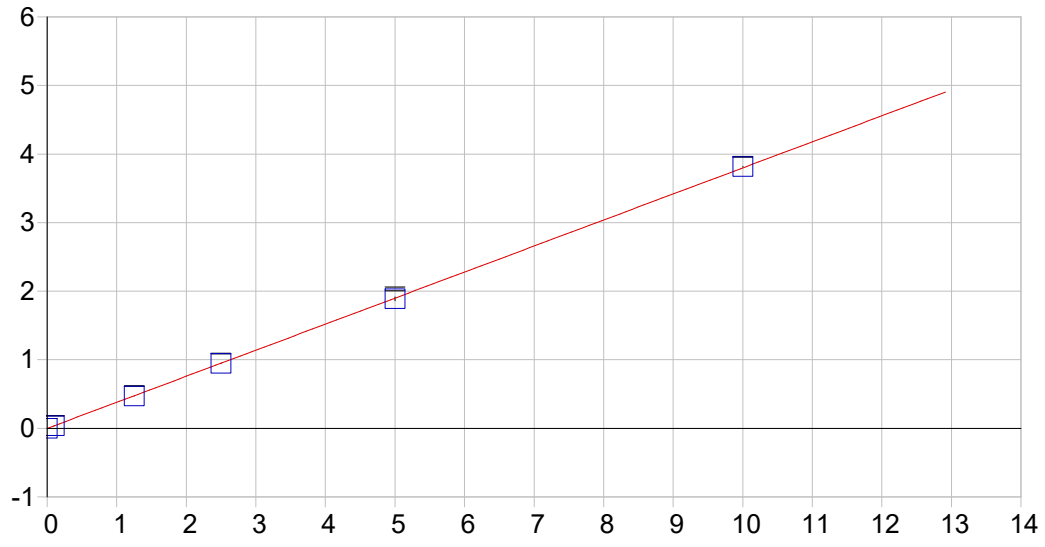
Sn 189.989 {478}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000003	Re-Slope:	1.000000
A1 (Gain):	0.144693	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999769	Status:	OK.
Std Error of Est:	0.000043		
Predicted MDL:	0.001676		
Predicted MQL:	0.005585		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00000	.000	1
S1	.00700	.00724	.000	3.47	.00101	.000	1
S2	1.2500	1.2245	-.025	-2.04	.17628	.001	1
S3	2.5000	2.4849	-.015	-.603	.35774	.000	1
S4	5.0000	4.8517	-.148	-2.97	.69839	.002	1
S5	10.000	10.189	.189	1.89	1.4670	.004	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



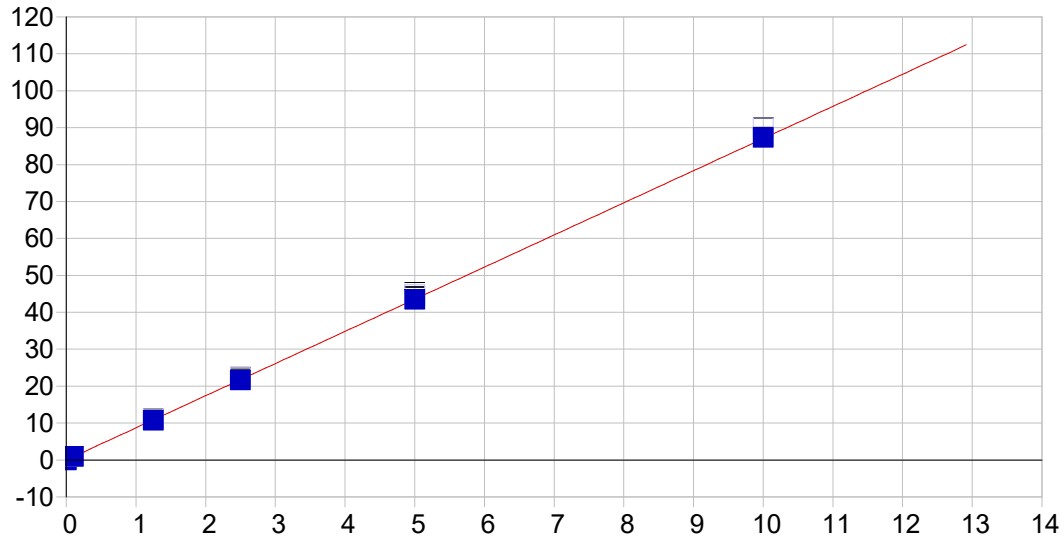
Ti 336.121 {100}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000042	Re-Slope:	1.000000
A1 (Gain):	0.379794	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999989	Status:	OK.
Std Error of Est:	0.000094		
Predicted MDL:	0.003669		
Predicted MQL:	0.012231		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00004	.002	1
S1	.10000	.09999	-.000	-.014	.03793	.001	1
S2	1.2500	1.2434	-.007	-.525	.47221	.002	1
S3	2.5000	2.4877	-.012	-.491	.94479	.005	1
S4	5.0000	4.9754	-.025	-.493	1.8896	.027	1
S5	10.000	10.043	.043	.435	3.8144	.005	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



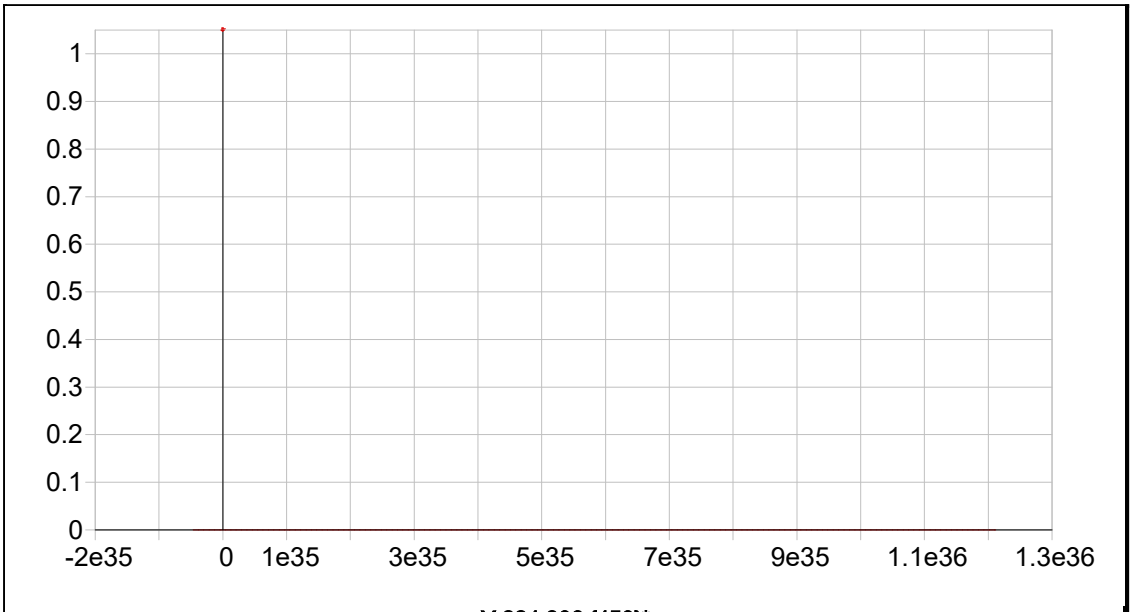
Sr 407.771 { 83}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.003722	Re-Slope:	1.000000
A1 (Gain):	8.705836	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999987	Status:	OK.
Std Error of Est:	0.002466		
Predicted MDL:	0.000269		
Predicted MQL:	0.000897		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00374	.001	1
S1	.10000	.10403	.004	4.03	.90284	.007	1
S2	1.2500	1.2331	-.017	-1.35	11.058	.041	1
S3	2.5000	2.4871	-.013	-.515	22.302	.084	1
S4	5.0000	4.9982	-.002	-.036	44.815	.548	1
S5	10.000	10.028	.028	.277	89.908	.078	1

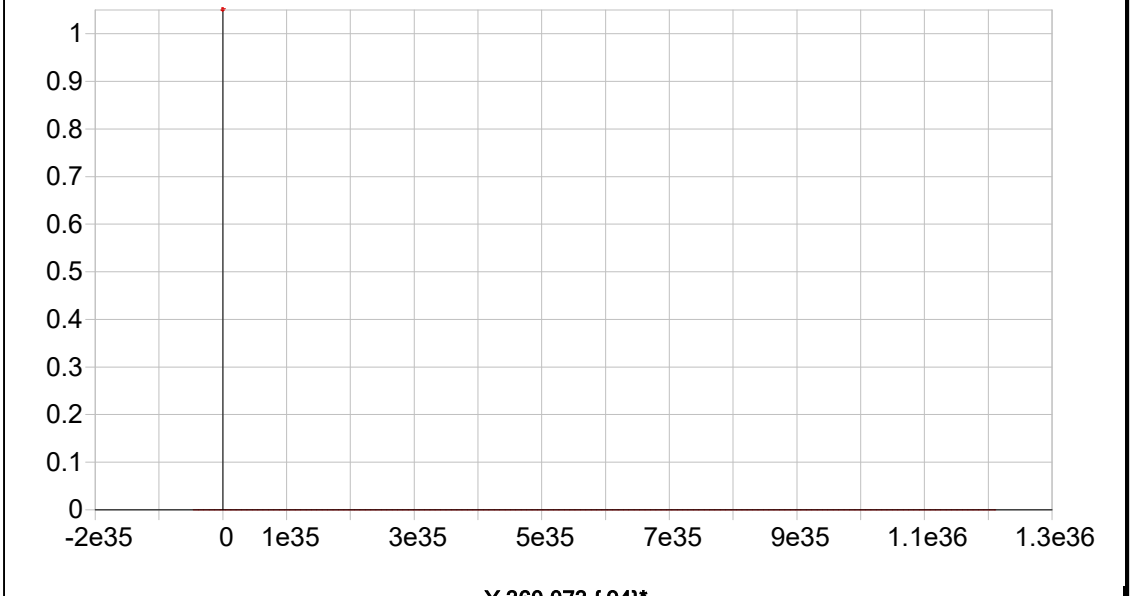
Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



Y 224.306 {450}*

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

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



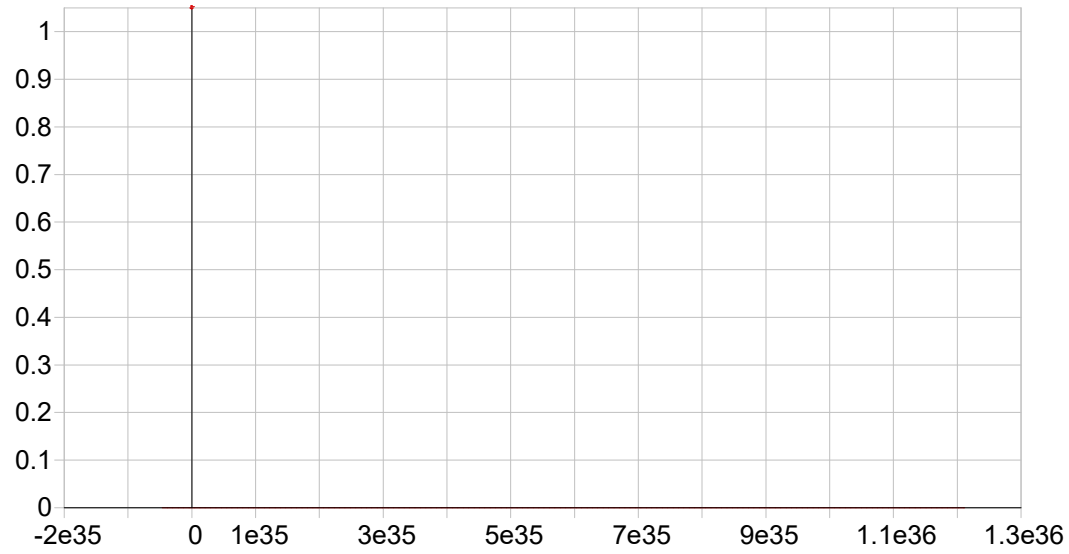
Y 360.073 { 94}*

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

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

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

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



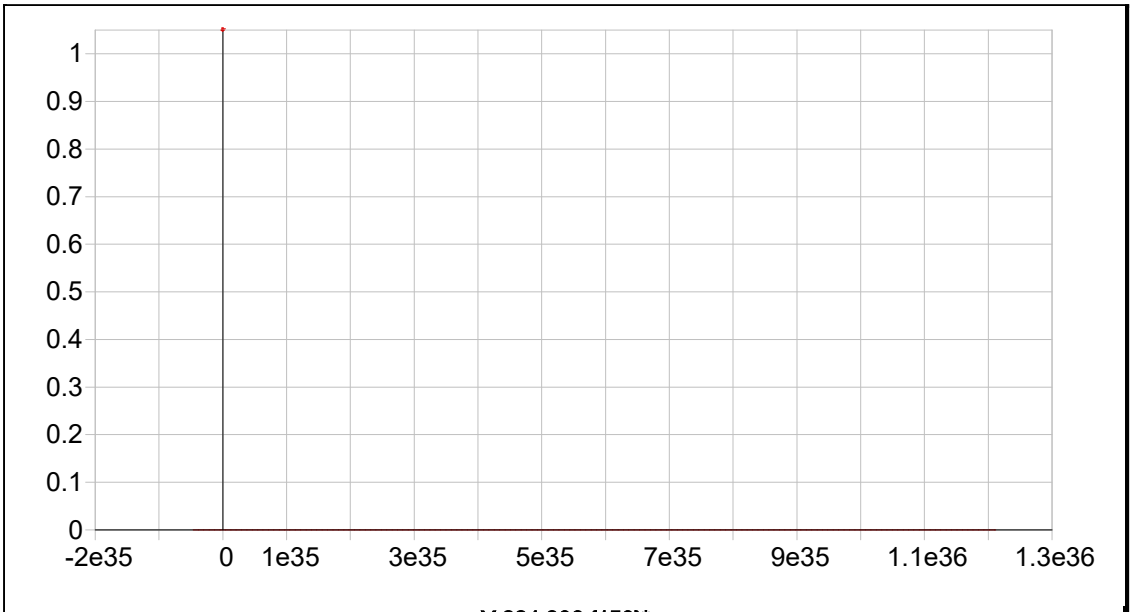
Y 371.030 { 91}*

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

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

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

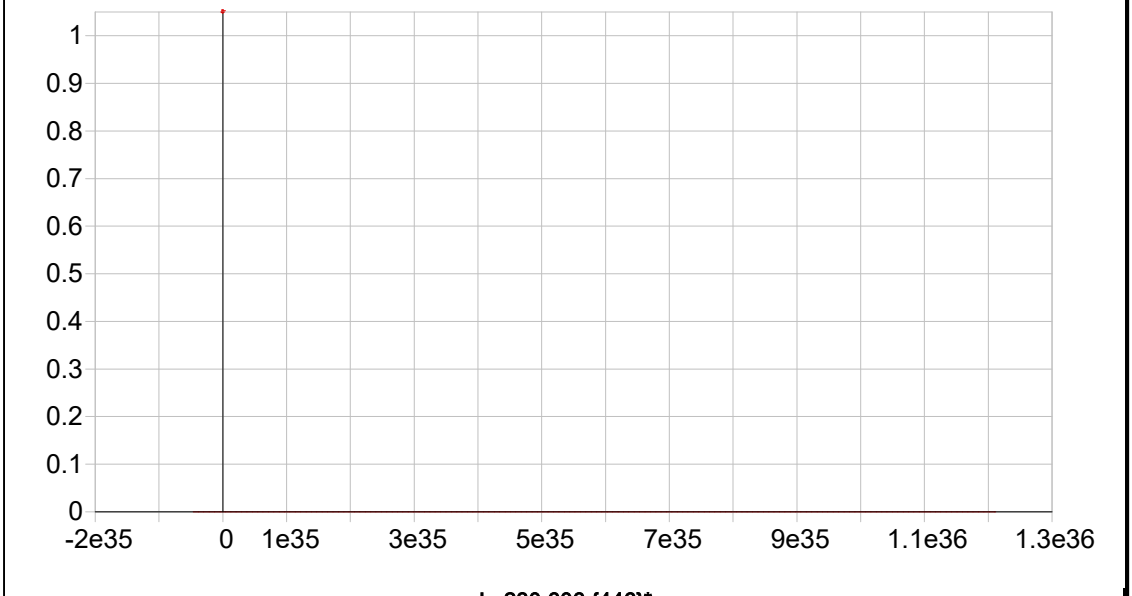
Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



Y 224.306 {150}*

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

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



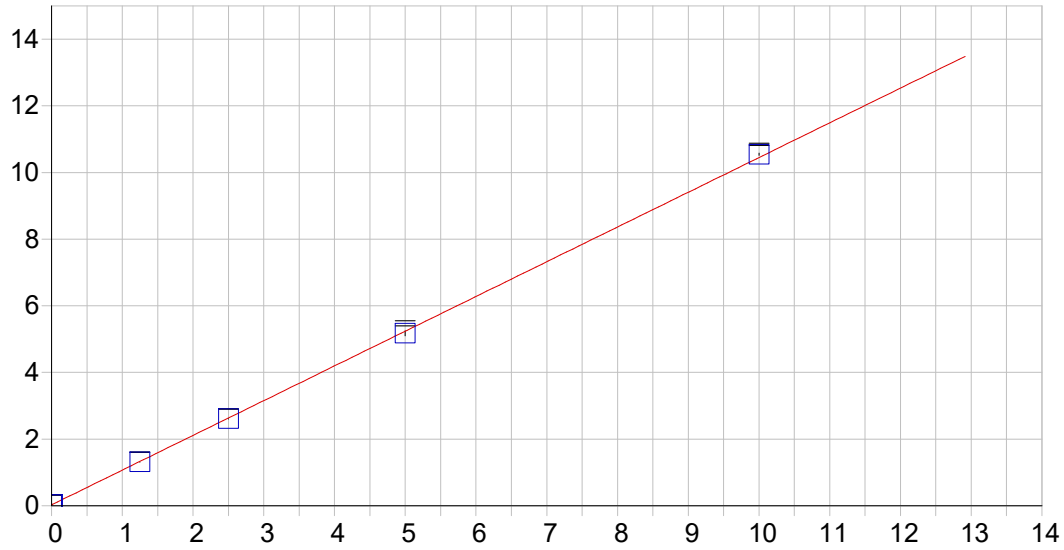
In 230.606 {446}*

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

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

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

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



Li 670.784 { 50}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.027254	Re-Slope:	1.000000
A1 (Gain):	1.042196	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999943	Status:	OK.
Std Error of Est:	0.000229		
Predicted MDL:	0.004384		
Predicted MQL:	0.014613		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.02725	.004	1
S5	10.000	10.094	.094	.942	10.547	.033	1
S4	5.0000	4.9437	-.056	-1.13	5.1796	.078	1
S3	2.5000	2.4767	-.023	-.933	2.6084	.006	1
S2	1.2500	1.2337	-.016	-1.31	1.3130	.004	1
S1	.01500	.01673	.002	11.5	.04469	.003	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: S0 Acquired: 12/23/2024 13:14:46 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) 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	.70768	-.00034	.00014	-.00025	.00016	-.00519	.05997	.00163
Stddev	.19001	.00029	.00063	.00019	.00032	.00177	.01352	.00112
%RSD	26.850	85.141	461.10	75.935	206.33	34.166	22.540	68.875
#1	.51993	-.00006	.00022	-.00026	-.00005	-.00562	.07097	.00166
#2	.89988	-.00032	.00071	-.00044	-.00001	-.00670	.06407	.00273
#3	.70324	-.00064	-.00053	-.00006	.00053	-.00324	.04488	.00049

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	.00064	.00802	.00023	-.00036	.00147	-.00016	.00023	-.00152
Stddev	.00024	.00084	.00028	.00028	.00189	.00079	.00028	.00026
%RSD	38.236	10.441	123.12	76.052	128.86	493.88	123.53	17.300
#1	.00090	.00830	.00023	-.00005	.00210	-.00031	.00051	-.00131
#2	.00041	.00868	.00052	-.00058	.00296	.00070	-.00004	-.00181
#3	.00060	.00708	-.00005	-.00046	-.00066	-.00086	.00020	-.00143

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	-.00126	.00072	.01411	-.00021	-.00111	.07736	-.00361	.00637
Stddev	.00050	.00020	.00454	.00007	.00006	.00617	.00015	.00178
%RSD	39.834	27.169	32.194	35.390	5.0425	7.9755	4.0572	27.994
#1	-.00154	.00077	.00963	-.00030	-.00106	.07547	-.00344	.00445
#2	-.00155	.00050	.01871	-.00016	-.00117	.08425	-.00372	.00798
#3	-.00068	.00088	.01398	-.00018	-.00110	.07235	-.00366	.00667

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	.00006	.00049	.16447	.00000	-.00004	-.00374	.02725
Stddev	.00037	.00023	.00263	.00007	.00161	.00108	.00374
%RSD	615.56	46.421	1.6015	2062.3	3848.8	28.978	13.718
#1	.00018	.00036	.16470	.00003	.00039	-.00392	.02999
#2	-.00035	.00036	.16698	.00005	-.00183	-.00473	.02877
#3	.00035	.00076	.16172	-.00007	.00132	-.00258	.02299

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: S0 Acquired: 12/23/2024 13:14:46 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) 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	1973.1	25641.	2057.2	1695.9	1769.4
Stddev	1.7	420.	40.0	24.4	3.3
%RSD	.08470	1.6362	1.9451	1.4406	.18520
#1	1975.0	26075.	2073.7	1722.2	1765.6
#2	1971.9	25238.	2011.6	1673.9	1770.9
#3	1972.4	25610.	2086.4	1691.6	1771.5

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: S1 Acquired: 12/23/2024 13:18:52 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) 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	1.5820	.00181	.00307	.00221	.00761	.02144	.92263	.05311
Stddev	.2244	.00010	.00075	.00040	.00007	.00265	.00446	.00047
%RSD	14.186	5.7191	24.336	17.979	.89782	12.346	.48377	.88778
#1	1.7598	.00187	.00292	.00242	.00767	.01903	.92440	.05341
#2	1.3298	.00186	.00241	.00175	.00754	.02102	.92593	.05257
#3	1.6564	.00169	.00388	.00247	.00763	.02427	.91755	.05336

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	.02165	.29592	.00246	.05750	.00700	.00234	.00797	.04981
Stddev	.00054	.00136	.00020	.00103	.00109	.00031	.00021	.00107
%RSD	2.5035	.46022	8.0777	1.7839	15.619	13.229	2.6040	2.1558
#1	.02150	.29526	.00248	.05837	.00814	.00206	.00796	.04947
#2	.02226	.29500	.00226	.05637	.00689	.00267	.00776	.04895
#3	.02120	.29748	.00265	.05775	.00596	.00229	.00818	.05102

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	.03733	.00320	.04596	.00608	.00036	.19901	-.00255	.00504
Stddev	.00019	.00026	.00557	.00102	.00052	.00569	.00008	.00183
%RSD	.51293	8.1318	12.125	16.756	144.49	2.8571	3.3172	36.217
#1	.03746	.00319	.05238	.00720	.00096	.20551	-.00261	.00655
#2	.03711	.00295	.04250	.00584	.00004	.19658	-.00245	.00301
#3	.03742	.00347	.04298	.00521	.00008	.19494	-.00258	.00557

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	.00566	.00513	.70968	.00101	.03793	.90284	.04469
Stddev	.00021	.00028	.19423	.00024	.00099	.00737	.00271
%RSD	3.7365	5.3727	27.368	24.063	2.6216	.81599	6.0705
#1	.00560	.00504	.60388	.00128	.03685	.91134	.04759
#2	.00549	.00490	.59133	.00094	.03815	.89870	.04221
#3	.00590	.00543	.93384	.00081	.03880	.89847	.04427

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: S1 Acquired: 12/23/2024 13:18:52 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) 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	1994.3	25796.	2073.0	1701.0	1804.2
Stddev	2.3	141.	21.0	7.1	2.0
%RSD	.11614	.54656	1.0121	.41528	.11158
#1	1995.1	25948.	2048.8	1708.7	1804.7
#2	1991.7	25670.	2084.1	1699.3	1802.0
#3	1996.2	25769.	2086.1	1694.9	1805.9

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: S2 Acquired: 12/23/2024 13:23:00 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) 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	158.99	.10164	2.1475	.09002	.15981	4.5435	10.636	1.2565
Stddev	.37	.00032	.0028	.00028	.00055	.0064	.006	.0086
%RSD	.23046	.31539	.13124	.31178	.34300	.14045	.05518	.68764
#1	159.39	.10128	2.1460	.09034	.15920	4.5442	10.630	1.2579
#2	158.69	.10180	2.1456	.08981	.15996	4.5495	10.641	1.2644
#3	158.87	.10186	2.1507	.08992	.16027	4.5368	10.637	1.2473

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	2.6491	3.6213	.93598	.71475	.72761	.80125	1.7676	.61839
Stddev	.0060	.0103	.00165	.00127	.00378	.00255	.0074	.00058
%RSD	.22472	.28298	.17587	.17787	.51977	.31801	.42008	.09348
#1	2.6492	3.6234	.93787	.71414	.72559	.80337	1.7630	.61772
#2	2.6431	3.6304	.93488	.71389	.73198	.80196	1.7762	.61871
#3	2.6550	3.6102	.93518	.71621	.72528	.79842	1.7638	.61874

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	.58379	.07718	.24801	.05999	.11951	.97697	.12551	.86591
Stddev	.00038	.00010	.00538	.00099	.00132	.00265	.00040	.00654
%RSD	.06489	.13203	2.1677	1.6422	1.1022	.27128	.32171	.75540
#1	.58423	.07715	.24468	.05951	.11938	.97990	.12510	.86834
#2	.58359	.07709	.24514	.06112	.11826	.97628	.12552	.87090
#3	.58356	.07729	.25421	.05933	.12089	.97473	.12591	.85851

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	.60628	.06124	2.8193	.17628	.47221	11.058	1.3130
Stddev	.00011	.00028	.0787	.00067	.00222	.041	.0042
%RSD	.01876	.45521	2.7902	.38221	.47057	.36902	.32260
#1	.60640	.06154	2.8989	.17665	.47041	11.026	1.3090
#2	.60625	.06100	2.8175	.17550	.47469	11.104	1.3175
#3	.60618	.06118	2.7416	.17669	.47153	11.043	1.3125

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: S2 Acquired: 12/23/2024 13:23:00 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) 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	1942.5	25366.	2090.0	1658.5	1702.8
Stddev	.6	94.	8.9	15.3	3.3
%RSD	.03338	.37229	.42678	.92523	.19305
#1	1943.2	25320.	2083.9	1654.1	1704.0
#2	1941.9	25474.	2085.8	1675.5	1705.4
#3	1942.3	25302.	2100.2	1645.8	1699.1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: S3 Acquired: 12/23/2024 13:26:51 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) 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	315.81	.20508	4.3345	.18300	.32512	9.1077	21.304	2.4911
Stddev	.86	.00088	.0013	.00053	.00089	.0345	.056	.0315
%RSD	.27376	.42785	.03034	.29159	.27326	.37839	.26325	1.2643
#1	315.23	.20471	4.3330	.18273	.32492	9.1275	21.345	2.5272
#2	315.40	.20445	4.3348	.18265	.32434	9.0679	21.240	2.4693
#3	316.81	.20609	4.3356	.18361	.32609	9.1278	21.326	2.4768

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	5.3317	7.1963	1.8499	1.4316	1.4386	1.5977	3.5204	1.2339
Stddev	.0104	.0349	.0019	.0014	.0044	.0062	.0166	.0055
%RSD	.19541	.48478	.10272	.09480	.30774	.38553	.47243	.44765
#1	5.3229	7.2193	1.8509	1.4321	1.4435	1.5997	3.5281	1.2368
#2	5.3289	7.1562	1.8512	1.4301	1.4351	1.5909	3.5013	1.2276
#3	5.3432	7.2136	1.8478	1.4327	1.4371	1.6027	3.5317	1.2374

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	1.1816	.15524	.48216	.12046	.24408	1.8969	.26197	1.7251
Stddev	.0013	.00061	.00355	.00127	.00407	.0060	.00065	.0261
%RSD	.11356	.39321	.73629	1.0509	1.6686	.31505	.24916	1.5135
#1	1.1801	.15491	.48506	.12178	.23946	1.8999	.26121	1.7552
#2	1.1820	.15595	.48322	.12033	.24715	1.8900	.26231	1.7099
#3	1.1827	.15487	.47820	.11926	.24562	1.9008	.26238	1.7101

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	1.2349	.12514	4.7808	.35774	.94479	22.302	2.6084
Stddev	.0022	.00018	.0638	.00041	.00514	.084	.0062
%RSD	.17641	.14180	1.3340	.11411	.54430	.37712	.23831
#1	1.2332	.12522	4.8544	.35786	.95057	22.390	2.6122
#2	1.2340	.12494	4.7431	.35729	.94305	22.222	2.6013
#3	1.2373	.12526	4.7449	.35808	.94074	22.293	2.6118

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: S3 Acquired: 12/23/2024 13:26:51 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) 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	1892.2	25131.	2092.8	1617.5	1650.8
Stddev	1.4	133.	15.7	10.9	1.0
%RSD	.07322	.53051	.74986	.67645	.05805
#1	1893.8	25257.	2074.7	1630.0	1650.1
#2	1891.1	24991.	2101.3	1610.1	1650.5
#3	1891.9	25146.	2102.4	1612.2	1651.9

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: S4 Acquired: 12/23/2024 13:30:38 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) 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	612.29	.39682	8.4889	.35987	.64746	18.214	42.596	4.8787
Stddev	.38	.00066	.0103	.00104	.00151	.292	.742	.0992
%RSD	.06242	.16642	.12111	.28870	.23301	1.6027	1.7413	2.0330
#1	612.51	.39738	8.4947	.36104	.64597	18.417	43.137	4.9660
#2	611.85	.39698	8.4771	.35904	.64741	18.345	42.901	4.8993
#3	612.52	.39609	8.4950	.35955	.64899	17.880	41.751	4.7709

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	10.316	14.252	3.5511	2.7573	2.8593	3.1543	6.9331	2.4455
Stddev	.011	.216	.0051	.0055	.0360	.0544	.1298	.0475
%RSD	.10672	1.5159	.14407	.19861	1.2607	1.7237	1.8714	1.9425
#1	10.327	14.403	3.5483	2.7636	2.8801	3.1929	7.0322	2.4782
#2	10.305	14.349	3.5480	2.7534	2.8801	3.1779	6.9808	2.4673
#3	10.316	14.005	3.5570	2.7549	2.8176	3.0921	6.7862	2.3910

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.2960	.30445	.95112	.23818	.49517	3.7506	.52301	3.3715
Stddev	.0027	.00130	.01336	.00372	.00399	.0695	.00056	.0684
%RSD	.11915	.42771	1.4044	1.5621	.80573	1.8522	.10730	2.0284
#1	2.2990	.30546	.95979	.24022	.49402	3.8009	.52365	3.4209
#2	2.2936	.30298	.95783	.24043	.49188	3.7796	.52273	3.4002
#3	2.2956	.30492	.93574	.23389	.49961	3.6713	.52264	3.2935

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	2.4482	.24976	9.0232	.69839	1.8896	44.815	5.1796
Stddev	.0016	.00029	.1674	.00177	.0274	.548	.0777
%RSD	.06614	.11809	1.8549	.25346	1.4480	1.2234	1.5000
#1	2.4478	.25007	9.1503	.69980	1.9079	45.173	5.2234
#2	2.4468	.24948	9.0856	.69640	1.9026	45.089	5.2255
#3	2.4500	.24971	8.8336	.69897	1.8581	44.184	5.0899

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: S4 Acquired: 12/23/2024 13:30:38 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) 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	1840.7	25059.	2069.3	1564.5	1617.1
Stddev	1.1	19.	41.5	1.4	.4
%RSD	.06219	.07559	2.0037	.09139	.02169
#1	1842.0	25080.	2037.6	1566.1	1616.9
#2	1839.8	25044.	2054.2	1563.6	1617.5
#3	1840.2	25052.	2116.2	1563.8	1617.0

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: S5 Acquired: 12/23/2024 13:34:24 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) 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	1191.1	.81192	17.865	.76128	1.4187	37.356	86.627	9.6829
Stddev	2.7	.00198	.055	.00176	.0027	.034	.094	.0384
%RSD	.22715	.24340	.30602	.23065	.19361	.09097	.10811	.39675
#1	1189.7	.81146	17.832	.76107	1.4183	37.352	86.709	9.6835
#2	1194.2	.81021	17.835	.75964	1.4161	37.325	86.525	9.7210
#3	1189.4	.81408	17.928	.76313	1.4216	37.392	86.648	9.6441

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	21.326	28.453	7.2381	5.7137	5.7760	6.2779	13.812	4.9340
Stddev	.065	.037	.0179	.0220	.0116	.0117	.007	.0143
%RSD	.30403	.13090	.24678	.38437	.20035	.18647	.04965	.28965
#1	21.298	28.447	7.2357	5.7008	5.7646	6.2666	13.809	4.9261
#2	21.279	28.418	7.2216	5.7012	5.7757	6.2771	13.807	4.9255
#3	21.400	28.492	7.2571	5.7390	5.7877	6.2900	13.820	4.9505

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	4.7687	.63740	1.9394	.48388	1.1050	7.6624	1.1143	6.6221
Stddev	.0094	.00084	.0052	.00044	.0068	.0128	.0037	.0084
%RSD	.19647	.13236	.26806	.09192	.61653	.16680	.33344	.12630
#1	4.7638	.63758	1.9428	.48343	1.1024	7.6560	1.1142	6.6151
#2	4.7627	.63648	1.9334	.48432	1.0999	7.6540	1.1106	6.6197
#3	4.7795	.63814	1.9420	.48388	1.1128	7.6771	1.1180	6.6313

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	5.3540	.53139	17.668	1.4670	3.8144	89.908	10.547
Stddev	.0106	.00141	.027	.0043	.0054	.078	.033
%RSD	.19809	.26491	.15534	.29500	.14160	.08658	.31474
#1	5.3570	.53101	17.681	1.4665	3.8133	89.880	10.561
#2	5.3423	.53022	17.685	1.4629	3.8097	89.847	10.510
#3	5.3629	.53295	17.636	1.4715	3.8203	89.996	10.571

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: S5 Acquired: 12/23/2024 13:34:24 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) 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	1634.7	23577.	2036.8	1373.0	1480.6
Stddev	7.0	32.	6.9	5.4	6.2
%RSD	.42581	.13406	.33647	.39292	.42003
#1	1631.9	23549.	2035.5	1369.6	1480.6
#2	1642.6	23611.	2030.6	1379.2	1486.8
#3	1629.5	23570.	2044.2	1370.2	1474.3

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: S6 Acquired: 12/23/2024 13:38:17 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) 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	96.525	45.574	16.243	7.8074	5.1815
Stddev	.559	.315	.095	.0410	.0403
%RSD	.57887	.69185	.58431	.52533	.77686
#1	96.948	45.768	16.294	7.8359	5.2229
#2	95.892	45.210	16.134	7.7604	5.1425
#3	96.736	45.744	16.302	7.8259	5.1791

Int. Std.	Y_3710
Units	Cts/S
Avg	1999.3
Stddev	14.5
%RSD	.72647
#1	1983.3
#2	2011.7
#3	2003.0

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: ICV001 Acquired: 12/23/2024 13:56:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV001 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.097705	1.009504	.9904277	.9805424	.9066308	2.443882
Stddev	.002451	.004636	.0032467	.0029034	.0033667	.025575
%RSD	.2233201	.4592311	.3278049	.2960991	.3713419	1.046477
#1	1.099905	1.014729	.9927212	.9798775	.9029474	2.435952
#2	1.098146	1.007902	.9918492	.9780292	.9095491	2.423212
#3	1.095063	1.005881	.9867127	.9837206	.9073958	2.472483

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5206880	.5265912	.5121546	10.21306	.5547057	.5097208
Stddev	.0039120	.0046471	.0002879	.05874	.0013900	.0009832
%RSD	.7513106	.8824801	.0562055	.5751161	.2505833	.1928990
#1	.5192724	.5261751	.5119337	10.17669	.5554431	.5095012
#2	.5176810	.5221661	.5124802	10.18168	.5555716	.5107953
#3	.5251108	.5314323	.5120500	10.28082	.5531023	.5088660

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5028334	10.58304	.5318669	6.327666	.5215067	.2467561
Stddev	.0142278	.03737	.0072838	.218736	.0004380	.0014089
%RSD	2.829521	.3531366	1.369473	3.456821	.0839888	.5709741
#1	.5011987	10.54076	.5237633	6.147006	.5215685	.2454262
#2	.4894936	10.59672	.5339685	6.265134	.5219106	.2482326
#3	.5178079	10.61165	.5378688	6.570858	.5210411	.2466094

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.650437	.5109738	.9069055	8.866641	F .0027338	F .0016169
Stddev	.401675	.0016811	.0077157	.091244	.0008418	.0015939
%RSD	4.162245	.3290068	.8507769	1.029065	30.79337	98.58114
#1	10.08316	.5113681	.9151831	8.782866	.0034030	.0024636
#2	9.57866	.5124228	.9056205	8.963861	.0017886	.0026087
#3	9.28949	.5091306	.8999129	8.853196	.0030097	-.000222

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: ICV001 Acquired: 12/23/2024 13:56:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV001 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0009926	F .0055932	F -.012064	F .0014148	F .0003059	F -.009186
Stddev	.0006746	.0021417	.000981	.0020685	.0012174	.000113
%RSD	67.95988	38.29081	8.130862	146.2025	397.9983	1.227982
#1	.0015541	.0031306	-.011971	.0022120	.0016757	-.009073
#2	.0011794	.0070209	-.013088	.0029662	-.000105	-.009298
#3	.0002443	.0066280	-.011133	-.000934	-.000653	-.009186

Elem	Li6707
Units	ppm
Avg	F .0037256
Stddev	.0059965
%RSD	160.9541
#1	.0058862
#2	.0083423
#3	-.003052

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2029.388	26343.11	2140.188	1740.604	1822.592
Stddev	1.217	67.48	23.552	10.265	1.560
%RSD	.0599480	.2561403	1.100465	.5897588	.0856190
#1	2029.951	26418.49	2140.669	1740.891	1820.855
#2	2030.222	26288.36	2163.496	1750.722	1823.047
#3	2027.992	26322.48	2116.399	1730.198	1823.875

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: ICB001 Acquired: 12/23/2024 14:00:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB001 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003310	-.001601	-.001366	.0048692	.0006039	.0370921	-.001654
Stddev	.005994	.000820	.001181	.0013263	.0021066	.0263886	.001975
%RSD	181.0692	51.24100	86.50156	27.23961	348.8074	71.14333	119.4467
#1	-.009343	-.002537	-.000033	.0047871	-.001803	.0488166	.000296
#2	.002643	-.001258	-.002285	.0035858	.001501	.0555868	-.001604
#3	-.003231	-.001008	-.001779	.0062346	.002113	.0068730	-.003654

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000002	-.000029	-.016150	-.000513	-.000190	-.003490	-.003411
Stddev	.000016	.000123	.037108	.000715	.000167	.010339	.058460
%RSD	686.6488	432.6773	229.7738	139.5119	87.68182	296.2715	1713.859
#1	-.000017	-.000077	-.019499	-.000879	-.000318	-.014298	-.068760
#2	.000015	.000112	-.051469	-.000971	-.000250	.006304	.014609
#3	-.000005	-.000120	.022519	.000312	-.000002	-.002475	.043917

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011009	-.001647	.0008901	-.000408	-.231366	-.004941	-.004143
Stddev	.0007370	.103436	.0003304	.002012	.184844	.003898	.006325
%RSD	66.94802	6279.909	37.11793	493.5170	79.89251	78.89524	152.6425
#1	.0004190	-.102843	.0005669	-.002376	-.426916	-.005804	.003110
#2	.0010008	.103892	.0008761	.001646	-.207669	-.000683	-.008504
#3	.0018828	-.005990	.0012272	-.000493	-.059513	-.008335	-.007036

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.490042	-.002035	-.000443	.0006349	-.006083	-.017388	.0000172
Stddev	.039956	.001447	.002643	.0003115	.006338	.000991	.0010353
%RSD	8.153624	71.07581	596.7517	49.06358	104.2011	5.699089	6022.351
#1	-.448229	-.001815	-.003235	.0009291	-.008127	-.018300	-.000420
#2	-.494059	-.003579	-.000115	.0003086	-.011147	-.016333	.001199
#3	-.527838	-.000711	.002021	.0006671	.001025	-.017530	-.000727

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: ICB001 Acquired: 12/23/2024 14:00:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB001 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0007898	.0002543	.0057534
Stddev	.0028597	.0000156	.0010639
%RSD	362.0821	6.129717	18.49102
#1	.0039038	.0002373	.0069385
#2	-.001719	.0002679	.0054412
#3	.000184	.0002576	.0048806

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2021.490	26277.58	2113.547	1737.924	1820.832
Stddev	1.896	91.96	4.502	5.628	2.351
%RSD	.0937862	.3499554	.2130264	.3238464	.1291343
#1	2019.376	26171.50	2109.568	1731.425	1819.942
#2	2022.054	26334.72	2118.434	1741.212	1823.499
#3	2023.040	26326.53	2112.640	1741.134	1819.056

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: ICSA001 Acquired: 12/23/2024 14:04:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA001 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.009508	-.010812	.0055747	.0244191	.0238240	236.4366
Stddev	.003015	.004417	.0014368	.0078781	.0011857	.9851
%RSD	31.70506	40.85655	25.77368	32.26220	4.976829	.4166594
#1	-.006624	-.015680	.0051257	.0165621	.0249401	235.4856
#2	-.009262	-.007058	.0044160	.0323182	.0239527	237.4526
#3	-.012638	-.009697	.0071824	.0243770	.0225793	236.3715

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028451	.0020196	.0010455	242.1648	.0521193	.0364007
Stddev	.0026461	.0001208	.0000499	1.2307	.0006230	.0003283
%RSD	93.00402	5.982478	4.769726	.5081931	1.195302	.9018821
#1	.0027269	.0018898	.0010579	241.2717	.0517763	.0362282
#2	.0002602	.0021288	.0010879	243.5686	.0528384	.0361947
#3	.0055484	.0020402	.0009905	241.6541	.0517432	.0367793

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001171	100.7543	.0123397	257.1051	.0038986	.0026556
Stddev	.006184	.1511	.0014035	.8350	.0002715	.0007506
%RSD	528.2150	.1499542	11.37420	.3247538	6.964331	28.26443
#1	-.003578	100.5890	.0139189	256.1442	.0039558	.0028919
#2	.005855	100.8852	.0118654	257.6543	.0036031	.0032595
#3	-.005790	100.7888	.0112348	257.5167	.0041370	.0018153

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.84089	.0089735	-.015816	-.855043	-.001025	F -.011812
Stddev	.65846	.0158117	.004204	.131253	.001462	.003901
%RSD	35.76858	176.2040	26.58355	15.35046	142.7257	33.02341
#1	-2.17277	.0171335	-.019343	-.995124	-.002578	-.010715
#2	-1.08253	.0190383	-.011163	-.835106	-.000821	-.008578
#3	-2.26737	-.009251	-.016941	-.734899	.000325	-.016144

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: ICSA001 Acquired: 12/23/2024 14:04:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA001 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0035359	.0200226	-.026184	F .0129833	-.004881	.0015312
Stddev	.0008416	.0010926	.000930	.0009306	.002391	.0006983
%RSD	23.80170	5.456612	3.552547	7.167600	48.97955	45.60576
#1	.0038233	.0188216	-.025751	.0130218	-.002560	.0018082
#2	.0025883	.0209575	-.025550	.0120341	-.004747	.0020484
#3	.0041962	.0202887	-.027252	.0138941	-.007336	.0007369

Elem	Li6707
Units	ppm
Avg	.0084396
Stddev	.0016651
%RSD	19.72960
#1	.0103596
#2	.0073926
#3	.0075665

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1929.079	24812.76	2093.846	1646.319	1647.136
Stddev	1.737	100.46	2.577	7.764	.803
%RSD	.0900649	.4048901	.1230788	.4716181	.0487221
#1	1931.046	24858.16	2093.584	1644.090	1648.062
#2	1927.754	24882.51	2096.545	1654.954	1646.650
#3	1928.437	24697.61	2091.411	1639.913	1646.694

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: ICSAB001 Acquired: 12/23/2024 14:08:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB001 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0982024	.0831045	.0572344	.0693546	.5832036	236.9457
Stddev	.0048223	.0101188	.0023294	.0035492	.0044597	2.2810
%RSD	4.910592	12.17602	4.069987	5.117508	.7646963	.9626512
#1	.0930094	.0823399	.0560167	.0671594	.5791173	238.7269
#2	.0990587	.0733897	.0599203	.0734493	.5879608	237.7354
#3	.1025393	.0935840	.0557662	.0674551	.5825328	234.3749

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5258380	.5251327	1.019382	242.5419	.5961679	.5307926
Stddev	.0049631	.0048217	.003271	2.5055	.0018312	.0020734
%RSD	.9438458	.9181903	.3208646	1.033031	.3071629	.3906261
#1	.5285457	.5283708	1.016827	244.2667	.5969659	.5292143
#2	.5288584	.5274360	1.018252	243.6910	.5974646	.5300226
#3	.5201100	.5195913	1.023068	239.6679	.5940731	.5331408

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4788955	101.3140	.5265784	258.1679	1.016280	.1847340
Stddev	.0042526	1.1393	.0073320	2.6874	.004354	.0008688
%RSD	.8879930	1.124525	1.392392	1.040942	.4284452	.4703018
#1	.4806117	102.0543	.5324628	259.7154	1.014028	.1856135
#2	.4820218	101.8857	.5289078	259.7234	1.013512	.1847120
#3	.4740530	100.0021	.5183647	255.0648	1.021298	.1838763

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.944968	.5172710	.9267439	-1.24301	-.002438	F -.011429
Stddev	.925273	.0113762	.0172517	.22769	.002183	.004662
%RSD	97.91576	2.199266	1.861535	18.31793	89.54633	40.79375
#1	-.387888	.5221363	.9327057	-1.17258	-.004937	-.013747
#2	-.433966	.5042713	.9402239	-1.05886	-.000904	-.006062
#3	-2.01305	.5254055	.9073020	-1.49760	-.001473	-.014479

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: ICSAB001 Acquired: 12/23/2024 14:08:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB001 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042221	.0162405	-.029529	F .0130058	-.006371	.0013206
Stddev	.0015429	.0018697	.000671	.0033935	.001406	.0003761
%RSD	36.54334	11.51262	2.273004	26.09247	22.07108	28.48045
#1	.0024482	.0146393	-.028756	.0166358	-.005125	.0008904
#2	.0052518	.0157868	-.029865	.0124688	-.006092	.0015871
#3	.0049665	.0182952	-.029966	.0099128	-.007895	.0014843

Elem	Li6707
Units	ppm
Avg	.0071303
Stddev	.0013110
%RSD	18.38596
#1	.0080136
#2	.0056240
#3	.0077532

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1923.948	24876.11	2110.058	1648.195	1649.141
Stddev	6.458	91.79	12.560	7.017	6.484
%RSD	.3356581	.3690069	.5952391	.4257640	.3931609
#1	1929.337	24923.63	2104.831	1651.352	1655.745
#2	1925.718	24934.41	2100.957	1653.079	1648.893
#3	1916.790	24770.30	2124.388	1640.154	1642.784

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCV001 Acquired: 12/23/2024 14:12:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV001 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.005187	4.860599	24.94315	5.001554	4.953275	403.6886	10.16410
Stddev	.022926	.006987	.07643	.029779	.003855	4.5583	.10684
%RSD	.4580396	.1437556	.3064262	.5953896	.0778284	1.129150	1.051169
#1	5.031459	4.858332	24.87374	5.000786	4.957560	404.7458	10.20522
#2	4.989231	4.855026	24.93064	4.972166	4.950089	398.6946	10.04280
#3	4.994872	4.868438	25.02506	5.031709	4.952175	407.6253	10.24426

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5155738	2.503588	410.4360	15.79103	2.526658	15.21268	413.3318
Stddev	.0069292	.006451	4.2911	.04763	.007530	.18976	4.6911
%RSD	1.343973	.2576859	1.045510	.3016516	.2980340	1.247365	1.134956
#1	.5137668	2.499709	411.0921	15.84344	2.520650	15.24028	414.4449
#2	.5097272	2.500018	405.8546	15.75037	2.524218	15.01064	408.1843
#3	.5232275	2.511035	414.3614	15.77927	2.535106	15.38713	417.3663

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.06966	408.3939	2.533485	1.305511	404.7655	2.533295	15.08649
Stddev	.15941	4.5774	.004572	.003742	4.2368	.009711	.11288
%RSD	1.057812	1.120819	.1804656	.2866187	1.046718	.3833256	.7481963
#1	15.09623	410.1387	2.532527	1.309499	406.7292	2.542490	15.19944
#2	14.89863	403.2008	2.529468	1.302078	399.9032	2.523140	15.08635
#3	15.21411	411.8423	2.538460	1.304955	407.6641	2.534256	14.97369

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	153.1964	5.043375	4.994342	4.916126	5.035171	4.936523	5.066555
Stddev	1.5133	.010945	.076278	.012741	.010884	.068101	.017358
%RSD	.9877856	.2170197	1.527284	.2591630	.2161681	1.379534	.3425956
#1	153.4537	5.038795	4.982612	4.920150	5.022996	4.919038	5.054688
#2	151.5711	5.035464	4.924609	4.901859	5.038558	4.878869	5.058500
#3	154.5646	5.055866	5.075806	4.926369	5.043960	5.011662	5.086477

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCV001 Acquired: 12/23/2024 14:12:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV001 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	5.055174	4.832406	5.113268
Stddev	.050991	.056893	.057730
%RSD	1.008689	1.177331	1.129021
#1	5.046159	4.825273	5.131326
#2	5.009291	4.779416	5.048668
#3	5.110071	4.892530	5.159810

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1757.337	23869.46	2053.477	1497.352	1533.736
Stddev	6.884	122.32	23.871	8.652	8.212
%RSD	.3917553	.5124659	1.162486	.5778446	.5354069
#1	1763.377	23730.69	2052.914	1489.283	1542.133
#2	1758.793	23916.07	2077.625	1496.284	1533.350
#3	1749.841	23961.63	2029.893	1506.488	1525.724

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCB001 Acquired: 12/23/2024 14:16:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB001 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028919	.0012033	.0036605	.0022437	-.000066	.0378423	-.000999
Stddev	.0053961	.0027323	.0023915	.0047833	.002072	.0462896	.001053
%RSD	186.5908	227.0678	65.33412	213.1937	3161.328	122.3222	105.3644
#1	.0029740	-.001499	.0047063	.0057142	-.001379	.0020892	-.001494
#2	.0082466	.003965	.0053509	.0042296	.002323	.0901283	.000210
#3	-.002545	.001144	.0009241	-.003213	-.001141	.0213095	-.001713

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000053	-.000054	.0018350	.0003506	-.000032	.0083635	.0330278
Stddev	.000092	.000051	.0068233	.0002243	.000240	.0097983	.0279130
%RSD	174.7336	93.98517	371.8346	63.97844	746.8645	117.1554	84.51380
#1	-.000076	.000001	.0017088	.0005087	.000216	.0098373	.0335555
#2	-.000131	-.000064	.0087205	.0000939	-.000264	-.002088	.0048546
#3	.000049	-.000099	-.004924	.0004494	-.000048	.017341	.0606732

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015270	.1197950	.0009785	.0008518	-.110412	.0081163	-.004226
Stddev	.0012417	.0279895	.0002351	.0010047	.490852	.0045776	.009262
%RSD	81.31457	23.36450	24.02574	117.9483	444.5638	56.39959	219.1728
#1	.0009140	.1062140	.0012217	.0015575	-.040363	.0109801	-.012809
#2	.0007110	.1519839	.0009612	.0012965	-.632526	.0105320	.005591
#3	.0029560	.1011870	.0007525	-.000298	.341652	.0028369	-.005459

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.497514	-.001293	.0126564	.0006421	-.001531	-.034101	.0016355
Stddev	.106479	.001161	.0002901	.0004300	.004945	.001152	.0013538
%RSD	21.40219	89.79830	2.292122	66.97069	323.0139	3.377829	82.77380
#1	-.401480	-.000179	.0129475	.0001496	.000647	-.033500	.0022749
#2	-.479040	-.001203	.0126544	.0008337	.001951	-.033374	.0025512
#3	-.612020	-.002495	.0123673	.0009430	-.007190	-.035429	.0000805

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCB001 Acquired: 12/23/2024 14:16:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB001 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.002682	.0003368	.0137388
Stddev	.002457	.0003157	.0049226
%RSD	91.62129	93.72576	35.83009
#1	-.000289	.0003768	.0141281
#2	-.002558	.0006306	.0184552
#3	-.005199	.0000031	.0086330

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2039.177	26411.95	2124.655	1747.132	1835.178
Stddev	6.115	166.23	26.214	6.429	4.564
%RSD	.2998608	.6293683	1.233788	.3680006	.2486739
#1	2036.919	26220.01	2114.761	1739.810	1836.437
#2	2046.100	26508.37	2104.828	1751.857	1838.981
#3	2034.513	26507.48	2154.376	1749.729	1830.117

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5033-04DLX2 Acquired: 12/23/2024 14:28:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK96 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0225509	.0015843	.0967704	.0108569	.0157128	27.98752	.4098541
Stddev	.0020264	.0048151	.0039473	.0046679	.0022530	.09991	.0010734
%RSD	8.985976	303.9283	4.079081	42.99461	14.33855	.3569716	.2619049
#1	.0202405	.0031102	.1002274	.0122511	.0145192	28.06200	.4107968
#2	.0233851	-.003809	.0976146	.0146689	.0183115	27.87399	.4086858
#3	.0240271	.005452	.0924693	.0056508	.0143077	28.02658	.4100797

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028621	.0015438	518.5643	.0452803	.0863384	.1030168	75.14285
Stddev	.0000973	.0000555	2.9479	.0008518	.0002785	.0143462	.33207
%RSD	3.399787	3.592972	.5684711	1.881137	.3225240	13.92607	.4419160
#1	.0029082	.0015262	520.8992	.0462589	.0862617	.0916435	75.42370
#2	.0027503	.0014993	515.2518	.0448764	.0861063	.0982728	74.77635
#3	.0029279	.0016060	519.5418	.0447056	.0866472	.1191341	75.22850

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.375428	85.12960	.0893618	.0022448	-1.45629	.0619682	.2544435
Stddev	.016630	.46639	.0008427	.0011614	.11314	.0031410	.0115419
%RSD	.4926813	.5478544	.9429967	51.73555	7.769249	5.068746	4.536140
#1	3.389644	84.94112	.0886647	.0009045	-1.58662	.0615064	.2653029
#2	3.357140	84.78695	.0891224	.0029542	-1.39894	.0590836	.2557049
#3	3.379499	85.66073	.0902983	.0028756	-1.38331	.0653145	.2423227

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.072825	2.918575	.0139432	.0045159	.8867764	4.970236	.0157657
Stddev	.173509	.006818	.0029766	.0004357	.0124083	.077247	.0008414
%RSD	5.646575	.2336007	21.34826	9.647462	1.399256	1.554197	5.336884
#1	3.074881	2.920230	.0135529	.0047274	.8898991	5.047162	.0150254
#2	2.898297	2.911081	.0170956	.0048054	.8731051	4.892672	.0166808
#3	3.245297	2.924412	.0111809	.0040148	.8973251	4.970874	.0155911

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5033-04DLX2 Acquired: 12/23/2024 14:28:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK96 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3927391	.3931578	.0727012
Stddev	.0069193	.0011924	.0019639
%RSD	1.761796	.3032739	2.701282
#1	.3963474	.3935260	.0706844
#2	.3847615	.3918248	.0728117
#3	.3971084	.3941227	.0746075

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2067.811	26933.92	2260.024	1771.166	1633.616
Stddev	5.926	207.25	26.236	16.888	4.490
%RSD	.2866022	.7694621	1.160865	.9534794	.2748446
#1	2061.296	26946.58	2232.075	1772.105	1628.439
#2	2072.883	26720.64	2284.121	1753.829	1635.967
#3	2069.254	27134.55	2263.877	1787.565	1636.443

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5033-12DLX2 Acquired: 12/23/2024 14:32:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0685572	-.007129	.3279795	.0247713	.0228690	40.27653	.5503356
Stddev	.0024173	.003066	.0027664	.0012352	.0015264	.18870	.0026067
%RSD	3.525982	43.00628	.8434687	4.986572	6.674709	.4685138	.4736558
#1	.0695690	-.008162	.3281848	.0246228	.0242659	40.13950	.5476945
#2	.0703042	-.009544	.3306375	.0260740	.0231014	40.49176	.5529065
#3	.0657984	-.003680	.3251161	.0236169	.0212397	40.19834	.5504058

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043265	.0034828	485.2011	.0718956	.0922161	4.972718	104.4086
Stddev	.0001382	.0000279	1.8880	.0007118	.0006207	.022594	.5301
%RSD	3.195107	.7998045	.3891209	.9900394	.6731489	.4543660	.5076793
#1	.0041753	.0034519	483.3545	.0710738	.0916216	4.946804	103.9214
#2	.0044464	.0034906	487.1280	.0723170	.0928602	4.988292	104.9730
#3	.0043578	.0035060	485.1209	.0722960	.0921665	4.983058	104.3315

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.632948	80.50361	.1082767	.0044035	-.833074	.0877204	1.614655
Stddev	.030613	.46196	.0013918	.0009811	.449729	.0045909	.026128
%RSD	.4615281	.5738351	1.285386	22.27928	53.98428	5.233588	1.618171
#1	6.613998	80.37664	.1071184	.0050511	-.313827	.0876500	1.643314
#2	6.668266	81.01578	.1078910	.0032747	-1.09928	.0923461	1.608490
#3	6.616582	80.11842	.1098206	.0048845	-1.08611	.0831651	1.592161

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.948969	3.591317	.0289138	.0034962	1.238999	5.290007	.0401240
Stddev	.059543	.014479	.0020456	.0003115	.004655	.019833	.0015784
%RSD	.8568560	.4031616	7.074859	8.909209	.3757200	.3749179	3.933899
#1	6.924454	3.575829	.0265733	.0037229	1.240827	5.278913	.0383538
#2	6.905597	3.604513	.0303599	.0031410	1.242463	5.278204	.0406335
#3	7.016856	3.593609	.0298083	.0036248	1.233708	5.312905	.0413848

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5033-12DLX2 Acquired: 12/23/2024 14:32:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4297152	.3487660	.0839816
Stddev	.0022779	.0007799	.0042315
%RSD	.5300873	.2236265	5.038620
#1	.4283641	.3481212	.0792208
#2	.4284364	.3485438	.0854097
#3	.4323451	.3496329	.0873143

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2175.155	28345.97	2378.325	1855.985	1655.674
Stddev	7.730	165.57	2.001	13.960	4.677
%RSD	.3553836	.5841216	.0841480	.7521438	.2824668
#1	2177.674	28210.65	2376.805	1844.238	1658.041
#2	2181.312	28296.65	2377.578	1852.300	1658.694
#3	2166.480	28530.59	2380.593	1871.418	1650.287

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5033-13DLX2 Acquired: 12/23/2024 14:36:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0170614	.0086901	.1110210	-.004688	.0114631	27.20762	.3449406
Stddev	.0026694	.0019361	.0032133	.001580	.0038816	.15917	.0030894
%RSD	15.64581	22.27964	2.894268	33.69923	33.86215	.5850138	.8956408
#1	.0154059	.0079394	.1106485	-.003979	.0117245	27.38523	.3484385
#2	.0156374	.0108891	.1080103	-.006498	.0074573	27.07789	.3437983
#3	.0201408	.0072417	.1144043	-.003587	.0152074	27.15972	.3425849

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030642	.0014239	593.5666	.0480336	.0741249	.1473819	64.21548
Stddev	.0002328	.0000959	2.3498	.0017720	.0006748	.0021805	.42670
%RSD	7.598406	6.737580	.3958820	3.689107	.9103957	1.479477	.6644747
#1	.0031586	.0013134	596.2646	.0462669	.0744958	.1457198	64.65024
#2	.0027990	.0014722	592.4673	.0498109	.0745328	.1465751	63.79733
#3	.0032350	.0014861	591.9679	.0480230	.0733459	.1498508	64.19889

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.188343	57.18041	.0708181	.0029453	-.609537	.0542027	.2813171
Stddev	.020175	.42621	.0008111	.0003769	.540099	.0064759	.0184335
%RSD	.6327814	.7453856	1.145347	12.79823	88.60807	11.94757	6.552569
#1	3.210695	57.67053	.0715681	.0027844	-1.17807	.0600855	.2873333
#2	3.182853	56.89670	.0709290	.0026755	-.54727	.0552590	.2959908
#3	3.171482	56.97400	.0699573	.0033760	-.10327	.0472636	.2606271

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.737038	1.798972	.0444419	.0030749	1.209467	4.737006	.0152007
Stddev	.111546	.012552	.0004256	.0002749	.006838	.034029	.0003777
%RSD	1.655719	.6977531	.9576425	8.940638	.5654096	.7183560	2.484581
#1	6.614106	1.798860	.0447570	.0032188	1.205273	4.750888	.0149306
#2	6.831798	1.811580	.0439578	.0032481	1.217359	4.698231	.0150392
#3	6.765209	1.786476	.0446110	.0027579	1.205770	4.761900	.0156323

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5033-13DLX2 Acquired: 12/23/2024 14:36:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1428217	.4526459	.0639584
Stddev	.0026572	.0010219	.0046635
%RSD	1.860523	.2257704	7.291411
#1	.1426804	.4537068	.0586079
#2	.1455468	.4525628	.0671598
#3	.1402379	.4516680	.0661076

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2059.757	26897.91	2240.570	1764.765	1624.485
Stddev	7.384	85.02	9.672	11.027	7.548
%RSD	.3584653	.3160739	.4316841	.6248388	.4646519
#1	2053.291	26888.06	2231.324	1759.168	1617.385
#2	2058.177	26818.24	2250.619	1757.659	1623.656
#3	2067.802	26987.42	2239.767	1777.468	1632.413

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5034-03DLX2 Acquired: 12/23/2024 14:40:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0913763	-.015451	.3342841	.0587225	.0241963	43.46176	1.023358
Stddev	.0044129	.003258	.0014848	.0014166	.0010895	.05516	.002245
%RSD	4.829389	21.08776	.4441741	2.412298	4.502941	.1269146	.2193443
#1	.0951338	-.015517	.3334173	.0573751	.0247594	43.52374	1.024415
#2	.0865168	-.018675	.3334365	.0601993	.0248892	43.41804	1.020780
#3	.0924781	-.012160	.3359986	.0585930	.0229405	43.44351	1.024879

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040685	.0059184	122.8441	.0679909	.0968196	.1552627	122.1707
Stddev	.0001572	.0000784	.0105	.0010387	.0014970	.0045443	.3028
%RSD	3.863679	1.325380	.0085198	1.527731	1.546144	2.926830	.2478104
#1	.0042388	.0059194	122.8333	.0680584	.0951032	.1506666	122.2351
#2	.0040380	.0058395	122.8449	.0689942	.0978549	.1553682	121.8409
#3	.0039289	.0059963	122.8542	.0669201	.0975006	.1597533	122.4361

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.17656	47.68016	.1092877	.0077402	-.815263	.0989152	.4203638
Stddev	.02675	.33326	.0007741	.0010907	.503830	.0058982	.0112897
%RSD	.1471471	.6989541	.7083317	14.09088	61.79970	5.962930	2.685695
#1	18.17552	47.37241	.1097622	.0080656	-.283585	.0923786	.4207347
#2	18.15035	47.63397	.1083944	.0086311	-1.28563	.1005271	.4314635
#3	18.20381	48.03411	.1097064	.0065239	-.87657	.1038400	.4088933

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.321977	3.506004	.0068564	.0058242	1.327975	6.685938	.0247767
Stddev	.091078	.020252	.0030702	.0006007	.012903	.039520	.0030377
%RSD	2.741690	.5776478	44.77896	10.31429	.9716606	.5910847	12.26046
#1	3.401966	3.485904	.0088213	.0062131	1.313717	6.715834	.0271278
#2	3.222851	3.505703	.0084294	.0061272	1.331362	6.641133	.0258556
#3	3.341113	3.526406	.0033184	.0051323	1.338848	6.700848	.0213468

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5034-03DLX2 Acquired: 12/23/2024 14:40:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2260622	.0028587	.0490084
Stddev	.0036854	.0002350	.0031843
%RSD	1.630257	8.220947	6.497533
#1	.2231597	.0028719	.0526043
#2	.2248183	.0026174	.0478753
#3	.2302086	.0030868	.0465455

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2364.691	30717.03	2526.814	2027.673	1759.972
Stddev	10.631	148.15	18.743	13.781	10.524
%RSD	.4495663	.4823135	.7417806	.6796378	.5979589
#1	2375.413	30636.43	2507.484	2020.151	1770.188
#2	2364.505	30626.65	2544.910	2019.290	1760.564
#3	2354.154	30888.01	2528.047	2043.578	1749.165

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5034-04DLX2 Acquired: 12/23/2024 14:44:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB6D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0949371	-.015931	.3331671	.0575795	.0228122	44.14331	1.035129
Stddev	.0089612	.001231	.0001360	.0012995	.0037237	.16217	.001652
%RSD	9.439047	7.728332	.0408068	2.256861	16.32325	.3673652	.1596219
#1	.0979759	-.017185	.3330277	.0590540	.0205683	44.11291	1.033412
#2	.1019837	-.015882	.3332994	.0566013	.0271105	44.31853	1.036709
#3	.0848517	-.014725	.3331741	.0570832	.0207576	43.99849	1.035265

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040808	.0058577	123.6537	.0681909	.0970610	.1516273	123.5096
Stddev	.0000473	.0001092	.5156	.0008108	.0003779	.0024672	.5012
%RSD	1.157931	1.863801	.4169534	1.188999	.3893069	1.627123	.4058359
#1	.0040619	.0059216	123.5345	.0685584	.0974434	.1539265	123.3657
#2	.0041345	.0057316	124.2185	.0672614	.0966879	.1519346	124.0671
#3	.0040459	.0059199	123.2083	.0687528	.0970518	.1490210	123.0961

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.36340	48.11956	.1095808	.0068832	-1.09421	.0980086	.3964953
Stddev	.07764	.19554	.0010852	.0020425	.21900	.0076312	.0056487
%RSD	.4227876	.4063525	.9903154	29.67443	20.01432	7.786296	1.424666
#1	18.33302	48.13184	.1108326	.0061075	-.91241	.1027065	.3901238
#2	18.45163	48.30866	.1089058	.0091999	-1.03288	.0892034	.3984724
#3	18.30554	47.91817	.1090040	.0053421	-1.33733	.1021159	.4008897

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.283067	3.517788	.0123863	.0061984	1.324999	7.042350	.0223670
Stddev	.162526	.006957	.0014244	.0004509	.002103	.036295	.0029960
%RSD	4.950437	.1977727	11.49949	7.274362	.1587127	.5153772	13.39475
#1	3.095449	3.522064	.0140252	.0064955	1.326588	7.058704	.0192264
#2	3.373063	3.509760	.0114476	.0056796	1.322614	7.067589	.0226808
#3	3.380688	3.521540	.0116861	.0064202	1.325794	7.000755	.0251938

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5034-04DLX2 Acquired: 12/23/2024 14:44:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB6D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2417732	.0026123	.0475375
Stddev	.0057566	.0002234	.0059253
%RSD	2.380992	8.553533	12.46451
#1	.2364273	.0024964	.0541340
#2	.2478673	.0024706	.0458126
#3	.2410249	.0028699	.0426661

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2333.127	30203.68	2475.487	2002.694	1738.367
Stddev	1.789	123.54	14.257	14.727	2.591
%RSD	.0766853	.4090364	.5759199	.7353577	.1490663
#1	2332.568	30260.58	2476.851	2000.128	1738.334
#2	2335.129	30061.94	2460.597	1989.419	1740.976
#3	2331.684	30288.52	2489.013	2018.536	1735.793

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5034-03LDLX10 Acquired: 12/23/2024 14:48:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB6L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0149961	-.000043	.0676067	.0065681	.0048629	9.893973	.2300490
Stddev	.0032764	.005534	.0025452	.0004418	.0042014	.038846	.0020520
%RSD	21.84816	12738.54	3.764779	6.726772	86.39835	.3926185	.8919670
#1	.0182010	-.004666	.0694798	.0069865	.0042441	9.853286	.2289762
#2	.0116527	-.001552	.0686315	.0061061	.0010051	9.930669	.2287557
#3	.0151346	.006088	.0647088	.0066118	.0093394	9.897963	.2324149

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009116	.0010301	27.97978	.0144381	.0274655	.0372169	27.92818
Stddev	.0001665	.0000545	.15100	.0008136	.0001099	.0017663	.07924
%RSD	18.26792	5.293761	.5396816	5.635136	.4002674	4.746035	.2837120
#1	.0008676	.0009920	27.86609	.0148430	.0273580	.0377095	27.91811
#2	.0010957	.0010057	28.15112	.0135015	.0274608	.0386847	28.01197
#3	.0007715	.0010926	27.92214	.0149697	.0275778	.0352566	27.85446

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.172565	11.04984	.0212191	.0013163	-1.78878	.0261593	.0802138
Stddev	.014864	.05356	.0005015	.0010658	.94026	.0049255	.0245343
%RSD	.3562406	.4847085	2.363232	80.96868	52.56435	18.82870	30.58611
#1	4.158574	11.01241	.0210230	.0002057	-2.35016	.0209083	.1083949
#2	4.188171	11.02591	.0217889	.0023308	-2.31290	.0306769	.0686328
#3	4.170951	11.11119	.0208453	.0014125	-.70327	.0268927	.0636136

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1613107	.6891325	.0021971	.0026400	.2565638	1.558592	.0047072
Stddev	.0490577	.0032152	.0032372	.0008581	.0008291	.021355	.0020565
%RSD	30.41196	.4665583	147.3394	32.50401	.3231480	1.370124	43.68955
#1	.1321083	.6855681	.0013025	.0030743	.2562729	1.538846	.0062496
#2	.1338753	.6918140	.0057876	.0031941	.2559194	1.581255	.0023723
#3	.2179486	.6900155	-.000499	.0016516	.2574991	1.555674	.0054996

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5034-03LDLX10 Acquired: 12/23/2024 14:48:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB6L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0523613	.0004488	.0119954
Stddev	.0048933	.0002448	.0043832
%RSD	9.345246	54.54919	36.54057
#1	.0477547	.0003661	.0167945
#2	.0574981	.0002560	.0082033
#3	.0518312	.0007243	.0109885

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2105.632	27527.67	2230.203	1819.669	1818.403
Stddev	4.053	150.28	20.751	9.697	.702
%RSD	.1925017	.5459381	.9304671	.5329261	.0386087
#1	2108.944	27356.52	2244.869	1809.965	1819.214
#2	2101.112	27638.06	2206.460	1829.360	1817.999
#3	2106.841	27588.44	2239.281	1819.681	1817.997

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5034-05DLX2 Acquired: 12/23/2024 14:52:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB6S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1372985	.0300452	.3363727	.1308802	.0998256	43.30071	2.654654
Stddev	.0032025	.0032815	.0013230	.0013456	.0022400	.25665	.022931
%RSD	2.332517	10.92189	.3933003	1.028111	2.243900	.5927174	.8637860
#1	.1368991	.0280014	.3357195	.1293432	.0974113	43.03339	2.629715
#2	.1406820	.0338303	.3355034	.1318457	.1002293	43.54516	2.674828
#3	.1343145	.0283039	.3378952	.1314518	.1018363	43.32357	2.659418

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0464084	.0535060	117.4575	.2433279	.5617803	.3506155	118.0658
Stddev	.0004114	.0001079	.8207	.0003713	.0002330	.0142779	1.0316
%RSD	.8865114	.2015956	.6986936	.1525860	.0414668	4.072232	.8737130
#1	.0461189	.0534090	116.6026	.2433427	.5617639	.3355293	116.9921
#2	.0468793	.0534869	118.2390	.2436915	.5615560	.3524001	119.0492
#3	.0462270	.0536222	117.5309	.2429494	.5620210	.3639172	118.1562

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.85743	45.75406	.5891337	.0363584	-1.12716	.5190420	.7708917
Stddev	.16308	.41242	.0010258	.0017955	.60620	.0016054	.0168099
%RSD	.9132266	.9013944	.1741265	4.938249	53.78104	.3092986	2.180584
#1	17.68119	45.37819	.5882358	.0343482	-.54645	.5183683	.7749381
#2	18.00300	46.19524	.5902517	.0378028	-1.07905	.5178833	.7524279
#3	17.88808	45.68875	.5889136	.0369242	-1.75598	.5208745	.7853091

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.982016	3.349533	.0073533	.0051312	1.264832	6.439987	.0207771
Stddev	.139254	.012175	.0027534	.0006550	.003278	.059354	.0009292
%RSD	4.669789	.3634822	37.44523	12.76439	.2591323	.9216418	4.472337
#1	2.992003	3.344813	.0064339	.0047394	1.261679	6.393156	.0197048
#2	2.838038	3.340425	.0051771	.0047668	1.264596	6.506739	.0213458
#3	3.116008	3.363361	.0104488	.0058873	1.268221	6.420067	.0212807

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5034-05DLX2 Acquired: 12/23/2024 14:52:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB6S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2204833	.0016975	.0477828
Stddev	.0014149	.0002463	.0042014
%RSD	.6417048	14.51058	8.792742
#1	.2190034	.0016601	.0509711
#2	.2218226	.0014721	.0430219
#3	.2206238	.0019604	.0493552

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2407.635	31295.87	2575.721	2070.106	1804.561
Stddev	5.629	84.39	23.854	4.136	1.954
%RSD	.2337832	.2696383	.9261060	.1997906	.1082876
#1	2414.114	31369.15	2599.520	2066.089	1806.816
#2	2404.848	31314.84	2551.812	2074.352	1803.505
#3	2403.944	31203.61	2575.831	2069.877	1803.362

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5034-13DLX5 Acquired: 12/23/2024 14:56:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010123	.0132804	.0363928	-.011459	.0060540	11.65384	.0884583
Stddev	.0031095	.0032516	.0005693	.001886	.0014995	.00853	.0013012
%RSD	307.1576	24.48444	1.564309	16.46206	24.76947	.0731920	1.470986
#1	.0044659	.0164240	.0366766	-.010913	.0073166	11.66163	.0889005
#2	.0001361	.0099305	.0367644	-.013559	.0064488	11.65516	.0894808
#3	-.001565	.0134867	.0357374	-.009907	.0043965	11.64473	.0869936

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014162	.0006404	206.5279	.0217319	.0460503	.0439594	35.80746
Stddev	.0001915	.0000756	.1720	.0009236	.0004696	.0033948	.10175
%RSD	13.52399	11.80793	.0832849	4.250079	1.019774	7.722677	.2841627
#1	.0015395	.0006656	206.6803	.0209357	.0462750	.0478104	35.91354
#2	.0011955	.0007001	206.3414	.0227445	.0455105	.0413995	35.71067
#3	.0015135	.0005554	206.5620	.0215154	.0463653	.0426683	35.79816

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.775902	42.89046	.0282005	.0011821	-1.03903	.0349418	.0868453
Stddev	.006662	.25181	.0002734	.0009719	.36711	.0089214	.0095669
%RSD	.3751336	.5871063	.9695299	82.22388	35.33248	25.53206	11.01608
#1	1.781462	43.16593	.0278921	.0018574	-.89959	.0411261	.0954074
#2	1.777728	42.83331	.0284133	.0016206	-1.45543	.0247148	.0886094
#3	1.768518	42.67213	.0282960	.0000681	-.76206	.0389846	.0765190

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.253466	1.042007	.0086369	.0042177	.3128784	1.931247	.0090324
Stddev	.032361	.004644	.0027850	.0003042	.0037205	.018620	.0031861
%RSD	2.581717	.4456312	32.24540	7.212130	1.189112	.9641593	35.27373
#1	1.274355	1.045666	.0069424	.0041903	.3129229	1.927248	.0093279
#2	1.216189	1.036783	.0071171	.0045346	.3091359	1.951542	.0057089
#3	1.269854	1.043571	.0118512	.0039281	.3165764	1.914952	.0120605

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5034-13DLX5 Acquired: 12/23/2024 14:56:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2888712	.1364957	.0213223
Stddev	.0012916	.0007288	.0029431
%RSD	.4471186	.5338963	13.80275
#1	.2873825	.1359803	.0179666
#2	.2896938	.1361774	.0234648
#3	.2895372	.1373294	.0225355

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2028.446	26731.64	2185.702	1764.496	1703.514
Stddev	5.075	111.36	8.893	4.085	5.682
%RSD	.2502150	.4165784	.4068705	.2314863	.3335386
#1	2022.866	26784.33	2187.923	1765.853	1696.974
#2	2032.788	26603.72	2175.910	1759.906	1707.236
#3	2029.684	26806.89	2193.275	1767.729	1706.331

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5233-03DLX2 Acquired: 12/23/2024 15:00:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28R7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0351538	-.014196	.0974547	.0227531	.0229033	47.06037	.6103552
Stddev	.0021589	.002497	.0022433	.0051715	.0035355	.07746	.0011042
%RSD	6.141236	17.59002	2.301923	22.72878	15.43660	.1646032	.1809163
#1	.0374440	-.015193	.0965043	.0200758	.0191184	46.98072	.6096537
#2	.0331560	-.016040	.0958430	.0287144	.0261208	47.06497	.6097838
#3	.0348613	-.011354	.1000168	.0194692	.0234706	47.13544	.6116280

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048829	.0023868	415.8688	.0925597	.0866079	.0756606	106.6873
Stddev	.0000716	.0000741	.7694	.0006481	.0005397	.0024746	.1847
%RSD	1.466898	3.102671	.1850142	.7002206	.6232003	3.270655	.1731590
#1	.0049346	.0023496	415.2704	.0921711	.0860804	.0777190	106.5229
#2	.0049129	.0024721	415.5992	.0933079	.0871591	.0763477	106.6518
#3	.0048011	.0023389	416.7367	.0922001	.0865843	.0729150	106.8872

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.222240	121.6019	.1439966	.0021310	-.853073	.1229990	.3191396
Stddev	.001993	.4314	.0010357	.0018619	.508568	.0014253	.0116131
%RSD	.0896828	.3547626	.7192675	87.37322	59.61601	1.158790	3.638866
#1	2.220658	121.3623	.1430083	.0034829	-.520183	.1232425	.3238618
#2	2.221583	121.3434	.1439075	.0000073	-.600556	.1214677	.3276477
#3	2.224478	122.0999	.1450740	.0029027	-1.43848	.1242869	.3059093

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.240331	2.063535	.0159257	.0138281	2.930084	5.902586	.0175140
Stddev	.144309	.006600	.0025175	.0007041	.024963	.035304	.0005562
%RSD	2.753818	.3198626	15.80782	5.091602	.8519465	.5981177	3.175882
#1	5.400873	2.064475	.0150227	.0131126	2.931244	5.932486	.0169131
#2	5.121398	2.056515	.0187701	.0138516	2.904562	5.863638	.0180109
#3	5.198721	2.069616	.0139841	.0145201	2.954447	5.911633	.0176181

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5233-03DLX2 Acquired: 12/23/2024 15:00:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28R7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6923031	.7079578	.0893270
Stddev	.0020918	.0016220	.0032964
%RSD	.3021545	.2291157	3.690312
#1	.6901359	.7090778	.0931240
#2	.6924629	.7060977	.0871967
#3	.6943104	.7086978	.0876604

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2088.431	27109.98	2282.484	1781.842	1680.724
Stddev	2.487	176.03	4.246	7.560	3.030
%RSD	.1190735	.6492999	.1860137	.4242556	.1802908
#1	2088.981	27282.24	2282.769	1787.347	1677.414
#2	2085.715	26930.42	2286.579	1773.222	1683.361
#3	2090.597	27117.27	2278.102	1784.956	1681.398

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5233-04DLX2 Acquired: 12/23/2024 15:04:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28R8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0056047	.0195158	.1100900	-.010341	.0089329	43.94582	.4122944
Stddev	.0043340	.0066155	.0010979	.003297	.0023513	.24160	.0017016
%RSD	77.32799	33.89802	.9972562	31.88735	26.32202	.5497646	.4127075
#1	.0065148	.0126569	.1103657	-.006966	.0062305	43.81222	.4114635
#2	.0094115	.0200331	.1088805	-.010502	.0100568	43.80052	.4111680
#3	.0008879	.0258575	.1110237	-.013555	.0105114	44.22471	.4142518

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0067967	.0011224	655.4018	.0687353	.0588710	.0515692	45.05707
Stddev	.0001734	.0002160	3.3447	.0004517	.0004727	.0040847	.24932
%RSD	2.550703	19.24230	.5103283	.6572020	.8029381	7.920863	.5533431
#1	.0069344	.0013587	652.7483	.0692100	.0594141	.0476717	44.91770
#2	.0066021	.0010734	654.2983	.0686851	.0586474	.0512173	44.90860
#3	.0068538	.0009351	659.1588	.0683107	.0585517	.0558184	45.34491

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.505404	196.6350	.0439795	.0006567	-.365704	.0665073	.2304782
Stddev	.020615	1.6000	.0004704	.0011427	.879041	.0053382	.0074408
%RSD	.5880973	.8136674	1.069475	173.9916	240.3696	8.026429	3.228442
#1	3.484544	195.3089	.0445017	-.000418	-.987938	.0618658	.2234243
#2	3.505902	196.1840	.0438477	.001857	-.749088	.0653155	.2297568
#3	3.525765	198.4120	.0435891	.000530	.639914	.0723406	.2382534

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.373692	1.016693	.1248064	.0076763	11.76877	5.798905	.0195787
Stddev	.099289	.015236	.0021019	.0004406	.10342	.038671	.0021517
%RSD	4.182888	1.498590	1.684134	5.740054	.8787759	.6668732	10.99009
#1	2.380764	1.031808	.1261477	.0081607	11.83138	5.843020	.0194654
#2	2.271056	1.016932	.1223840	.0075689	11.82552	5.770860	.0174858
#3	2.469256	1.001338	.1258875	.0072993	11.64940	5.782834	.0217847

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5233-04DLX2 Acquired: 12/23/2024 15:04:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28R8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.214214	1.246210	.0581521
Stddev	.001358	.007135	.0037340
%RSD	.1118386	.5725425	6.421159
#1	1.213143	1.242834	.0555629
#2	1.215741	1.241391	.0624325
#3	1.213757	1.254407	.0564610

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2043.187	26655.92	2265.617	1745.639	1623.209
Stddev	10.082	132.94	9.300	1.352	10.561
%RSD	.4934668	.4987421	.4104796	.0774701	.6506520
#1	2033.188	26785.27	2267.795	1746.926	1612.571
#2	2043.021	26662.84	2273.635	1745.761	1623.364
#3	2053.351	26519.65	2255.422	1744.229	1633.692

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5233-06DLX2 Acquired: 12/23/2024 15:08:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28R9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0401652	-.009007	.2632828	.0186186	.0209520	41.45703	.3964863
Stddev	.0021924	.001530	.0058293	.0039111	.0041236	.24720	.0011839
%RSD	5.458450	16.98786	2.214097	21.00621	19.68098	.5962750	.2985882
#1	.0393786	-.008404	.2687902	.0229487	.0213686	41.74132	.3977813
#2	.0426424	-.010747	.2571776	.0175646	.0166360	41.29270	.3954597
#3	.0384747	-.007870	.2638805	.0153426	.0248515	41.33707	.3962178

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046504	.0022092	547.2288	.0971208	.0827129	.1386178	97.83961
Stddev	.0001275	.0000601	2.3987	.0003451	.0002201	.0090332	.50364
%RSD	2.741855	2.722002	.4383432	.3553404	.2660506	6.516587	.5147629
#1	.0045032	.0022611	549.9700	.0970724	.0829320	.1288387	98.40458
#2	.0047241	.0022231	546.2022	.0974876	.0827147	.1403650	97.43768
#3	.0047240	.0021433	545.5143	.0968024	.0824919	.1466498	97.67659

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.709253	165.6885	.1389636	.0014557	.0785736	.1320381	.3385397
Stddev	.012451	.8302	.0008425	.0006391	.3945080	.0029904	.0163770
%RSD	.4595830	.5010335	.6062715	43.90425	502.0875	2.264790	4.837528
#1	2.720426	166.6453	.1398494	.0010685	.5336311	.1354810	.3212085
#2	2.695830	165.2602	.1381723	.0021934	-.130829	.1300886	.3406534
#3	2.711504	165.1599	.1388691	.0011053	-.167082	.1305446	.3537571

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.817348	2.122965	.0297802	.0208368	9.323190	6.898028	.0334333
Stddev	.068126	.003149	.0025937	.0003083	.006563	.043728	.0014513
%RSD	1.414181	.1483254	8.709617	1.479466	.0703977	.6339171	4.340877
#1	4.741978	2.119457	.0316752	.0208507	9.316495	6.930905	.0349841
#2	4.874543	2.123894	.0268242	.0211380	9.323463	6.914778	.0332077
#3	4.835523	2.125546	.0308413	.0205219	9.329613	6.848401	.0321080

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5233-06DLX2 Acquired: 12/23/2024 15:08:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28R9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8446866	1.594024	.0661601
Stddev	.0081405	.006781	.0020569
%RSD	.9637362	.4253856	3.109027
#1	.8537753	1.601254	.0639605
#2	.8380650	1.593010	.0680359
#3	.8422195	1.587807	.0664839

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2058.421	26867.61	2251.442	1763.581	1651.196
Stddev	5.138	91.86	16.578	10.856	3.375
%RSD	.2496226	.3418996	.7363222	.6155586	.2043974
#1	2053.588	26765.27	2235.849	1751.273	1648.040
#2	2063.818	26942.95	2249.624	1767.681	1654.754
#3	2057.857	26894.60	2268.854	1771.790	1650.795

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5233-17DLX5 Acquired: 12/23/2024 15:11:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28T1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0567554	-.175448	1.420011	.2329077	.0952291	9.578620	.1548260
Stddev	.0069248	.004915	.002689	.0041844	.0014851	.037760	.0009056
%RSD	12.20118	2.801418	.1893781	1.796584	1.559455	.3942124	.5848874
#1	.0589673	-.169928	1.417301	.2377306	.0939924	9.621468	.1556637
#2	.0623040	-.177067	1.422678	.2302442	.0948187	9.564187	.1538652
#3	.0489948	-.179350	1.420055	.2307483	.0968762	9.550205	.1549491

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0080878	.0125558	139.6329	1.252607	.0518852	.0816227	444.3348
Stddev	.0000200	.0001977	1.1053	.002557	.0004777	.0027486	2.9354
%RSD	.2469386	1.574780	.7915996	.2041744	.9207532	3.367459	.6606318
#1	.0080854	.0123993	140.9009	1.255521	.0519855	.0830949	447.6945
#2	.0081089	.0127781	139.1244	1.251564	.0523049	.0784515	443.0435
#3	.0080691	.0124901	138.8733	1.250735	.0513653	.0833215	442.2664

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.76173	21.94341	.4654375	.0208030	-.145524	.2126545	4.019313
Stddev	.12542	.12392	.0012792	.0007550	.739531	.0074712	.036713
%RSD	.6346637	.5647324	.2748353	3.629131	508.1856	3.513331	.9134181
#1	19.90414	22.08163	.4650990	.0206001	-.307385	.2189590	4.053290
#2	19.71338	21.84223	.4668519	.0216388	.661532	.2044023	4.024280
#3	19.66769	21.90637	.4643617	.0201703	-.790717	.2146021	3.980369

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.038886	1.897070	-.009492	.0249231	1.213727	2.174855	.0526410
Stddev	.048650	.008894	.002002	.0006229	.004056	.005371	.0008626
%RSD	125.1118	.4688135	21.09308	2.499176	.3342054	.2469571	1.638724
#1	-.093796	1.887949	-.011718	.0242493	1.213801	2.179964	.0535327
#2	-.021701	1.905718	-.008923	.0250424	1.217746	2.175346	.0518107
#3	-.001159	1.897541	-.007837	.0254777	1.209634	2.169256	.0525797

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5233-17DLX5 Acquired: 12/23/2024 15:11:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28T1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.9520485	-.297050	.0648387
Stddev	.0091588	.002222	.0072589
%RSD	.9620123	.7480221	11.19525
#1	.9613736	-.299615	.0729723
#2	.9430656	-.295712	.0625254
#3	.9517065	-.295823	.0590185

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2027.270	26399.04	2152.628	1739.994	1813.680
Stddev	6.486	176.47	15.407	14.737	6.646
%RSD	.3199178	.6684631	.7157472	.8469544	.3664451
#1	2034.564	26219.97	2136.513	1728.747	1819.608
#2	2022.153	26404.37	2154.157	1734.558	1806.495
#3	2025.092	26572.79	2167.214	1756.677	1814.936

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5233-19DLX2 Acquired: 12/23/2024 15:15:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28T3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0911012	-.212715	1.748930	.2790690	.1236056	38.66287	.5244850
Stddev	.0034162	.005470	.001466	.0077616	.0045475	.05899	.0003947
%RSD	3.749930	2.571625	.0838262	2.781239	3.679061	.1525635	.0752507
#1	.0942118	-.215482	1.747897	.2781405	.1203523	38.72653	.5248208
#2	.0874450	-.216249	1.748286	.2872530	.1216627	38.65201	.5245839
#3	.0916468	-.206414	1.750608	.2718134	.1288019	38.61007	.5240502

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0126768	.0197000	340.7263	1.623918	.0818104	.1928078	545.0382
Stddev	.0001039	.0000441	.6920	.006177	.0009151	.0053633	.4695
%RSD	.8194668	.2240231	.2030895	.3804072	1.118531	2.781679	.0861345
#1	.0126663	.0196643	340.5044	1.620557	.0808207	.1917668	545.4922
#2	.0127856	.0196864	341.5020	1.631047	.0819849	.1986152	544.5547
#3	.0125786	.0197493	340.1724	1.620149	.0826257	.1880413	545.0678

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.00630	55.39403	.6902394	.0242803	1.070197	.2875560	6.771159
Stddev	.04463	.14280	.0025340	.0020175	.373615	.0049934	.024847
%RSD	.2230696	.2577805	.3671207	8.309299	34.91083	1.736505	.3669584
#1	20.04883	55.45340	.6931223	.0252196	.726698	.2848057	6.798974
#2	20.01025	55.23113	.6883642	.0219644	1.467988	.2845424	6.763347
#3	19.95983	55.49756	.6892319	.0256570	1.015906	.2933199	6.751157

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.127317	3.346313	.0407908	.0370933	5.400600	5.898293	.0848035
Stddev	.096973	.012036	.0052567	.0005395	.009088	.008505	.0034370
%RSD	1.891302	.3596725	12.88695	1.454589	.1682830	.1441869	4.052929
#1	5.069425	3.339463	.0419911	.0366313	5.403878	5.889640	.0868396
#2	5.239270	3.339266	.0453435	.0369622	5.390327	5.898599	.0808353
#3	5.073256	3.360211	.0350377	.0376863	5.407594	5.906641	.0867358

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5233-19DLX2 Acquired: 12/23/2024 15:15:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28T3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.431042	.2168574	.0590920
Stddev	.005094	.0030334	.0067101
%RSD	.3559392	1.398780	11.35529
#1	1.429142	.2139412	.0569528
#2	1.436812	.2199957	.0537124
#3	1.427171	.2166351	.0666109

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2045.733	26662.05	2244.333	1744.728	1750.976
Stddev	2.716	75.27	6.475	9.032	2.907
%RSD	.1327635	.2823253	.2885037	.5176551	.1660228
#1	2043.073	26632.81	2237.360	1734.328	1747.625
#2	2045.626	26605.78	2250.156	1750.609	1752.815
#3	2048.502	26747.56	2245.481	1749.245	1752.488

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5037-12DLX2 Acquired: 12/23/2024 15:29:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK75 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0188634	-.004027	.0621240	.0110028	.0140137	32.96734	.3569716
Stddev	.0045072	.004283	.0029956	.0006734	.0024245	.14936	.0011917
%RSD	23.89380	106.3450	4.822045	6.119964	17.30069	.4530666	.3338253
#1	.0219915	.000731	.0655584	.0116305	.0147708	32.81831	.3559918
#2	.0136972	-.005238	.0600500	.0110863	.0113010	33.11704	.3582981
#3	.0209016	-.007574	.0607635	.0102916	.0159692	32.96667	.3566248

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029983	.0016549	445.7581	.0533893	.0729311	.0574128	79.49569
Stddev	.0000763	.0000442	1.6411	.0008547	.0007677	.0026989	.36547
%RSD	2.544143	2.672831	.3681628	1.600870	1.052569	4.700849	.4597363
#1	.0029269	.0016875	445.3806	.0533571	.0734490	.0551589	79.24077
#2	.0029892	.0016726	447.5550	.0525511	.0720492	.0566759	79.91441
#3	.0030787	.0016045	444.3386	.0542596	.0732952	.0604036	79.33190

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.810866	62.58761	.0856332	.0011348	-1.25217	.0703549	.1990824
Stddev	.015849	.41985	.0002530	.0011219	.65355	.0088637	.0190997
%RSD	.8752423	.6708215	.2954394	98.85935	52.19353	12.59849	9.593880
#1	1.795790	62.44009	.0856709	.0023793	-1.31027	.0715657	.1878157
#2	1.827390	63.06131	.0858651	.0002009	-.57151	.0785509	.2211352
#3	1.809420	62.26142	.0853634	.0008244	-1.87473	.0609481	.1882964

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.996817	3.327001	-.001460	.0033984	.8066062	5.270851	.0163056
Stddev	.153326	.003574	.001273	.0005005	.0050569	.012923	.0003137
%RSD	7.678526	.1074213	87.15459	14.72604	.6269329	.2451791	1.923573
#1	1.941195	3.331031	-.002831	.0028619	.8026696	5.285772	.0166669
#2	1.879065	3.324215	-.000316	.0038526	.8048395	5.263555	.0161464
#3	2.170191	3.325757	-.001234	.0034807	.8123094	5.263225	.0161035

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5037-12DLX2 Acquired: 12/23/2024 15:29:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK75 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5153909	.2768400	.0761942
Stddev	.0064741	.0009085	.0033084
%RSD	1.256154	.3281815	4.342022
#1	.5111499	.2774161	.0746604
#2	.5228429	.2773113	.0739311
#3	.5121800	.2757927	.0799911

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2073.052	26909.98	2260.721	1764.538	1680.224
Stddev	2.252	108.60	5.139	5.933	2.589
%RSD	.1086115	.4035602	.2273342	.3362214	.1540618
#1	2070.456	27032.96	2265.251	1770.445	1677.240
#2	2074.470	26869.69	2255.136	1758.580	1681.861
#3	2074.230	26827.28	2261.776	1764.588	1681.572

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5037-20DLX2 Acquired: 12/23/2024 15:33:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKG7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0267489	.0094735	.1812382	.0017300	.0135034	24.79956	.1427899
Stddev	.0031958	.0009258	.0031869	.0032960	.0017096	.09950	.0005253
%RSD	11.94732	9.772530	1.758408	190.5232	12.66056	.4012008	.3678954
#1	.0304374	.0105322	.1782683	.0037626	.0149520	24.68803	.1422188
#2	.0248093	.0090721	.1808414	.0035002	.0116176	24.87921	.1432524
#3	.0249999	.0088161	.1846049	-.002073	.0139404	24.83143	.1428987

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022970	.0022401	629.2614	.0407779	.0801947	.2152272	68.91455
Stddev	.0000824	.0001476	2.4539	.0010261	.0004647	.0070688	.33670
%RSD	3.587439	6.587456	.3899581	2.516396	.5794489	3.284343	.4885813
#1	.0022589	.0022298	626.8470	.0417944	.0802358	.2233606	68.58337
#2	.0023915	.0023926	631.7529	.0397424	.0806374	.2117553	68.90375
#3	.0022405	.0020980	629.1843	.0407968	.0797108	.2105657	69.25652

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.521039	83.19612	.0776823	.0011469	-.853488	.0581245	.2661666
Stddev	.029205	.67269	.0006112	.0010381	.557059	.0071449	.0179917
%RSD	.5289706	.8085555	.7868213	90.51079	65.26850	12.29250	6.759543
#1	5.492620	82.66683	.0769896	.0001421	-1.32790	.0533965	.2839543
#2	5.550970	83.95310	.0781457	.0022153	-.99246	.0663438	.2665678
#3	5.519526	82.96842	.0779116	.0010834	-.24010	.0546331	.2479778

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.939867	5.052917	.0085980	.0040785	.6813906	4.834214	.0160406
Stddev	.197113	.004868	.0012847	.0008735	.0045213	.027897	.0012388
%RSD	5.003048	.0963440	14.94141	21.41649	.6635326	.5770769	7.723049
#1	3.761318	5.049653	.0078467	.0047103	.6846222	4.829907	.0169864
#2	3.906895	5.058513	.0078660	.0044434	.6762238	4.864014	.0146383
#3	4.151387	5.050587	.0100814	.0030817	.6833256	4.808721	.0164972

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5037-20DLX2 Acquired: 12/23/2024 15:33:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKG7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4875103	.4468275	.0552302
Stddev	.0043246	.0027574	.0044499
%RSD	.8870759	.6170986	8.056949
#1	.4898188	.4444417	.0563611
#2	.4825213	.4498463	.0503240
#3	.4901908	.4461944	.0590055

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2136.853	27872.23	2348.170	1828.121	1653.077
Stddev	6.381	35.59	14.523	3.807	1.995
%RSD	.2986205	.1276843	.6184620	.2082474	.1206765
#1	2130.102	27893.22	2358.502	1832.273	1651.388
#2	2142.786	27831.13	2331.566	1827.298	1655.278
#3	2137.670	27892.32	2354.443	1824.793	1652.565

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5028-01DLX2 Acquired: 12/23/2024 15:37:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK34 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0163755	.0226201	.4181767	-.006794	.0060534	16.36175	.2403742
Stddev	.0030667	.0038375	.0015784	.002093	.0043102	.02843	.0021464
%RSD	18.72738	16.96490	.3774384	30.80842	71.20254	.1737635	.8929566
#1	.0190132	.0268771	.4179704	-.007395	.0093765	16.37380	.2381453
#2	.0130105	.0215569	.4198481	-.008521	.0011832	16.32927	.2405498
#3	.0171027	.0194263	.4167117	-.004466	.0076005	16.38216	.2424274

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018859	.0022983	595.1550	.0353136	.0620658	.0708749	50.60425
Stddev	.0001097	.0000814	.6956	.0015574	.0004708	.0066744	.05483
%RSD	5.817574	3.540576	.1168833	4.410080	.7585565	9.417151	.1083409
#1	.0017652	.0023370	595.5423	.0360766	.0616329	.0672553	50.57857
#2	.0019797	.0023531	594.3519	.0363423	.0625670	.0785772	50.56697
#3	.0019128	.0022048	595.5708	.0335218	.0619976	.0667922	50.66720

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.021823	285.0778	.0436538	.0024640	-.936904	.0501545	.4580016
Stddev	.010651	.3151	.0001932	.0002753	.028913	.0047297	.0038952
%RSD	.2648198	.1105363	.4425496	11.17167	3.086019	9.430159	.8504668
#1	4.015845	285.3390	.0436047	.0027800	-.968545	.0552391	.4538488
#2	4.034120	284.7278	.0438668	.0023355	-.911858	.0458861	.4585820
#3	4.015504	285.1665	.0434898	.0022764	-.930308	.0493383	.4615740

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.058842	3.106323	.0436722	.0039673	11.85081	3.745284	.0188528
Stddev	.047472	.010924	.0011926	.0002920	.01824	.027397	.0017354
%RSD	1.169599	.3516758	2.730847	7.359130	.1539159	.7315040	9.205272
#1	4.031274	3.116022	.0424835	.0042243	11.84078	3.776916	.0182137
#2	4.031595	3.108459	.0448687	.0036499	11.87187	3.729049	.0175276
#3	4.113658	3.094489	.0436642	.0040278	11.83979	3.729887	.0208172

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5028-01DLX2 Acquired: 12/23/2024 15:37:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK34 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2234811	.2971427	.0277512
Stddev	.0024395	.0017897	.0009298
%RSD	1.091594	.6022985	3.350512
#1	.2241748	.2989757	.0276582
#2	.2207698	.2970526	.0268714
#3	.2254985	.2953997	.0287241

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1996.187	26142.28	2201.655	1700.952	1612.197
Stddev	5.326	254.44	19.497	14.569	6.505
%RSD	.2668310	.9733037	.8855615	.8565311	.4034971
#1	2001.350	25986.82	2180.076	1689.490	1618.961
#2	1990.711	26004.10	2206.883	1696.018	1605.985
#3	1996.499	26435.92	2218.004	1717.347	1611.646

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5028-02DLX2 Acquired: 12/23/2024 15:41:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK35 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0468603	.0009497	.8856487	-.000983	.0150330	29.26238	.5068133
Stddev	.0008729	.0036231	.0025963	.002847	.0030816	.28448	.0052301
%RSD	1.862684	381.5199	.2931467	289.6401	20.49906	.9721581	1.031953
#1	.0478564	-.002907	.8870849	-.002358	.0122802	28.95443	.5014601
#2	.0464955	.001473	.8872096	.002290	.0144566	29.51536	.5119109
#3	.0462290	.004283	.8826517	-.002881	.0183621	29.31735	.5070690

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031350	.0042886	576.3378	.0556746	.0758277	.1380335	77.07323
Stddev	.0001570	.0000899	4.7398	.0002874	.0003059	.0149074	.87395
%RSD	5.007600	2.096609	.8223995	.5161239	.4034302	10.79988	1.133927
#1	.0029582	.0043710	570.9930	.0560056	.0755475	.1232225	76.19925
#2	.0032581	.0043022	580.0302	.0554893	.0757816	.1530356	77.94716
#3	.0031887	.0041927	577.9902	.0555290	.0761541	.1378423	77.07328

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.110212	244.1238	.0746664	.0039481	-.305440	.0758214	.8351000
Stddev	.065317	2.3215	.0004474	.0006443	.650099	.0074776	.0212498
%RSD	1.068987	.9509685	.5991563	16.31944	212.8406	9.862073	2.544585
#1	6.045155	241.6793	.0743841	.0040254	-.943778	.0813815	.8345621
#2	6.175787	246.2988	.0744329	.0045503	-.328355	.0673205	.8566136
#3	6.109694	244.3932	.0751822	.0032687	.355815	.0787622	.8141242

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.363118	3.430597	.0299642	.0088773	7.825870	4.741508	.0334921
Stddev	.141086	.006014	.0034771	.0001646	.012887	.007060	.0043907
%RSD	3.233604	.1753025	11.60415	1.853813	.1646759	.1489076	13.10964
#1	4.234551	3.435233	.0259553	.0090638	7.828313	4.736328	.0334683
#2	4.340753	3.432757	.0321608	.0087525	7.837361	4.749550	.0291134
#3	4.514051	3.423802	.0317765	.0088157	7.811936	4.738646	.0378947

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5028-02DLX2 Acquired: 12/23/2024 15:41:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK35 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3528922	.3129170	.0477139
Stddev	.0058608	.0020658	.0017898
%RSD	1.660789	.6601824	3.751057
#1	.3461768	.3105422	.0494755
#2	.3569759	.3139096	.0458972
#3	.3555238	.3142992	.0477692

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2049.530	26903.08	2252.208	1761.060	1619.822
Stddev	4.764	76.72	9.873	.659	3.715
%RSD	.2324620	.2851669	.4383497	.0374128	.2293766
#1	2054.385	26989.81	2262.507	1761.742	1623.909
#2	2049.344	26875.36	2242.826	1760.428	1616.647
#3	2044.862	26844.07	2251.290	1761.009	1618.912

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5009-21DLX2 Acquired: 12/23/2024 15:45:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJZ3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0310893	.0126268	.1105465	-.001562	.0086559	21.36778	.3013883
Stddev	.0023501	.0024541	.0023861	.000658	.0032944	.18578	.0031276
%RSD	7.559181	19.43602	2.158446	42.13528	38.06002	.8694422	1.037745
#1	.0327213	.0104881	.1130234	-.002203	.0121556	21.37010	.3018086
#2	.0283957	.0120859	.1082630	-.000887	.0081972	21.18085	.2980717
#3	.0321509	.0153062	.1103532	-.001597	.0056148	21.55239	.3042845

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023535	.0012433	705.2887	.0366832	.0751149	.1029151	62.69448
Stddev	.0000265	.0001656	6.7271	.0007661	.0005477	.0082124	.57114
%RSD	1.126138	13.31689	.9538131	2.088346	.7291705	7.979751	.9109966
#1	.0023838	.0013846	705.4105	.0369968	.0757319	.0946580	62.96031
#2	.0023424	.0010611	698.5014	.0372427	.0749267	.1030053	62.03887
#3	.0023344	.0012842	711.9541	.0358101	.0746861	.1110820	63.08426

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.183012	92.43127	.0532260	.0042685	-1.03467	.0574682	.2689804
Stddev	.067017	1.05816	.0003406	.0005343	.39304	.0052067	.0135159
%RSD	1.083887	1.144808	.6399547	12.51823	37.98642	9.060220	5.024860
#1	6.187272	92.67607	.0536191	.0048106	-.99210	.0604376	.2539500
#2	6.113967	91.27217	.0530198	.0042528	-.66466	.0514561	.2728561
#3	6.247798	93.34558	.0530390	.0037422	-1.44726	.0605108	.2801350

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.395309	3.541662	.0253063	.0039375	2.426365	5.491851	.0163962
Stddev	.026654	.006051	.0010752	.0002398	.012521	.057148	.0018291
%RSD	.6064168	.1708521	4.248641	6.090600	.5160221	1.040600	11.15559
#1	4.366551	3.538583	.0240851	.0036610	2.430326	5.534987	.0180429
#2	4.419183	3.548633	.0257232	.0040893	2.412343	5.427035	.0167182
#3	4.400193	3.537770	.0261106	.0040621	2.436426	5.513530	.0144275

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5009-21DLX2 Acquired: 12/23/2024 15:45:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJZ3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3423601	.5687549	.0446350
Stddev	.0031724	.0043384	.0028208
%RSD	.9266406	.7627919	6.319644
#1	.3428046	.5677076	.0475171
#2	.3389888	.5650360	.0418798
#3	.3452868	.5735211	.0445080

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2102.691	27479.27	2293.514	1790.876	1644.412
Stddev	1.176	167.77	22.062	10.262	2.893
%RSD	.0559499	.6105182	.9619311	.5730008	.1759165
#1	2103.208	27286.61	2276.678	1780.986	1646.584
#2	2103.520	27593.08	2318.489	1801.473	1641.128
#3	2101.344	27558.13	2285.374	1790.167	1645.523

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4984-08DLX5 Acquired: 12/23/2024 15:49:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJT5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004934	.0231649	.0946688	-.025313	.0026818	3.392508	.0334925
Stddev	.004728	.0040558	.0007924	.001597	.0016974	.036293	.0004745
%RSD	95.83581	17.50856	.8369832	6.310103	63.29431	1.069789	1.416592
#1	-.007796	.0266570	.0943428	-.023471	.0009908	3.379910	.0329918
#2	.000524	.0241213	.0955722	-.026322	.0043856	3.433422	.0335500
#3	-.007530	.0187163	.0940914	-.026145	.0026688	3.364194	.0339355

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005715	.0017217	351.3308	.0110466	.0415777	.0158378	19.94774
Stddev	.0000794	.0000971	1.0137	.0001583	.0008655	.0029046	.04502
%RSD	13.88542	5.637897	.2885245	1.433396	2.081647	18.33981	.2256688
#1	.0005368	.0017737	350.4365	.0111633	.0410641	.0191918	19.99912
#2	.0006623	.0016097	352.4319	.0111102	.0410920	.0141434	19.92882
#3	.0005154	.0017817	351.1239	.0108663	.0425769	.0141784	19.91527

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.139994	201.9476	.0144007	-.000318	-1.07556	.0170438	.3597119
Stddev	.006967	.8276	.0004961	.001266	.74918	.0070971	.0187595
%RSD	.3255789	.4098286	3.444652	398.4051	69.65513	41.64012	5.215141
#1	2.136269	202.2441	.0141631	-.000461	-.98607	.0208170	.3382365
#2	2.148032	202.5861	.0149709	.001014	-1.86546	.0088572	.3679951
#3	2.135681	201.0125	.0140681	-.001505	-.37514	.0214573	.3729040

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.110425	.5803411	.0170862	.0032693	3.737683	1.639552	.0067370
Stddev	.145241	.0062533	.0006441	.0003656	.032497	.009381	.0017241
%RSD	13.07973	1.077522	3.769684	11.18366	.8694382	.5721584	25.59164
#1	.957261	.5732729	.0169329	.0036190	3.705625	1.630879	.0047546
#2	1.127844	.5851536	.0177931	.0028896	3.736822	1.649509	.0078865
#3	1.246172	.5825967	.0165325	.0032994	3.770602	1.638269	.0075700

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4984-08DLX5 Acquired: 12/23/2024 15:49:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJT5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0393104	.0940777	.0112296
Stddev	.0019203	.0004765	.0017569
%RSD	4.884967	.5064540	15.64483
#1	.0373880	.0935322	.0114577
#2	.0412286	.0944124	.0093699
#3	.0393147	.0942885	.0128614

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1962.657	25740.75	2136.820	1682.692	1663.240
Stddev	15.363	87.30	19.484	9.842	12.681
%RSD	.7827578	.3391393	.9118135	.5849181	.7624233
#1	1979.414	25664.88	2149.641	1674.893	1677.624
#2	1949.238	25721.21	2114.399	1679.432	1653.676
#3	1959.317	25836.16	2146.420	1693.751	1658.421

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4983-20DLX5 Acquired: 12/23/2024 15:53:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJH0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005135	.0312685	.0422828	-.030817	.0014044	4.067683	.0481763
Stddev	.001956	.0046109	.0007382	.002536	.0042751	.013986	.0023402
%RSD	38.08330	14.74631	1.745814	8.228557	304.4156	.3438391	4.857589
#1	-.004524	.0259926	.0422413	-.030477	.0063251	4.083668	.0490037
#2	-.007323	.0332862	.0430409	-.033506	-.001397	4.061684	.0455347
#3	-.003558	.0345266	.0415663	-.028469	-.000715	4.057698	.0499903

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004490	.0006282	654.1922	.0078547	.0485784	.0321812	15.58177
Stddev	.0001616	.0000550	.9367	.0003466	.0001804	.0025583	.05397
%RSD	35.99084	8.749609	.1431807	4.412664	.3714398	7.949646	.3463869
#1	.0003949	.0006462	655.2725	.0074716	.0487620	.0297716	15.63890
#2	.0006307	.0005665	653.6069	.0079459	.0484013	.0348659	15.53164
#3	.0003214	.0006720	653.6971	.0081465	.0485718	.0319061	15.57475

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.952326	43.51719	.0131892	-.000461	-.965114	.0119867	.1031453
Stddev	.007419	.08663	.0002793	.000777	.577729	.0062541	.0013329
%RSD	.2512962	.1990813	2.117350	168.4451	59.86125	52.17527	1.292225
#1	2.949557	43.54618	.0128709	-.001065	-.970746	.0056472	.1036453
#2	2.946690	43.41977	.0133931	-.000733	-1.54001	.0121611	.1041558
#3	2.960731	43.58561	.0133035	.000415	-.38459	.0181518	.1016347

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3624774	.6679291	.0076609	.0025518	.8024161	1.898233	.0084816
Stddev	.0244771	.0036219	.0017353	.0003469	.0008384	.012595	.0005433
%RSD	6.752715	.5422535	22.65145	13.59217	.1044900	.6635205	6.405015
#1	.3883974	.6702652	.0067384	.0029081	.8018462	1.912684	.0087176
#2	.3397583	.6697652	.0096626	.0025322	.8033788	1.892429	.0078603
#3	.3592763	.6637569	.0065817	.0022152	.8020232	1.889587	.0088670

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4983-20DLX5 Acquired: 12/23/2024 15:53:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJH0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0495131	.4773864	.0099081
Stddev	.0053356	.0013887	.0042008
%RSD	10.77609	.2908990	42.39708
#1	.0483483	.4786581	.0141706
#2	.0448562	.4759046	.0097820
#3	.0553349	.4775966	.0057719

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1968.607	25749.77	2140.505	1675.822	1658.423
Stddev	3.393	74.80	14.102	9.853	.776
%RSD	.1723413	.2904823	.6588053	.5879222	.0467787
#1	1964.733	25727.50	2124.432	1686.148	1657.541
#2	1970.040	25688.63	2146.287	1666.524	1659.001
#3	1971.048	25833.17	2150.798	1674.794	1658.727

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCV002 Acquired: 12/23/2024 15:57:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV002 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.061502	4.899265	24.97157	4.987082	4.940864	405.5304	10.23573
Stddev	.025083	.024881	.17605	.038422	.029250	3.4500	.06766
%RSD	.4955560	.5078509	.7049918	.7704388	.5919927	.8507463	.6610630
#1	5.039703	4.870760	24.76846	4.943029	4.907875	401.5573	10.15768
#2	5.055888	4.910412	25.06577	5.004554	4.951086	407.7693	10.27792
#3	5.088916	4.916624	25.08047	5.013664	4.963630	407.2646	10.27158

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5105178	2.502524	410.2599	15.60108	2.510902	15.25956	416.1910
Stddev	.0041844	.015879	2.5778	.00562	.017865	.10823	3.0072
%RSD	.8196326	.6345308	.6283296	.0360546	.7114905	.7092520	.7225453
#1	.5070475	2.484230	407.2911	15.60163	2.490338	15.13483	412.7187
#2	.5151644	2.510604	411.5580	15.60642	2.522595	15.31529	417.9389
#3	.5093416	2.512738	411.9306	15.59521	2.519773	15.32857	417.9155

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.19655	411.6973	2.537109	1.305591	412.0913	2.559870	15.31654
Stddev	.12310	3.3915	.014989	.003268	.6536	.033993	.13515
%RSD	.8100589	.8237775	.5907773	.2503405	.1586165	1.327930	.8823784
#1	15.05810	407.9145	2.519810	1.303786	411.3460	2.521181	15.20609
#2	15.29366	414.4661	2.545285	1.309364	412.3602	2.573476	15.27627
#3	15.23789	412.7113	2.546232	1.303623	412.5675	2.584952	15.46724

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	153.7266	5.046465	4.888562	4.927000	5.010294	4.813658	5.051284
Stddev	1.4771	.041757	.051462	.032940	.041263	.046623	.030427
%RSD	.9608886	.8274552	1.052708	.6685578	.8235653	.9685543	.6023690
#1	152.0270	4.998291	4.836405	4.889950	4.962658	4.775421	5.016192
#2	154.7008	5.068784	4.939300	4.938076	5.033237	4.865597	5.067323
#3	154.4520	5.072320	4.889981	4.952975	5.034987	4.799957	5.070336

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCV002 Acquired: 12/23/2024 15:57:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV002 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	5.019106	4.788957	5.134688
Stddev	.032055	.031375	.034863
%RSD	.6386611	.6551428	.6789654
#1	4.982170	4.752747	5.094432
#2	5.039661	4.808063	5.154604
#3	5.035487	4.806061	5.155026

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1764.042	24166.14	2093.303	1511.083	1541.178
Stddev	8.956	100.61	9.815	5.816	8.250
%RSD	.5076974	.4163227	.4688556	.3848831	.5353081
#1	1774.342	24128.66	2103.215	1515.747	1550.538
#2	1759.696	24280.11	2083.589	1512.934	1534.962
#3	1758.088	24089.65	2093.103	1504.566	1538.035

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCB002 Acquired: 12/23/2024 16:10:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB002 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005214	-.002804	-.001236	.0060497	-.000822	.0317602
Stddev	.000649	.001197	.001660	.0022278	.002024	.0167543
%RSD	12.44632	42.67198	134.3278	36.82538	246.0323	52.75258
#1	-.005498	-.002068	.000368	.0036139	-.003046	.0399975
#2	-.005672	-.004185	-.002947	.0065510	.000911	.0124818
#3	-.004471	-.002160	-.001128	.0079841	-.000332	.0428013

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001339	.0001989	.0001321	.0178254	-.001020	.0001203
Stddev	.000135	.0001218	.0000411	.0113203	.001149	.0000819
%RSD	10.08905	61.22026	31.11125	63.50642	112.6440	68.06381
#1	-.001352	.0001129	.0000973	.0198928	-.000381	.0002012
#2	-.001467	.0003382	.0001775	.0279695	-.000333	.0000375
#3	-.001198	.0001456	.0001217	.0056139	-.002346	.0001222

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002941	.0262826	.0022393	.0647686	.0006934	.0007293
Stddev	.008780	.0646474	.0011820	.0359613	.0005680	.0005379
%RSD	298.4879	245.9700	52.78194	55.52276	81.92185	73.75392
#1	-.009071	-.008160	.0016978	.1055329	.0012498	.0006121
#2	-.006870	-.013851	.0035950	.0375365	.0001144	.0002597
#3	.007117	.100859	.0014252	.0512364	.0007158	.0013162

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.861025	.0024722	.0035927	-.095416	-.000577	-.003280
Stddev	.870854	.0098272	.0103203	.132710	.002718	.003127
%RSD	101.1416	397.5135	287.2564	139.0853	471.1086	95.35714
#1	-1.18358	-.004513	.0123356	-.016407	-.001425	-.006045
#2	-1.52458	.013709	-.007792	-.248632	.002464	.000114
#3	.12509	-.001780	.006234	-.021210	-.002770	-.003908

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCB002 Acquired: 12/23/2024 16:10:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB002 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006665	-.006644	-.075099	.0002908	-.002364	.0002221
Stddev	.0002604	.007360	.000301	.0002049	.000720	.0001038
%RSD	39.07541	110.7791	.4013442	70.45988	30.47799	46.70800
#1	.0009448	-.000775	-.074779	.0003066	-.003074	.0002659
#2	.0006260	-.004255	-.075377	.0004873	-.001633	.0002968
#3	.0004287	-.014902	-.075142	.0000784	-.002384	.0001037

Elem	Li6707
Units	ppm
Avg	F .0150740
Stddev	.0008735
%RSD	5.794380
#1	.0142623
#2	.0159982
#3	.0149616

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2028.530	26477.48	2132.566	1743.862	1837.385
Stddev	.217	130.99	7.592	9.920	2.984
%RSD	.0106911	.4947061	.3559882	.5688783	.1624095
#1	2028.639	26485.50	2137.420	1748.676	1839.874
#2	2028.670	26604.27	2136.461	1750.456	1834.077
#3	2028.280	26342.66	2123.818	1732.453	1838.203

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5039-07DLX2 Acquired: 12/23/2024 16:14:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0284620	.0042006	.0996210	.0027436	.0136285	21.85918	.3232399
Stddev	.0032811	.0045708	.0009909	.0028909	.0021512	.07911	.0018717
%RSD	11.52788	108.8145	.9946495	105.3656	15.78443	.3619152	.5790460
#1	.0267303	.0012868	.0984968	-.000324	.0125104	21.82864	.3253638
#2	.0322461	.0018463	.1003675	.005417	.0122667	21.94901	.3225247
#3	.0264095	.0094686	.0999987	.003138	.0161085	21.79990	.3218313

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024458	.0016976	483.1678	.0355096	.0699030	.1456843	71.01772
Stddev	.0001159	.0001744	.9245	.0013996	.0001786	.0063226	.26476
%RSD	4.739154	10.27115	.1913429	3.941324	.2554999	4.339944	.3728110
#1	.0025612	.0015150	483.1808	.0338990	.0701004	.1444618	70.71270
#2	.0024468	.0018624	484.0858	.0364301	.0698560	.1525290	71.15237
#3	.0023294	.0017154	482.2369	.0361995	.0697525	.1400623	71.18810

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.139241	99.98588	.0585420	.0027369	-.749720	.0623934	.2163983
Stddev	.018898	.67862	.0007635	.0009630	.457078	.0028459	.0048901
%RSD	.4565454	.6787192	1.304238	35.18416	60.96654	4.561162	2.259782
#1	4.120033	99.23654	.0588113	.0016635	-.227953	.0614649	.2111857
#2	4.157812	100.5590	.0576803	.0035248	-.941756	.0601277	.2208848
#3	4.139880	100.1621	.0591343	.0030225	-1.07945	.0655875	.2171242

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.359786	3.831682	.0147508	.0035776	1.002381	5.361440	.0151970
Stddev	.147253	.010958	.0019807	.0001464	.002208	.032980	.0007239
%RSD	4.382805	.2859720	13.42803	4.091326	.2202551	.6151312	4.763717
#1	3.289083	3.825213	.0146076	.0034399	1.004108	5.396509	.0143709
#2	3.261218	3.825500	.0167992	.0035615	1.003143	5.356764	.0157210
#3	3.529056	3.844334	.0128455	.0037313	.999894	5.331048	.0154990

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5039-07DLX2 Acquired: 12/23/2024 16:14:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6829972	.3930667	.0453415
Stddev	.0122013	.0012200	.0012268
%RSD	1.786432	.3103769	2.705622
#1	.6964332	.3939612	.0445812
#2	.6799500	.3935619	.0446866
#3	.6726082	.3916770	.0467568

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2192.107	28755.36	2398.793	1879.894	1708.314
Stddev	5.398	154.95	14.867	13.991	2.768
%RSD	.2462604	.5388610	.6197791	.7442360	.1620279
#1	2185.881	28907.79	2382.080	1885.638	1705.120
#2	2194.965	28598.01	2403.754	1863.946	1709.810
#3	2195.476	28760.27	2410.545	1890.100	1710.012

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5039-08DLX2 Acquired: 12/23/2024 16:18:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ7D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0322509	.0032954	.0987396	.0042298	.0113530	22.16409	.3282991
Stddev	.0039795	.0005150	.0019602	.0011560	.0056097	.07545	.0022535
%RSD	12.33915	15.62672	1.985242	27.32997	49.41141	.3404272	.6864026
#1	.0361771	.0029609	.1008625	.0052661	.0177827	22.24067	.3290748
#2	.0323554	.0030369	.0969981	.0044402	.0074580	22.08982	.3257603
#3	.0282202	.0038884	.0983581	.0029830	.0088182	22.16178	.3300623

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024883	.0016442	489.7892	.0357826	.0719836	.1391883	72.15277
Stddev	.0000878	.0000448	2.6685	.0001703	.0001441	.0012188	.32644
%RSD	3.528450	2.727889	.5448302	.4759151	.2002016	.8756616	.4524299
#1	.0025541	.0015940	492.4362	.0358272	.0718189	.1403478	72.41282
#2	.0025222	.0016585	489.8319	.0355944	.0720865	.1379178	72.25906
#3	.0023886	.0016802	487.0997	.0359261	.0720455	.1392994	71.78643

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.209847	101.8578	.0592873	.0023248	-1.00241	.0589461	.2349280
Stddev	.024214	.5308	.0010220	.0000955	.66207	.0047271	.0097593
%RSD	.5751832	.5211129	1.723880	4.107497	66.04764	8.019303	4.154175
#1	4.234407	102.1663	.0581301	.0022278	-.42257	.0595786	.2298732
#2	4.209140	102.1621	.0596652	.0023279	-1.72381	.0539345	.2461779
#3	4.185994	101.2449	.0600666	.0024187	-.86085	.0633250	.2287329

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.477463	3.913771	.0165987	.0030531	1.018662	5.405328	.0138068
Stddev	.076988	.009243	.0051727	.0001513	.001300	.077188	.0009397
%RSD	2.213916	.2361590	31.16307	4.955342	.1276240	1.427992	6.806020
#1	3.564185	3.904536	.0222112	.0031951	1.019942	5.475551	.0127929
#2	3.417172	3.913754	.0120230	.0030702	1.017343	5.417750	.0146485
#3	3.451033	3.923021	.0155618	.0028940	1.018700	5.322683	.0139791

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5039-08DLX2 Acquired: 12/23/2024 16:18:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ7D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6849268	.3979761	.0466362
Stddev	.0050469	.0031962	.0051408
%RSD	.7368470	.8031038	11.02320
#1	.6903775	.4011389	.0437016
#2	.6804159	.3980418	.0525722
#3	.6839868	.3947476	.0436349

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2153.610	28312.61	2366.731	1849.690	1673.916
Stddev	2.788	37.12	26.451	7.457	4.996
%RSD	.1294769	.1311100	1.117617	.4031278	.2984446
#1	2156.439	28305.24	2343.241	1845.258	1678.289
#2	2153.528	28352.87	2361.570	1845.512	1674.988
#3	2150.864	28279.74	2395.382	1858.298	1668.472

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5039-07LDLX10 Acquired: 12/23/2024 16:21:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ7L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004573	.0179097	.0252990	-.016129	.0039052	4.776188	.0681277
Stddev	.001619	.0025234	.0013827	.008844	.0040828	.026250	.0009337
%RSD	35.39457	14.08935	5.465549	54.83611	104.5483	.5495998	1.370456
#1	-.005110	.0168246	.0252149	-.026313	-.000377	4.793808	.0686612
#2	-.002754	.0207942	.0267219	-.010374	.007754	4.788736	.0686723
#3	-.005855	.0161105	.0239603	-.011700	.004339	4.746019	.0670497

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006242	.0002591	106.6016	.0068141	.0343526	.0281447	15.86352
Stddev	.0000364	.0000425	.1591	.0010690	.0007435	.0062553	.04184
%RSD	5.832975	16.40513	.1492680	15.68763	2.164409	22.22554	.2637357
#1	.0006228	.0002247	106.6146	.0076523	.0347173	.0267725	15.81607
#2	.0005885	.0003066	106.7538	.0071797	.0334971	.0226894	15.87939
#3	.0006613	.0002460	106.4364	.0056103	.0348434	.0349722	15.89509

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9265396	22.46782	.0108530	.0006561	-.688947	.0203117	.0530476
Stddev	.0032421	.10227	.0003861	.0000811	.638038	.0082817	.0103898
%RSD	.3499129	.4551669	3.557661	12.36155	92.61071	40.77319	19.58578
#1	.9300144	22.49289	.0111235	.0006987	-.155771	.0167402	.0413562
#2	.9235958	22.35535	.0104108	.0005626	-1.39586	.0297798	.0565627
#3	.9260085	22.55523	.0110248	.0007070	-.51521	.0144149	.0612238

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4238861	.7438014	.0012507	.0029254	.2082101	1.164588	.0038115
Stddev	.1304924	.0063761	.0025047	.0003506	.0062002	.008381	.0010104
%RSD	30.78478	.8572343	200.2649	11.98416	2.977875	.7196949	26.50891
#1	.5715776	.7495537	-.000349	.0028873	.2153603	1.168807	.0048478
#2	.3241814	.7369455	-.000036	.0032935	.2049499	1.154935	.0037575
#3	.3758992	.7449050	.004137	.0025954	.2043201	1.170022	.0028292

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5039-07LDLX10 Acquired: 12/23/2024 16:21:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ7L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1483325	.0853950	.0103239
Stddev	.0023435	.0003033	.0008943
%RSD	1.579894	.3551279	8.662536
#1	.1478736	.0852697	.0106461
#2	.1462523	.0857409	.0093132
#3	.1508714	.0851745	.0110125

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2073.812	27157.06	2215.861	1786.295	1802.150
Stddev	10.540	89.32	19.023	11.650	10.237
%RSD	.5082320	.3289183	.8584879	.6521821	.5680468
#1	2062.012	27054.34	2197.276	1773.059	1790.329
#2	2077.135	27216.48	2235.293	1794.991	1808.001
#3	2082.290	27200.36	2215.014	1790.836	1808.119

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5039-09DLX2 Acquired: 12/23/2024 16:26:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ7S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0727572	.0452282	.1141201	.0818997	.0931026	24.03185	2.093733
Stddev	.0040285	.0021335	.0011500	.0008133	.0000691	.20683	.014432
%RSD	5.536859	4.717241	1.007690	.9930847	.0742333	.8606459	.6892751
#1	.0771322	.0445936	.1131005	.0828387	.0931304	23.81025	2.078684
#2	.0719382	.0434840	.1138931	.0814456	.0930239	24.21978	2.107455
#3	.0692011	.0476070	.1153666	.0814148	.0931536	24.06552	2.095059

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0474865	.0496811	482.3594	.2221336	.5399411	.3560184	71.87935
Stddev	.0002444	.0001172	2.5379	.0006354	.0015479	.0022996	.41629
%RSD	.5146223	.2358532	.5261485	.2860471	.2866761	.6459317	.5791570
#1	.0474711	.0495994	479.4732	.2225004	.5415352	.3533637	71.40685
#2	.0477382	.0496285	484.2421	.2225004	.5384440	.3573980	72.19214
#3	.0472502	.0498153	483.3631	.2213999	.5398442	.3572936	72.03905

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.582487	100.3670	.5438631	.0345403	-.739294	.5134417	.6437337
Stddev	.036691	.9641	.0011036	.0002689	.513837	.0173974	.0060992
%RSD	.8006828	.9605324	.2029106	.7786395	69.50378	3.388383	.9474771
#1	4.540522	99.3078	.5444361	.0347565	-.382079	.5000446	.6493063
#2	4.608510	101.1933	.5425909	.0342391	-.507625	.5071766	.6372178
#3	4.598430	100.5998	.5445623	.0346253	-1.32818	.5331039	.6446770

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.483210	3.855071	.0151044	.0028704	1.000903	5.771222	.0138711
Stddev	.107777	.009648	.0024996	.0003366	.005204	.029261	.0014169
%RSD	3.094178	.2502562	16.54889	11.72561	.5199042	.5070157	10.21498
#1	3.551845	3.860322	.0139516	.0025000	1.004349	5.778979	.0130204
#2	3.538796	3.860954	.0133892	.0029539	1.003442	5.795822	.0130862
#3	3.358988	3.843937	.0179724	.0031574	.994917	5.738864	.0155068

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5039-09DLX2 Acquired: 12/23/2024 16:26:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ7S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7021624	.3907131	.0438329
Stddev	.0063198	.0014870	.0041187
%RSD	.9000449	.3805837	9.396418
#1	.6961035	.3890081	.0467368
#2	.7016695	.3917414	.0456427
#3	.7087142	.3913897	.0391191

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2182.621	28657.01	2394.483	1870.379	1694.721
Stddev	5.619	80.31	10.743	.744	2.730
%RSD	.2574534	.2802478	.4486514	.0397674	.1611057
#1	2179.063	28638.78	2392.364	1870.975	1691.726
#2	2189.099	28587.38	2384.958	1869.545	1697.071
#3	2179.702	28744.87	2406.128	1870.616	1695.367

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5039-16DLX2 Acquired: 12/23/2024 16:29:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKL8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0283264	-.000631	.1108515	.0126707	.0169476	23.56466	.2942591
Stddev	.0017278	.003689	.0017858	.0033106	.0056175	.03466	.0009652
%RSD	6.099720	584.2709	1.611011	26.12820	33.14619	.1470842	.3279984
#1	.0264761	.003302	.1121109	.0096060	.0210414	23.58602	.2949029
#2	.0298978	-.001180	.1088077	.0122241	.0192580	23.58330	.2947249
#3	.0286052	-.004016	.1116358	.0161819	.0105433	23.52467	.2931493

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030781	.0013843	526.5025	.0390683	.0709183	.0911562	87.63542
Stddev	.0000889	.0000505	1.6423	.0007268	.0008461	.0021142	.10983
%RSD	2.887070	3.644818	.3119313	1.860366	1.193010	2.319341	.1253278
#1	.0030684	.0014226	528.3204	.0382560	.0718156	.0900675	87.74169
#2	.0029945	.0014032	526.0610	.0396571	.0701351	.0935929	87.64223
#3	.0031715	.0013271	525.1260	.0392917	.0708043	.0898081	87.52235

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.697793	238.2402	.0577228	.0035725	-.589211	.0836824	.3433279
Stddev	.007218	.6465	.0009597	.0002206	.630902	.0093237	.0028883
%RSD	.1952072	.2713588	1.662526	6.175934	107.0757	11.14182	.8412714
#1	3.705893	238.9607	.0579875	.0038260	-1.12375	.0809385	.3400202
#2	3.692043	237.7111	.0585222	.0034240	-.75058	.0940702	.3446123
#3	3.695442	238.0487	.0566585	.0034675	.10670	.0760385	.3453513

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.929945	3.606482	.0189812	.0040694	.9178695	5.712012	.0165653
Stddev	.071865	.006626	.0024011	.0004620	.0041557	.012182	.0018779
%RSD	2.452791	.1837298	12.64992	11.35240	.4527573	.2132687	11.33627
#1	2.951065	3.613145	.0167987	.0042222	.9150356	5.725810	.0185404
#2	2.849886	3.599893	.0215532	.0035503	.9159328	5.702746	.0163526
#3	2.988884	3.606407	.0185916	.0044355	.9226400	5.707479	.0148028

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5039-16DLX2 Acquired: 12/23/2024 16:29:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKL8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3363689	.1813580	.0468555
Stddev	.0004485	.0006347	.0034431
%RSD	.1333386	.3499715	7.348430
#1	.3360970	.1820842	.0429857
#2	.3368866	.1810803	.0495803
#3	.3361231	.1809094	.0480004

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2158.235	28262.32	2368.034	1845.029	1678.282
Stddev	7.133	87.02	12.035	5.788	5.040
%RSD	.3304952	.3078925	.5082412	.3137182	.3003346
#1	2154.644	28239.64	2354.137	1839.762	1672.848
#2	2153.611	28188.89	2374.984	1844.098	1679.191
#3	2166.450	28358.43	2374.981	1851.226	1682.805

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5180-01DLX4 Acquired: 12/23/2024 16:33:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCYW9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2612144	-.133731	.1278111	.1853724	.0626960	54.39113	.8458765
Stddev	.0039434	.003118	.0007845	.0024162	.0035519	.27432	.0060197
%RSD	1.509657	2.331243	.6138101	1.303444	5.665233	.5043386	.7116486
#1	.2583783	-.135208	.1279584	.1863195	.0585984	54.63645	.8520120
#2	.2657176	-.135835	.1269634	.1826261	.0648960	54.44201	.8456377
#3	.2595473	-.130149	.1285115	.1871716	.0645937	54.09494	.8399798

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0059447	.0024989	22.52062	.1335551	.1196720	.1832151	319.8103
Stddev	.0000824	.0001314	.07477	.0008170	.0008795	.0033892	1.1317
%RSD	1.386105	5.259915	.3320069	.6117063	.7349168	1.849848	.3538712
#1	.0060358	.0024089	22.59433	.1328456	.1190639	.1793320	320.9031
#2	.0058753	.0024381	22.52270	.1344483	.1192716	.1847346	319.8846
#3	.0059228	.0026498	22.44483	.1333714	.1206804	.1855786	318.6433

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.60374	33.80252	.1202556	.0118167	-.878976	.3559816	.3436356
Stddev	.08162	.14295	.0008965	.0007034	.528021	.0083500	.0054810
%RSD	.4636311	.4228996	.7454727	5.952364	60.07226	2.345639	1.594999
#1	17.69316	33.91086	.1195824	.0124660	-1.20523	.3636090	.3384452
#2	17.58479	33.64050	.1212732	.0110695	-.26978	.3572757	.3430947
#3	17.53326	33.85619	.1199112	.0119146	-1.16192	.3470600	.3493670

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.074464	2.595960	-.052552	-.000069	.2021095	2.538028	.0257577
Stddev	.175401	.005530	.002621	.000161	.0060684	.020082	.0018118
%RSD	2.172299	.2130407	4.988322	232.2024	3.002509	.7912306	7.033988
#1	8.275386	2.590592	-.055256	-.000244	.1951457	2.550899	.0237858
#2	7.996109	2.595649	-.050022	.000073	.2049177	2.548297	.0261386
#3	7.951899	2.601639	-.052376	-.000037	.2062651	2.514888	.0273489

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5180-01DLX4 Acquired: 12/23/2024 16:33:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCYW9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5620164	-.184522	.0534683
Stddev	.0052233	.000599	.0021718
%RSD	.9293853	.3244110	4.061940
#1	.5680474	-.185169	.0554426
#2	.5589442	-.184410	.0511419
#3	.5590577	-.183988	.0538202

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2161.655	28058.93	2285.119	1854.031	1868.857
Stddev	4.354	152.40	29.200	15.109	2.196
%RSD	.2014081	.5431406	1.277850	.8149426	.1175030
#1	2156.714	27994.12	2270.230	1838.228	1866.711
#2	2163.324	27949.65	2266.363	1855.529	1871.100
#3	2164.928	28233.02	2318.763	1868.335	1868.761

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5180-03DLX4 Acquired: 12/23/2024 16:37:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCYX1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3684136	-.130532	.1173124	.1790445	.0618933	71.36608	1.188434
Stddev	.0047431	.000610	.0010879	.0040255	.0021061	.10988	.002089
%RSD	1.287430	.4672985	.9273529	2.248310	3.402762	.1539737	.1757514
#1	.3629446	-.131129	.1176056	.1750247	.0621363	71.34457	1.190389
#2	.3708943	-.130557	.1161079	.1790331	.0638674	71.26854	1.186233
#3	.3714018	-.129910	.1182236	.1830756	.0596763	71.48513	1.188680

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0056599	.0027002	20.38726	.2432190	.1502870	.3436109	306.5915
Stddev	.0000575	.0001610	.04295	.0010421	.0007687	.0066431	.2719
%RSD	1.015450	5.964134	.2106804	.4284732	.5115116	1.933331	.0886734
#1	.0056466	.0026274	20.43009	.2436303	.1494598	.3508322	306.5296
#2	.0056102	.0028847	20.38752	.2439927	.1504215	.3377595	306.3559
#3	.0057228	.0025883	20.34418	.2420340	.1509795	.3422410	306.8890

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.62396	48.67022	.1753824	.0100385	-.228645	.5403198	.2929230
Stddev	.04464	.18162	.0003311	.0004807	.258600	.0043518	.0149439
%RSD	.2532750	.3731583	.1888043	4.788089	113.1014	.8054138	5.101646
#1	17.57589	48.60261	.1750090	.0101577	-.442800	.5385234	.2924962
#2	17.63188	48.53211	.1754981	.0104483	.058647	.5371537	.3080757
#3	17.66410	48.87595	.1756403	.0095094	-.301781	.5452822	.2781970

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.301398	2.006593	-.057653	-.000151	.1804981	2.885376	.0248911
Stddev	.039398	.002834	.003515	.000214	.0038117	.020035	.0022271
%RSD	.4235742	.1412127	6.097181	141.9101	2.111744	.6943497	8.947351
#1	9.293670	2.009797	-.054366	-.000224	.1845021	2.890052	.0231984
#2	9.344088	2.005564	-.057234	-.000318	.1800789	2.863418	.0274140
#3	9.266436	2.004418	-.061359	.000090	.1769134	2.902660	.0240607

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5180-03DLX4 Acquired: 12/23/2024 16:37:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCYX1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7105369	-.170852	.0609448
Stddev	.0079630	.000413	.0031500
%RSD	1.120705	.2417045	5.168572
#1	.7137693	-.170550	.0576394
#2	.7014659	-.171322	.0612829
#3	.7163754	-.170683	.0639121

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2138.273	27681.83	2262.610	1831.689	1832.524
Stddev	1.997	94.78	14.754	6.068	2.374
%RSD	.0933754	.3423765	.6520787	.3312524	.1295531
#1	2137.686	27681.77	2255.862	1825.467	1835.265
#2	2136.635	27587.09	2279.532	1832.011	1831.169
#3	2140.497	27776.64	2252.437	1837.589	1831.137

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5180-04DLX5 Acquired: 12/23/2024 16:41:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCYX2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1244900	-.119189	.1971117	.1736406	.0608865	27.48356	1.217853
Stddev	.0062969	.002388	.0011972	.0011248	.0030191	.10816	.005244
%RSD	5.058141	2.003443	.6073880	.6477977	4.958621	.3935620	.4305774
#1	.1175095	-.117820	.1959788	.1726645	.0587829	27.60839	1.223500
#2	.1297425	-.121946	.1969920	.1733866	.0643459	27.42495	1.216921
#3	.1262180	-.117801	.1983642	.1748707	.0595307	27.41736	1.213138

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045475	.0036008	15.46486	.0597382	.0993300	.2382965	293.4298
Stddev	.0002470	.0000547	.07642	.0007572	.0004393	.0018634	1.0742
%RSD	5.430440	1.519992	.4941673	1.267538	.4422837	.7819589	.3660870
#1	.0046783	.0035439	15.55310	.0605962	.0988396	.2362218	294.0715
#2	.0042627	.0036056	15.41979	.0594549	.0996877	.2388401	294.0282
#3	.0047015	.0036530	15.42169	.0591636	.0994626	.2398277	292.1897

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	21.63119	16.94451	.0714074	.0433326	-.376543	.1457444	.4347215
Stddev	.07841	.16125	.0006938	.0015208	.217153	.0018157	.0164692
%RSD	.3624679	.9516441	.9716151	3.509629	57.67003	1.245817	3.788445
#1	21.71495	16.93767	.0721897	.0420406	-.563031	.1478410	.4513907
#2	21.61906	16.78679	.0711659	.0450086	-.428462	.1446840	.4184599
#3	21.55955	17.10908	.0708667	.0429486	-.138137	.1447083	.4343140

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.152403	1.797810	-.061936	-.000750	.2043205	1.577892	.0226679
Stddev	.124578	.006225	.004769	.000354	.0050718	.010416	.0008753
%RSD	1.741765	.3462531	7.699764	47.26282	2.482289	.6600907	3.861510
#1	7.023888	1.803839	-.067435	-.000437	.1985607	1.583004	.0220339
#2	7.272631	1.791406	-.058943	-.000677	.2081178	1.565908	.0236666
#3	7.160689	1.798186	-.059429	-.001135	.2062831	1.584764	.0223033

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5180-04DLX5 Acquired: 12/23/2024 16:41:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCYX2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3994755	-.172553	.0348150
Stddev	.0043761	.001446	.0025443
%RSD	1.095462	.8380483	7.308097
#1	.4006122	-.173050	.0324043
#2	.3946433	-.173685	.0374747
#3	.4031712	-.170924	.0345661

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2128.047	27536.73	2227.524	1818.539	1883.058
Stddev	4.897	54.36	12.292	5.029	4.614
%RSD	.2301209	.1974209	.5518167	.2765214	.2450008
#1	2133.647	27522.36	2217.222	1821.491	1888.075
#2	2125.922	27491.00	2241.130	1821.394	1882.099
#3	2124.571	27596.84	2224.219	1812.733	1878.999

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5180-05DLX8 Acquired: 12/23/2024 16:45:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCYX3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1727602	-.064109	.0908377	.0934835	.0311365	27.56073	.5781977
Stddev	.0017545	.006830	.0008186	.0032748	.0017452	.28713	.0067827
%RSD	1.015553	10.65384	.9011547	3.503032	5.605054	1.041791	1.173080
#1	.1744279	-.070721	.0914036	.0902859	.0331516	27.60324	.5809773
#2	.1729225	-.064525	.0898991	.0968303	.0301202	27.82422	.5831490
#3	.1709302	-.057080	.0912104	.0933342	.0301375	27.25471	.5704667

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0025967	.0019653	10.65234	.0816324	.0634173	.1726193	152.3868
Stddev	.0001414	.0000850	.12073	.0006477	.0003848	.0040469	1.7292
%RSD	5.446026	4.323841	1.133334	.7933877	.6067205	2.344389	1.134712
#1	.0027059	.0019480	10.76816	.0821592	.0634567	.1679985	152.9943
#2	.0024370	.0018903	10.66162	.0818288	.0637809	.1755323	153.7302
#3	.0026472	.0020576	10.52724	.0809093	.0630144	.1743272	150.4359

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.32144	18.61084	.0719617	.0054263	-.719999	.1943084	.1598083
Stddev	.09723	.23206	.0010056	.0005148	.758926	.0152989	.0165327
%RSD	.9420454	1.246884	1.397358	9.487354	105.4066	7.873506	10.34531
#1	10.35666	18.80943	.0714921	.0049504	-.832899	.2076506	.1788863
#2	10.39616	18.66733	.0712769	.0059728	-1.41615	.1976646	.1508623
#3	10.21151	18.35575	.0731162	.0053559	.08905	.1776101	.1496763

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.435059	.8831737	-.029875	.0012313	.1492220	1.511695	.0121970
Stddev	.050047	.0039190	.002348	.0000715	.0008950	.020893	.0009355
%RSD	2.055258	.4437427	7.858124	5.806133	.5997978	1.382077	7.670076
#1	2.414148	.8787241	-.028684	.0013048	.1490050	1.512574	.0120530
#2	2.398859	.8861123	-.032580	.0012270	.1484554	1.532134	.0113419
#3	2.492170	.8846846	-.028362	.0011620	.1502055	1.490376	.0131962

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5180-05DLX8 Acquired: 12/23/2024 16:45:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCYX3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3397215	-.081704	.0263092
Stddev	.0024942	.001227	.0036552
%RSD	.7341967	1.501269	13.89312
#1	.3376484	-.081962	.0221169
#2	.3424895	-.082780	.0279826
#3	.3390264	-.080368	.0288280

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2115.768	27412.43	2248.225	1810.742	1868.404
Stddev	3.450	114.95	30.708	18.153	2.686
%RSD	.1630641	.4193501	1.365876	1.002508	.1437507
#1	2112.942	27317.33	2242.983	1790.054	1865.592
#2	2119.613	27379.77	2220.476	1818.163	1870.942
#3	2114.750	27540.17	2281.217	1824.008	1868.679

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5180-06DLX8 Acquired: 12/23/2024 16:49:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCYX4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1338164	-.069488	.0795642	.0983636	.0340737	27.34383	.6591959
Stddev	.0070003	.001799	.0009183	.0029191	.0018525	.14453	.0037951
%RSD	5.231312	2.588435	1.154112	2.967667	5.436795	.5285622	.5757165
#1	.1305250	-.069944	.0785640	.0971598	.0323117	27.29023	.6578629
#2	.1290683	-.071014	.0797593	.1016921	.0339043	27.50750	.6634776
#3	.1418558	-.067505	.0803692	.0962389	.0360051	27.23375	.6562471

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029002	.0015044	8.359636	.0713879	.0603482	.1518770	168.2251
Stddev	.0002388	.0000150	.039949	.0005351	.0002782	.0051163	.6889
%RSD	8.234285	.9946625	.4778815	.7496136	.4609070	3.368707	.4095280
#1	.0029672	.0015088	8.397528	.0717970	.0600707	.1558434	167.8995
#2	.0026350	.0015166	8.317906	.0715845	.0606269	.1461021	169.0165
#3	.0030984	.0014877	8.363474	.0707823	.0603469	.1536856	167.7593

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.53022	18.95879	.0627185	.0053574	-.467783	.2044779	.1992833
Stddev	.03659	.16073	.0002392	.0008506	.812001	.0044193	.0081915
%RSD	.3173152	.8478084	.3813435	15.87745	173.5847	2.161251	4.110485
#1	11.52923	18.92655	.0625452	.0043911	.000885	.2040409	.1898333
#2	11.56730	19.13321	.0629914	.0056879	.001166	.2090994	.2036547
#3	11.49414	18.81663	.0626190	.0059932	-1.40540	.2002933	.2043618

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.362809	1.043820	-.032875	-.000401	.0522989	1.057526	.0117763
Stddev	.105281	.002612	.002223	.000453	.0019033	.002805	.0005899
%RSD	1.963172	.2502733	6.761804	112.8759	3.639180	.2652083	5.008993
#1	5.484213	1.041447	-.030310	-.000604	.0505792	1.057446	.0124574
#2	5.307585	1.046619	-.034240	.000118	.0543438	1.054762	.0114255
#3	5.296630	1.043394	-.034076	-.000717	.0519737	1.060369	.0114461

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5180-06DLX8 Acquired: 12/23/2024 16:49:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCYX4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3293643	-.110852	.0278099
Stddev	.0057244	.000414	.0051803
%RSD	1.738017	.3736351	18.62733
#1	.3308278	-.110799	.0325249
#2	.3342148	-.111291	.0222647
#3	.3230502	-.110467	.0286401

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2098.390	27320.37	2208.407	1805.975	1853.427
Stddev	2.692	98.55	2.844	3.848	3.622
%RSD	.1283003	.3607021	.1287806	.2130844	.1954330
#1	2095.570	27425.79	2209.004	1810.109	1851.449
#2	2098.666	27230.57	2205.312	1802.497	1851.225
#3	2100.934	27304.76	2210.906	1805.319	1857.608

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5180-07DLX8 Acquired: 12/23/2024 16:53:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCYX5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0808820	-.080155	.1149807	.1179792	.0381783	17.32849	.4943321
Stddev	.0016256	.004411	.0023504	.0056538	.0010023	.88167	.0260633
%RSD	2.009848	5.503242	2.044139	4.792223	2.625184	5.087980	5.272422
#1	.0827390	-.084822	.1144704	.1232028	.0393337	18.20871	.5213368
#2	.0801912	-.079588	.1129273	.1119761	.0375433	16.44537	.4693253
#3	.0797160	-.076055	.1175442	.1187588	.0376580	17.33140	.4923340

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031631	.0017696	9.169349	.0303136	.0610327	.1433330	189.8767
Stddev	.0002695	.0001672	.428010	.0003541	.0003952	.0062347	9.0312
%RSD	8.521060	9.446994	4.667838	1.168042	.6475695	4.349816	4.756349
#1	.0034736	.0015927	9.611473	.0299259	.0609653	.1503724	199.2999
#2	.0029897	.0017911	8.757008	.0306198	.0614573	.1385067	181.2967
#3	.0030259	.0019249	9.139567	.0303952	.0606756	.1411199	189.0335

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.86184	9.727909	.0428747	.0078409	-1.81959	.0805264	.2043424
Stddev	.59104	.467250	.0009073	.0005817	.93038	.0146651	.0184524
%RSD	4.982741	4.803187	2.116188	7.419348	51.13120	18.21159	9.030135
#1	12.48547	10.15088	.0433781	.0081961	-.94048	.0924947	.1830357
#2	11.30993	9.22635	.0434187	.0071695	-2.79391	.0641675	.2150909
#3	11.79012	9.80650	.0418273	.0081570	-1.72436	.0849170	.2149006

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.653189	1.092703	-.033682	-.000362	.1301649	.9565983	.0147130
Stddev	.316516	.002103	.003919	.000600	.0039938	.0415864	.0022047
%RSD	11.92965	.1924812	11.63473	165.8674	3.068265	4.347325	14.98490
#1	2.970510	1.090360	-.029259	-.000921	.1259266	1.001483	.0168568
#2	2.337484	1.093320	-.036721	.000271	.1338582	.919376	.0148303
#3	2.651572	1.094429	-.035065	-.000435	.1307098	.948936	.0124520

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5180-07DLX8 Acquired: 12/23/2024 16:53:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCYX5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1460185	-.133099	.0246778
Stddev	.0102487	.005850	.0064275
%RSD	7.018765	4.395180	26.04563
#1	.1571537	-.139070	.0303381
#2	.1369807	-.127378	.0176903
#3	.1439212	-.132850	.0260049

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2092.215	27242.88	2179.648	1806.287	1860.934
Stddev	5.625	82.31	81.259	6.322	6.763
%RSD	.2688561	.3021213	3.728059	.3500008	.3634265
#1	2087.512	27259.58	2090.574	1799.036	1855.491
#2	2098.446	27153.50	2249.726	1809.185	1868.505
#3	2090.687	27315.55	2198.643	1810.641	1858.805

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5180-08DLX8 Acquired: 12/23/2024 16:57:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCYX6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1214305	-.062212	.0787288	.0948772	.0296667	27.96856	.5096963
Stddev	.0043938	.002473	.0009439	.0049579	.0029277	.09803	.0032500
%RSD	3.618352	3.974871	1.198893	5.225614	9.868720	.3505163	.6376356
#1	.1166113	-.059363	.0795205	.0892379	.0330464	27.85584	.5084820
#2	.1252138	-.063799	.0789818	.0985508	.0280498	28.01594	.5133786
#3	.1224663	-.063475	.0776843	.0968431	.0279041	28.03391	.5072283

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027222	.0012656	10.30301	.0666501	.0617868	.1279810	157.1514
Stddev	.0001342	.0000621	.02291	.0004009	.0004947	.0012020	.4547
%RSD	4.930522	4.909271	.2223756	.6014722	.8006788	.9391834	.2893405
#1	.0026325	.0011954	10.29411	.0662762	.0612202	.1289174	156.6863
#2	.0026576	.0013136	10.32904	.0666009	.0620073	.1284000	157.5949
#3	.0028765	.0012877	10.28589	.0670734	.0621330	.1266256	157.1729

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.48573	18.03338	.0616511	.0045555	-.787005	.1706052	.2043660
Stddev	.03450	.08704	.0002442	.0007762	.881106	.0066887	.0042138
%RSD	.3290578	.4826730	.3961214	17.03968	111.9568	3.920585	2.061881
#1	10.44900	17.97678	.0619280	.0042911	-1.40117	.1640261	.2066180
#2	10.51746	17.98975	.0614665	.0054294	.22254	.1703912	.1995047
#3	10.49074	18.13361	.0615587	.0039460	-1.18238	.1773984	.2069753

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.602760	1.127083	-.029900	-.000231	.1402103	1.293490	.0126086
Stddev	.079865	.003813	.006469	.000238	.0087205	.004246	.0020289
%RSD	1.735145	.3382994	21.63462	103.0010	6.219582	.3282759	16.09119
#1	4.622118	1.130143	-.028759	-.000309	.1431092	1.293277	.0129990
#2	4.671165	1.122812	-.024078	-.000420	.1304095	1.289353	.0144138
#3	4.514995	1.128294	-.036864	.000036	.1471120	1.297838	.0104128

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5180-08DLX8 Acquired: 12/23/2024 16:57:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCYX6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3604452	-.089599	.0279636
Stddev	.0043570	.000821	.0013883
%RSD	1.208777	.9160866	4.964675
#1	.3644887	-.088679	.0269091
#2	.3610159	-.090257	.0295365
#3	.3558310	-.089862	.0274451

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2110.757	27301.83	2213.829	1806.323	1864.888
Stddev	8.569	81.62	14.059	5.649	6.767
%RSD	.4059773	.2989574	.6350646	.3127417	.3628598
#1	2100.863	27237.83	2211.190	1801.793	1857.099
#2	2115.624	27393.75	2229.020	1812.653	1869.323
#3	2115.785	27273.92	2201.276	1804.524	1868.243

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5180-09DLX8 Acquired: 12/23/2024 17:01:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCYX7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0679677	-.079278	.0903220	.1128582	.0400173	19.09742	.5494827
Stddev	.0027153	.003745	.0008835	.0064350	.0004436	.06832	.0017801
%RSD	3.995002	4.723519	.9781842	5.701805	1.108493	.3577270	.3239530
#1	.0710732	-.077766	.0909215	.1188588	.0400978	19.02103	.5495020
#2	.0667889	-.083542	.0893073	.1060627	.0404151	19.11857	.5476930
#3	.0660409	-.076526	.0907370	.1136530	.0395390	19.15266	.5512530

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032363	.0013669	9.591860	.0319174	.0594046	.0939794	189.3162
Stddev	.0001213	.0001173	.039620	.0010779	.0004906	.0035032	.4859
%RSD	3.747326	8.579208	.4130598	3.377109	.8258274	3.727608	.2566729
#1	.0031023	.0014591	9.605252	.0306773	.0595497	.0899823	189.3012
#2	.0032683	.0014066	9.547280	.0326297	.0588579	.0965162	188.8380
#3	.0033385	.0012349	9.623049	.0324451	.0598063	.0954396	189.8095

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.84537	11.45370	.0454767	.0070553	-1.00402	.0797815	.2176015
Stddev	.02587	.09283	.0004033	.0015651	.65543	.0074571	.0036271
%RSD	.2384896	.8104400	.8867159	22.18296	65.28115	9.346921	1.666831
#1	10.81928	11.34680	.0451599	.0076969	-1.21359	.0854905	.2183836
#2	10.84583	11.51382	.0453396	.0081977	-.26943	.0825095	.2207737
#3	10.87100	11.50050	.0459306	.0052714	-1.52904	.0713445	.2136472

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.859870	1.066586	-.039715	-.000313	.0980994	1.042594	.0130365
Stddev	.211577	.002361	.007038	.000349	.0019207	.002586	.0003372
%RSD	4.353559	.2213300	17.72043	111.5754	1.957956	.2480301	2.586840
#1	4.621614	1.063984	-.034522	-.000582	.0991498	1.043513	.0134174
#2	5.025799	1.068591	-.047725	.000082	.0992660	1.044595	.0127761
#3	4.932198	1.067182	-.036897	-.000439	.0958826	1.039674	.0129159

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5180-09DLX8 Acquired: 12/23/2024 17:01:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCYX7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3062632	-.129388	.0255977
Stddev	.0039898	.000645	.0025480
%RSD	1.302732	.4983927	9.953841
#1	.3017159	-.129322	.0235798
#2	.3078965	-.128779	.0284609
#3	.3091771	-.130064	.0247525

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2108.682	27373.60	2214.943	1806.069	1874.644
Stddev	6.975	77.83	7.013	15.695	6.219
%RSD	.3307760	.2843358	.3166430	.8690362	.3317429
#1	2103.261	27456.64	2222.949	1806.188	1870.188
#2	2106.234	27361.84	2211.996	1821.705	1871.996
#3	2116.551	27302.31	2209.883	1790.315	1881.749

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5180-10DLX10 Acquired: 12/23/2024 17:05:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCYX8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0734615	-.061408	.1146291	.0897823	.0257612	14.40760	.7965419
Stddev	.0028255	.001039	.0005781	.0017497	.0011327	.02295	.0021756
%RSD	3.846261	1.691599	.5043512	1.948852	4.396783	.1592701	.2731301
#1	.0764455	-.060661	.1147779	.0896957	.0270018	14.39253	.7989032
#2	.0731120	-.060969	.1151183	.0915738	.0247823	14.43401	.7961036
#3	.0708270	-.062594	.1139911	.0880775	.0254995	14.39626	.7946188

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021555	.0017530	6.781638	.0331413	.0483335	.1625546	143.5123
Stddev	.0001401	.0000556	.025049	.0002834	.0000567	.0038139	.3684
%RSD	6.502177	3.173383	.3693600	.8552261	.1172099	2.346232	.2566889
#1	.0021125	.0017567	6.807290	.0328843	.0482880	.1667604	143.1179
#2	.0023121	.0016956	6.780384	.0334453	.0483155	.1615828	143.8474
#3	.0020419	.0018067	6.757240	.0330942	.0483970	.1593206	143.5718

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.65582	9.702485	.0403853	.0067543	-1.35788	.0858879	.1991685
Stddev	.02175	.034280	.0007222	.0002500	.34073	.0029893	.0103043
%RSD	.2040832	.3533126	1.788182	3.702029	25.09286	3.480488	5.173640
#1	10.63117	9.740960	.0404605	.0065019	-1.07571	.0824713	.1978969
#2	10.67231	9.675193	.0396285	.0070019	-1.26151	.0871705	.2100496
#3	10.66396	9.691301	.0410669	.0067592	-1.73641	.0880219	.1895591

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.768568	.7905719	-.031693	-.000285	.0471137	.6451860	.0090122
Stddev	.055199	.0040664	.003648	.000780	.0041983	.0054542	.0015725
%RSD	1.993766	.5143661	11.51144	273.5009	8.911003	.8453621	17.44841
#1	2.799820	.7862651	-.034672	.000566	.0453110	.6489522	.0079001
#2	2.801050	.7911055	-.027624	-.000966	.0519123	.6389314	.0083252
#3	2.704834	.7943453	-.032782	-.000456	.0441178	.6476743	.0108113

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5180-10DLX10 Acquired: 12/23/2024 17:05:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCYX8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1816231	-.093450	.0182110
Stddev	.0019798	.000169	.0040877
%RSD	1.090063	.1803705	22.44619
#1	.1834869	-.093257	.0159201
#2	.1818376	-.093568	.0229304
#3	.1795447	-.093525	.0157826

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2087.463	27126.05	2200.538	1793.840	1861.005
Stddev	5.911	93.60	11.609	9.849	4.995
%RSD	.2831568	.3450427	.5275430	.5490480	.2683777
#1	2093.813	27038.56	2188.429	1783.687	1865.364
#2	2086.458	27114.85	2211.572	1794.478	1862.096
#3	2082.120	27224.75	2201.614	1803.354	1855.556

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5181-10DLX4 Acquired: 12/23/2024 17:09:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCYY8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0750166	-.085997	.1097178	.1264466	.0422131	34.17853	.6450045
Stddev	.0018881	.001271	.0018304	.0036097	.0021424	.23090	.0025368
%RSD	2.516910	1.477975	1.668254	2.854693	5.075154	.6755780	.3933038
#1	.0759375	-.084568	.1081803	.1257551	.0439071	34.02920	.6429670
#2	.0762676	-.086423	.1092305	.1232328	.0398048	34.06192	.6442007
#3	.0728448	-.087000	.1117425	.1303520	.0429274	34.44449	.6478459

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0035129	.0015836	15.13341	.0538030	.0889977	.1405305	210.6339
Stddev	.0000324	.0000218	.09456	.0006966	.0010246	.0062274	.7431
%RSD	.9226171	1.375021	.6248567	1.294660	1.151263	4.431329	.3528107
#1	.0034885	.0015859	15.04764	.0530616	.0878528	.1380005	209.9534
#2	.0035497	.0015607	15.11777	.0544439	.0893121	.1476247	210.5216
#3	.0035006	.0016041	15.23482	.0539034	.0898283	.1359664	211.4269

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.09411	20.83357	.0650005	.0099781	-1.45490	.1108992	.3648029
Stddev	.08255	.12914	.0003479	.0016164	.47527	.0020006	.0036436
%RSD	.4829249	.6198639	.5351489	16.19974	32.66654	1.803986	.9987887
#1	17.04269	20.90893	.0647790	.0090349	-1.58261	.1111746	.3643010
#2	17.05030	20.68445	.0648211	.0118446	-1.85327	.1087751	.3686714
#3	17.18933	20.90732	.0654015	.0090549	-.92883	.1127478	.3614362

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.506589	1.714550	-.045575	-.001230	.1323273	2.545351	.0140175
Stddev	.087037	.005214	.006843	.000378	.0076657	.008746	.0004918
%RSD	1.580590	.3041263	15.01497	30.73566	5.792999	.3435986	3.508305
#1	5.449548	1.708533	-.042015	-.000793	.1365534	2.535254	.0145817
#2	5.463449	1.717367	-.053464	-.001446	.1369497	2.550248	.0137907
#3	5.606769	1.717751	-.041245	-.001451	.1234786	2.550552	.0136800

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5181-10DLX4 Acquired: 12/23/2024 17:09:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCYY8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4562823	-.093644	.0468352
Stddev	.0060293	.000313	.0029136
%RSD	1.321397	.3340141	6.220892
#1	.4513905	-.093996	.0501797
#2	.4544382	-.093398	.0448467
#3	.4630183	-.093538	.0454793

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2123.695	27496.56	2216.300	1812.718	1866.032
Stddev	1.506	130.62	6.296	3.073	.853
%RSD	.0709320	.4750524	.2840881	.1695475	.0457338
#1	2122.689	27390.32	2217.803	1809.224	1866.768
#2	2125.427	27642.40	2221.709	1815.003	1866.230
#3	2122.970	27456.95	2209.389	1813.928	1865.096

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5184-20DLX2 Acquired: 12/23/2024 17:13:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCZF8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6954414	-.196860	.4792039	.2317101	.0941987	199.2449	.4042972
Stddev	.0014519	.002515	.0029620	.0016383	.0014296	.3953	.0019824
%RSD	.2087758	1.277443	.6181107	.7070474	1.517611	.1983838	.4903387
#1	.6969288	-.194270	.4817315	.2306718	.0958417	199.3974	.4059568
#2	.6953677	-.199292	.4799356	.2335987	.0935155	199.5412	.4048328
#3	.6940277	-.197017	.4759446	.2308597	.0932389	198.7961	.4021020

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0091432	.0176197	37.39181	.8627625	.2867155	2.105859	421.4394
Stddev	.0001749	.0001354	.09150	.0022348	.0009482	.021018	.7425
%RSD	1.913355	.7684253	.2447186	.2590321	.3306988	.9980680	.1761846
#1	.0092684	.0175624	37.37052	.8627652	.2857758	2.119749	421.9232
#2	.0092180	.0175223	37.49208	.8649960	.2876719	2.116150	421.8105
#3	.0089433	.0177743	37.31282	.8605263	.2866988	2.081679	420.5845

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.712818	151.7260	.5239538	.0090086	-.902012	1.145599	1.114674
Stddev	.027132	.3918	.0007208	.0015423	.624398	.012690	.002978
%RSD	.3517747	.2582298	.1375769	17.12040	69.22276	1.107752	.2671212
#1	7.724165	151.2740	.5232796	.0072817	-.635402	1.130996	1.114537
#2	7.732434	151.9683	.5247136	.0094953	-1.61546	1.151854	1.117717
#3	7.681855	151.9357	.5238681	.0102489	-.45518	1.153949	1.111767

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.450128	2.042734	-.085894	-.000519	.3771516	8.257168	.0377393
Stddev	.094076	.002784	.006329	.000851	.0034110	.070375	.0002698
%RSD	3.839625	.1362984	7.368474	164.0211	.9044142	.8522872	.7149501
#1	2.349910	2.045219	-.078619	-.000805	.3755489	8.191958	.0379558
#2	2.463939	2.039725	-.090136	.000438	.3748371	8.331765	.0378250
#3	2.536534	2.043260	-.088926	-.001191	.3810688	8.247780	.0374370

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5184-20DLX2 Acquired: 12/23/2024 17:13:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCZF8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	2.991602	-.315423	.0974277
Stddev	.009527	.000629	.0016568
%RSD	.3184476	.1994316	1.700510
#1	2.998492	-.315883	.0955162
#2	2.995584	-.315680	.0984512
#3	2.980730	-.314706	.0983156

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2165.605	28040.49	2330.818	1856.019	1793.109
Stddev	4.156	28.04	10.794	3.702	3.471
%RSD	.1918988	.0999895	.4630799	.1994357	.1935778
#1	2164.937	28027.66	2337.948	1851.860	1792.129
#2	2170.054	28021.17	2318.400	1857.246	1796.964
#3	2161.824	28072.65	2336.107	1858.952	1790.233

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5184-21DLX2 Acquired: 12/23/2024 17:17:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCZF8D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6943300	-.200631	.4792459	.2369211	.0936122	199.3883	.4051442
Stddev	.0060069	.003282	.0024059	.0041462	.0028427	.2608	.0003919
%RSD	.8651425	1.635862	.5020186	1.750049	3.036655	.1307870	.0967216
#1	.6940472	-.198092	.4789807	.2417085	.0968454	199.6775	.4054316
#2	.6884695	-.204337	.4769836	.2344836	.0915051	199.1712	.4046979
#3	.7004734	-.199463	.4817735	.2345713	.0924862	199.3161	.4053032

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0092522	.0178849	38.03537	.8570622	.2854444	2.108289	422.1619
Stddev	.0001464	.0000874	.07076	.0020759	.0003189	.001358	.5294
%RSD	1.582606	.4887710	.1860347	.2422050	.1117031	.0644138	.1253987
#1	.0093558	.0179664	38.05605	.8589161	.2850938	2.109828	422.5986
#2	.0093162	.0177926	38.09349	.8548194	.2855223	2.107257	422.3140
#3	.0090847	.0178959	37.95658	.8574512	.2857170	2.107783	421.5731

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.734838	152.1305	.5251936	.0092437	-.853355	1.153548	1.114304
Stddev	.005648	.3621	.0010215	.0011086	.631948	.016141	.008422
%RSD	.0730213	.2380218	.1944915	11.99304	74.05460	1.399239	.7558410
#1	7.737760	152.5280	.5240338	.0094705	-1.36354	1.161611	1.119206
#2	7.738425	152.0440	.5255876	.0080392	-.14644	1.134964	1.104579
#3	7.728327	151.8195	.5259594	.0102214	-1.05009	1.164069	1.119127

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.680641	2.045144	-.092862	-.000961	.3803747	8.228447	.0385543
Stddev	.225435	.010894	.007131	.000996	.0054394	.121312	.0010341
%RSD	8.409725	.5326938	7.679590	103.6375	1.430021	1.474299	2.682198
#1	2.881683	2.039876	-.100029	-.000933	.3780128	8.361457	.0389183
#2	2.436916	2.037884	-.092791	.000021	.3865959	8.199992	.0373874
#3	2.723325	2.057671	-.085766	-.001970	.3765155	8.123892	.0393572

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5184-21DLX2 Acquired: 12/23/2024 17:17:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCZF8D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	2.993035	-.316374	.1007593
Stddev	.005889	.000190	.0020427
%RSD	.1967674	.0601098	2.027309
#1	2.999129	-.316166	.0986642
#2	2.987375	-.316539	.1008685
#3	2.992601	-.316415	.1027452

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2161.381	27955.20	2324.495	1858.987	1789.166
Stddev	8.422	29.63	25.122	3.190	5.593
%RSD	.3896638	.1059859	1.080755	.1716173	.3126132
#1	2156.945	27961.49	2295.893	1859.629	1787.778
#2	2171.093	27981.18	2334.603	1855.524	1795.323
#3	2156.103	27922.93	2342.988	1861.807	1784.398

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5184-20LDLX10 Acquired: 12/23/2024 17:21:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCZF8L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1403471	-.042219	.0962286	.0534637	.0192447	41.26289	.0811405
Stddev	.0020237	.002747	.0008372	.0020790	.0028389	.18579	.0015263
%RSD	1.441937	6.506650	.8700493	3.888546	14.75131	.4502670	1.881058
#1	.1424273	-.039368	.0971676	.0558097	.0211424	41.14210	.0828609
#2	.1402290	-.042441	.0959583	.0527316	.0206107	41.16973	.0799490
#3	.1383850	-.044849	.0955599	.0518498	.0159811	41.47683	.0806117

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019141	.0033163	7.867051	.1787464	.0579384	.4480010	89.07893
Stddev	.0000399	.0000432	.036812	.0006607	.0003059	.0089732	.38434
%RSD	2.084889	1.303106	.4679210	.3696559	.5280546	2.002945	.4314580
#1	.0019181	.0033651	7.861573	.1792131	.0582508	.4583617	89.33451
#2	.0018724	.0033007	7.833285	.1779903	.0579251	.4427212	88.63693
#3	.0019519	.0032830	7.906294	.1790358	.0576394	.4429201	89.26534

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.630126	31.56182	.1055011	.0023790	-.477682	.2405072	.2322672
Stddev	.009829	.04676	.0008935	.0003545	.619741	.0039473	.0125923
%RSD	.6029671	.1481662	.8468699	14.90042	129.7392	1.641243	5.421458
#1	1.631632	31.55593	.1065323	.0020165	-.820656	.2397536	.2381533
#2	1.619630	31.61125	.1050123	.0023956	-.850121	.2369911	.2178098
#3	1.639115	31.51828	.1049586	.0027249	.237731	.2447770	.2408385

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1880743	.3960599	-.024155	-.000180	.0682980	1.710983	.0067111
Stddev	.0700760	.0019443	.002398	.000206	.0045913	.017387	.0036856
%RSD	37.25973	.4909015	9.928303	114.7251	6.722476	1.016224	54.91845
#1	.1538340	.3938419	-.026881	-.000086	.0711165	1.730830	.0106742
#2	.1417017	.3968677	-.023215	-.000037	.0630000	1.703680	.0033864
#3	.2686874	.3974700	-.022369	-.000416	.0707775	1.698438	.0060725

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5184-20LDLX10 Acquired: 12/23/2024 17:21:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCZF8L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6214004	-.066833	.0222586
Stddev	.0038022	.000646	.0011012
%RSD	.6118816	.9670119	4.947148
#1	.6176953	-.067476	.0230709
#2	.6252928	-.066184	.0210053
#3	.6212133	-.066839	.0226996

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2079.273	27276.30	2214.291	1807.198	1845.263
Stddev	1.078	72.24	24.132	4.696	1.665
%RSD	.0518344	.2648450	1.089828	.2598236	.0902235
#1	2080.168	27231.71	2186.808	1802.425	1846.042
#2	2079.574	27237.54	2224.048	1807.356	1846.396
#3	2078.077	27359.64	2232.017	1811.812	1843.351

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5184-22DLX2 Acquired: 12/23/2024 17:25:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCZF8S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7826231	-.105078	.5134099	.4101163	.2567519	202.0671	4.172040
Stddev	.0088778	.002601	.0049933	.0078938	.0017993	.4195	.008671
%RSD	1.134362	2.474977	.9725776	1.924770	.7007766	.2076215	.2078413
#1	.7725245	-.102228	.5079007	.4016441	.2579647	201.6094	4.162454
#2	.7861466	-.107322	.5176376	.4172643	.2576065	202.4335	4.179337
#3	.7891982	-.105683	.5146912	.4114404	.2546847	202.1583	4.174331

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1037165	.1124486	37.82483	1.229664	1.204470	2.556892	423.4686
Stddev	.0006697	.0004839	.19766	.001516	.002626	.009820	1.1756
%RSD	.6456589	.4303244	.5225789	.1233008	.2179959	.3840630	.2776021
#1	.1031837	.1119170	37.73537	1.231219	1.202122	2.560223	422.2802
#2	.1044682	.1125652	38.05141	1.228190	1.203984	2.564614	424.6309
#3	.1034975	.1128635	37.68771	1.229582	1.207305	2.545840	423.4947

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.641239	151.8190	1.474048	.0783212	-.545199	2.112856	1.979916
Stddev	.034575	.6333	.001896	.0020547	.314251	.017952	.026904
%RSD	.4001127	.4171419	.1286045	2.623437	57.63970	.8496531	1.358840
#1	8.613975	151.1067	1.471942	.0759675	-.217569	2.108737	1.997926
#2	8.680128	152.0318	1.474583	.0792397	-.573930	2.132509	1.948990
#3	8.629614	152.3185	1.475618	.0797565	-.844099	2.097322	1.992833

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.535564	2.003198	-.103746	-.001009	.3644163	8.455370	.0385475
Stddev	.051639	.002794	.003634	.000408	.0057699	.058200	.0011476
%RSD	2.036596	.1394633	3.503146	40.43049	1.583333	.6883163	2.977171
#1	2.514173	1.999985	-.104837	-.001481	.3634203	8.458971	.0397019
#2	2.498058	2.005048	-.106710	-.000764	.3592093	8.511685	.0374067
#3	2.594462	2.004562	-.099691	-.000784	.3706194	8.395453	.0385340

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5184-22DLX2 Acquired: 12/23/2024 17:25:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCZF8S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	2.990251	-.318053	.0984763
Stddev	.003277	.001439	.0056976
%RSD	.1096003	.4524727	5.785774
#1	2.988931	-.316516	.0970863
#2	2.993982	-.319368	.0936024
#3	2.987839	-.318276	.1047404

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2170.296	28449.08	2328.519	1879.598	1805.649
Stddev	2.146	96.73	13.696	2.266	.683
%RSD	.0988579	.3399990	.5881895	.1205788	.0378529
#1	2172.710	28337.46	2325.386	1877.343	1806.429
#2	2169.574	28508.33	2316.660	1881.876	1805.153
#3	2168.605	28501.45	2343.510	1879.573	1805.365

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5154-09DLX5 Acquired: 12/23/2024 17:29:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28P7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.008548	.0260760	.0131877	-.033446	.0001750	1.969984	.0377696
Stddev	.002694	.0055211	.0022567	.002070	.0022788	.028878	.0013360
%RSD	31.51931	21.17306	17.11199	6.188094	1302.558	1.465879	3.537166
#1	-.009346	.0220479	.0120332	-.033834	.0021854	1.939961	.0384687
#2	-.010752	.0323694	.0157880	-.035295	.0006399	1.972432	.0386110
#3	-.005545	.0238107	.0117418	-.031210	-.002300	1.997560	.0362292

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003049	.0000529	344.7415	.0084752	.0387342	.0081387	5.613802
Stddev	.0001055	.0001024	.1701	.0007561	.0008793	.0053020	.029738
%RSD	34.58609	193.6541	.0493528	8.921740	2.270001	65.14528	.5297250
#1	.0001846	-.000058	344.6201	.0088407	.0378772	.0133282	5.641818
#2	.0003813	.000074	344.6686	.0089792	.0386914	.0083569	5.616989
#3	.0003488	.000143	344.9360	.0076058	.0396341	.0027310	5.582599

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2012718	196.5844	.0131976	-.000130	-2.03743	.0149904	.0393325
Stddev	.0009585	.4590	.0005080	.000865	.54650	.0040533	.0071826
%RSD	.4762430	.2334973	3.849377	665.2576	26.82284	27.03943	18.26130
#1	.2008880	196.0579	.0126518	-.001126	-2.66393	.0119620	.0467935
#2	.2023628	196.7951	.0132845	.000297	-1.65877	.0134142	.0324651
#3	.2005647	196.9003	.0136566	.000439	-1.78959	.0195951	.0387389

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.564093	.1327785	.0038955	.0048353	2.027742	.7085349	.0073012
Stddev	.086098	.0034277	.0023325	.0003688	.017947	.0059231	.0015420
%RSD	15.26299	2.581527	59.87666	7.627120	.8850676	.8359678	21.11906
#1	-.516118	.1299349	.0041597	.0051574	2.007521	.7056437	.0060351
#2	-.663490	.1318161	.0014421	.0049154	2.033929	.7046126	.0090184
#3	-.512671	.1365846	.0060846	.0044330	2.041777	.7153484	.0068503

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5154-09DLX5 Acquired: 12/23/2024 17:29:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28P7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0673118	.2690500	.0046572
Stddev	.0046836	.0004047	.0053353
%RSD	6.958075	.1504164	114.5600
#1	.0633571	.2694928	.0016891
#2	.0660944	.2686993	.0108166
#3	.0724839	.2689580	.0014660

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1979.654	26218.78	2150.411	1710.980	1699.295
Stddev	13.363	137.76	5.454	13.203	14.613
%RSD	.6750140	.5254066	.2536352	.7716818	.8599620
#1	1988.115	26181.19	2156.649	1703.245	1707.265
#2	1986.599	26103.73	2146.540	1703.469	1708.190
#3	1964.249	26371.43	2148.044	1726.225	1682.429

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCV003 Acquired: 12/23/2024 17:33:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV003 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.031209	4.876313	24.55670	4.919828	4.836937	402.8975	10.19142
Stddev	.019348	.011818	.03609	.003849	.009578	2.1291	.06572
%RSD	.3845601	.2423632	.1469495	.0782373	.1980152	.5284424	.6448955
#1	5.020219	4.862667	24.51742	4.916864	4.847975	400.6052	10.12058
#2	5.019858	4.883041	24.56431	4.918441	4.830829	404.8130	10.25041
#3	5.053549	4.883230	24.58838	4.924178	4.832006	403.2744	10.20327

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5106427	2.465840	412.6283	15.32674	2.444707	15.21692	418.1073
Stddev	.0003608	.001323	1.2762	.01737	.000731	.06519	2.4364
%RSD	.0706593	.0536581	.3092777	.1133330	.0299176	.4283954	.5827225
#1	.5109487	2.464818	411.3390	15.31628	2.444423	15.17352	415.6169
#2	.5102448	2.465368	413.8909	15.31715	2.445538	15.29188	420.4859
#3	.5107346	2.467335	412.6550	15.34679	2.444161	15.18536	418.2191

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.19965	412.9929	2.493083	1.298929	410.9113	2.579388	15.38914
Stddev	.08150	3.7268	.005915	.004336	3.4489	.007990	.00904
%RSD	.5362181	.9023784	.2372382	.3338218	.8393329	.3097805	.0587587
#1	15.11475	408.7403	2.486414	1.294691	406.9649	2.573967	15.37882
#2	15.27727	415.6896	2.497693	1.303357	412.4213	2.588565	15.39293
#3	15.20692	414.5488	2.495142	1.298740	413.3477	2.575633	15.39566

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	153.1191	4.958277	4.828743	4.886634	4.884942	4.779598	4.992196
Stddev	.8883	.006178	.006100	.008321	.005708	.006835	.003273
%RSD	.5801304	.1246053	.1263314	.1702756	.1168419	.1430059	.0655605
#1	152.3570	4.958688	4.823054	4.891025	4.880448	4.787332	4.988421
#2	154.0947	4.951904	4.827990	4.877037	4.891364	4.774370	4.994233
#3	152.9057	4.964240	4.835184	4.891839	4.883015	4.777092	4.993935

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCV003 Acquired: 12/23/2024 17:33:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV003 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	5.031683	4.767840	5.139188
Stddev	.003203	.018420	.027029
%RSD	.0636563	.3863465	.5259363
#1	5.035206	4.748403	5.109508
#2	5.030896	4.785039	5.162388
#3	5.028946	4.770079	5.145669

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1775.359	24213.95	2078.386	1520.141	1551.678
Stddev	3.076	77.40	.927	.280	2.984
%RSD	.1732782	.3196437	.0446066	.0184348	.1923342
#1	1774.776	24299.75	2079.452	1520.446	1553.243
#2	1772.616	24192.71	2077.772	1520.081	1548.237
#3	1778.685	24149.40	2077.933	1519.896	1553.555

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCB003 Acquired: 12/23/2024 17:37:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB003 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002657	-.000934	.0036794	-.000031	.0008841	.0282710	-.001586
Stddev	.003573	.001695	.0005344	.001457	.0031621	.0199779	.000793
%RSD	134.4859	181.4575	14.52348	4696.976	357.6730	70.66578	50.00289
#1	.000106	-.000190	.0040590	-.001175	.0011279	.0269005	-.000673
#2	-.001385	-.002874	.0039109	.001610	-.002393	.0090136	-.001986
#3	-.006691	.000262	.0030683	-.000529	.003917	.0488989	-.002100

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000024	-.000097	-.017206	-.001129	-.000075	.0010175	.0313354
Stddev	.000161	.000075	.014359	.000161	.000348	.0095611	.0132398
%RSD	681.4487	77.86731	83.45583	14.29846	467.1849	939.6308	42.25184
#1	.000162	-.000154	-.006980	-.001303	.000085	-.008561	.0212438
#2	-.000128	-.000011	-.011016	-.001100	.000165	.010561	.0463266
#3	-.000105	-.000126	-.033622	-.000985	-.000474	.001053	.0264357

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009898	.0833795	.0007016	-.000063	-.933045	.0042170	-.003391
Stddev	.0017550	.2035665	.0004961	.001890	.277235	.0091686	.015630
%RSD	177.3015	244.1447	70.70384	3016.991	29.71294	217.4192	460.8938
#1	.0030006	.3175460	.0001436	-.001326	-1.22586	.0101922	-.020859
#2	-.000233	-.015988	.0008687	.002110	-.67459	-.006339	.001413
#3	.000202	-.051419	.0010926	-.000972	-.89868	.008798	.009273

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.596801	-.000858	.0088214	.0002806	-.004628	-.079119	-.000431
Stddev	.172052	.000408	.0009502	.0005114	.004581	.000533	.000151
%RSD	28.82902	47.59734	10.77149	182.2624	98.98175	.6730664	34.97596
#1	-.795032	-.001329	.0098633	.0008274	-.008839	-.079614	-.000476
#2	-.486275	-.000619	.0080025	-.000186	-.005293	-.079188	-.000555
#3	-.509096	-.000625	.0085984	.000200	.000249	-.078556	-.000263

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCB003 Acquired: 12/23/2024 17:37:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB003 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0010029	.0000461	.0098546
Stddev	.0038583	.0001172	.0051057
%RSD	384.6973	254.0990	51.81000
#1	.0051450	.0000530	.0039789
#2	.0003527	.0001597	.0123739
#3	-.002489	-.000074	.0132110

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2041.148	26763.73	2144.952	1765.502	1853.001
Stddev	7.810	82.66	8.996	8.447	8.758
%RSD	.3826111	.3088554	.4193992	.4784387	.4726512
#1	2044.618	26697.27	2155.166	1760.693	1860.544
#2	2032.205	26737.62	2138.205	1760.557	1843.395
#3	2046.621	26856.29	2141.487	1775.255	1855.062

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4978-05DLX5 Acquired: 12/23/2024 17:41:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ51 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003821	.0309689	.0861474	-.027126	.0008646	3.371960	.0239011
Stddev	.004219	.0062980	.0015451	.000922	.0008403	.041784	.0011488
%RSD	110.4113	20.33648	1.793513	3.398446	97.18788	1.239158	4.806402
#1	-.007923	.0265122	.0867270	-.026972	.0015525	3.384626	.0250177
#2	-.004047	.0381740	.0873189	-.028115	-.000072	3.325308	.0227226
#3	.000506	.0282204	.0843963	-.026291	.001113	3.405945	.0239629

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004722	.0029437	418.9507	.0106571	.0432386	.0096347	18.82457
Stddev	.0000733	.0000442	3.7380	.0006255	.0010247	.0067898	.14339
%RSD	15.53369	1.501655	.8922379	5.869198	2.369869	70.47304	.7617434
#1	.0004107	.0029791	419.3433	.0100942	.0437150	.0018769	18.73330
#2	.0005534	.0028941	415.0318	.0113305	.0439385	.0144957	18.75055
#3	.0004524	.0029578	422.4768	.0105467	.0420625	.0125314	18.98984

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.064912	237.4983	.0134111	.0020067	-1.57852	.0178885	.6033808
Stddev	.021015	2.1437	.0004384	.0010054	.04235	.0087793	.0047402
%RSD	1.017701	.9026064	3.268886	50.10185	2.682617	49.07793	.7855981
#1	2.065828	237.8786	.0138818	.0027603	-1.52963	.0280172	.6038733
#2	2.043454	235.1900	.0130145	.0023946	-1.60393	.0124587	.5984136
#3	2.085453	239.4264	.0133368	.0008651	-1.60198	.0131896	.6078555

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9096959	.2709356	.0238398	.0030010	4.140861	1.734917	.0070800
Stddev	.2049333	.0024197	.0004014	.0008144	.009135	.012821	.0022090
%RSD	22.52767	.8930856	1.683905	27.13889	.2206008	.7390107	31.20017
#1	.8333067	.2688151	.0242176	.0020700	4.130314	1.743880	.0045537
#2	1.141852	.2735714	.0238834	.0035818	4.146024	1.720231	.0080378
#3	.753929	.2704202	.0234183	.0033512	4.146246	1.740641	.0086484

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4978-05DLX5 Acquired: 12/23/2024 17:41:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ51 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0303081	.1147723	.0176824
Stddev	.0035732	.0016355	.0032300
%RSD	11.78939	1.425032	18.26662
#1	.0273642	.1149297	.0171015
#2	.0292767	.1130637	.0147822
#3	.0342836	.1163234	.0211634

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1924.206	25321.03	2128.440	1647.106	1629.145
Stddev	7.349	42.46	16.658	4.400	5.219
%RSD	.3819182	.1676693	.7826360	.2671127	.3203497
#1	1920.534	25355.09	2113.443	1642.482	1627.362
#2	1919.416	25273.47	2146.369	1651.240	1625.051
#3	1932.667	25334.54	2125.508	1647.596	1635.022

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4978-06DLX5 Acquired: 12/23/2024 17:45:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ52 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002504	.0260888	.0752226	-.024735	.0045171	2.562454	.0277576
Stddev	.005448	.0056078	.0034941	.001979	.0026487	.107310	.0014122
%RSD	217.5739	21.49497	4.645070	8.000291	58.63759	4.187787	5.087718
#1	.002747	.0197602	.0732401	-.027019	.0034345	2.512519	.0262179
#2	-.002129	.0280665	.0792571	-.023528	.0075357	2.685632	.0280624
#3	-.008130	.0304398	.0731707	-.023658	.0025812	2.489212	.0289925

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004375	.0018072	407.5088	.0079349	.0407561	.0125088	17.82947
Stddev	.0001438	.0001491	12.7206	.0008382	.0012695	.0064963	.54785
%RSD	32.85354	8.250723	3.121547	10.56295	3.114884	51.93405	3.072741
#1	.0004792	.0018849	402.6409	.0087189	.0410226	.0069120	17.58107
#2	.0005558	.0019015	421.9444	.0070515	.0418713	.0196327	18.45752
#3	.0002776	.0016353	397.9411	.0080343	.0393746	.0109818	17.44982

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.408923	229.7196	.0108464	-.000225	-1.48422	.0073251	.3699886
Stddev	.088443	7.1822	.0007922	.001452	.45494	.0026492	.0028772
%RSD	3.671464	3.126497	7.303607	644.8352	30.65192	36.16571	.7776310
#1	2.369333	226.0332	.0116987	-.001662	-1.45413	.0075341	.3685584
#2	2.510245	237.9964	.0107078	-.000256	-1.04507	.0098636	.3681068
#3	2.347191	225.1291	.0101327	.001242	-1.95346	.0045776	.3733006

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4521901	.2230720	.0194171	.0016706	3.661340	1.320003	.0076941
Stddev	.1000913	.0072073	.0012732	.0004792	.100662	.036213	.0021187
%RSD	22.13479	3.230912	6.557113	28.68509	2.749320	2.743411	27.53673
#1	.3368615	.2286733	.0200773	.0019164	3.726881	1.310142	.0089218
#2	.5033158	.2256018	.0179494	.0011184	3.711702	1.360126	.0089128
#3	.5163931	.2149409	.0202247	.0019772	3.545436	1.289742	.0052476

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4978-06DLX5 Acquired: 12/23/2024 17:45:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ52 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0135876	.1116848	.0106762
Stddev	.0054173	.0038759	.0024214
%RSD	39.86962	3.470425	22.68021
#1	.0077684	.1099450	.0096893
#2	.0184848	.1161258	.0134352
#3	.0145096	.1089836	.0089042

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2022.349	26299.19	2124.211	1709.006	1716.986
Stddev	51.079	81.42	57.270	4.091	46.954
%RSD	2.525733	.3095989	2.696057	.2393984	2.734654
#1	1990.493	26229.07	2137.219	1710.524	1686.270
#2	1995.289	26280.00	2061.556	1704.372	1693.653
#3	2081.265	26388.49	2173.859	1712.121	1771.036

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4978-07DLX5 Acquired: 12/23/2024 17:49:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ53 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005354	.0278520	.0771317	-.032949	.0017851	2.345101	.0140194
Stddev	.002269	.0030296	.0005159	.004254	.0021761	.041293	.0021234
%RSD	42.38406	10.87742	.6688316	12.91110	121.8989	1.760814	15.14578
#1	-.006009	.0249922	.0765546	-.029044	.0042973	2.360212	.0145593
#2	-.002829	.0275370	.0772924	-.032320	.0005725	2.298381	.0116782
#3	-.007224	.0310268	.0775480	-.037482	.0004856	2.376710	.0158207

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003714	.0009490	400.8446	.0073948	.0415993	.0110587	17.29286
Stddev	.0000746	.0001083	7.2844	.0003023	.0008809	.0037218	.28510
%RSD	20.09122	11.41450	1.817253	4.087734	2.117584	33.65493	1.648670
#1	.0003299	.0008516	404.8368	.0077415	.0416155	.0094582	17.40139
#2	.0003267	.0009297	392.4369	.0072567	.0407104	.0084049	16.96943
#3	.0004575	.0010657	405.2600	.0071862	.0424719	.0153131	17.50776

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.965943	227.9986	.0103937	.0014398	-1.08785	.0078807	.1940119
Stddev	.054911	4.0461	.0007578	.0017181	.66629	.0011159	.0171994
%RSD	1.851387	1.774619	7.291362	119.3282	61.24788	14.15937	8.865106
#1	2.993249	230.3145	.0107266	.0026405	-.33779	.0065938	.2027096
#2	2.902732	223.3266	.0109280	-.000528	-1.31457	.0084700	.2051253
#3	3.001849	230.3546	.0095263	.002207	-1.61119	.0085784	.1742008

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5639713	.2217980	.0145611	.0021088	3.460601	1.328545	.0073534
Stddev	.1594761	.0017509	.0019083	.0004043	.004444	.026634	.0003324
%RSD	28.27735	.7893895	13.10514	19.17138	.1284249	2.004739	4.520360
#1	.7202709	.2235068	.0138074	.0016874	3.461640	1.352742	.0071324
#2	.4014980	.2200079	.0131448	.0021455	3.455730	1.300008	.0071921
#3	.5701449	.2218792	.0167311	.0024935	3.464434	1.332886	.0077357

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4978-07DLX5 Acquired: 12/23/2024 17:49:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ53 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0082863	.1020759	.0073491
Stddev	.0015418	.0015925	.0011768
%RSD	18.60672	1.560071	16.01267
#1	.0065293	.1028159	.0072049
#2	.0094135	.1002481	.0062510
#3	.0089162	.1031638	.0085913

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1956.787	25915.93	2157.506	1685.425	1656.706
Stddev	2.180	54.13	43.054	5.381	2.199
%RSD	.1113876	.2088812	1.995550	.3192462	.1327625
#1	1954.327	25861.37	2122.994	1685.619	1654.413
#2	1958.478	25916.80	2205.752	1690.706	1658.798
#3	1957.557	25969.62	2143.773	1679.949	1656.908

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4979-14DLX2 Acquired: 12/23/2024 17:53:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJA2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0374797	.0082313	.2322187	.0157902	.0127943	25.46199	.3943019
Stddev	.0011633	.0029273	.0028288	.0009837	.0009640	.15635	.0010786
%RSD	3.103834	35.56268	1.218142	6.229868	7.534535	.6140537	.2735554
#1	.0361837	.0111501	.2307462	.0154860	.0121700	25.28337	.3942361
#2	.0378218	.0082480	.2354800	.0149945	.0139045	25.52863	.3954119
#3	.0384336	.0052957	.2304300	.0168901	.0123083	25.57399	.3932577

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0025531	.0025353	527.5334	.0473093	.0737200	.2207117	77.94114
Stddev	.0000433	.0000712	1.6253	.0010182	.0003768	.0040502	.29512
%RSD	1.695915	2.808253	.3080977	2.152126	.5110752	1.835073	.3786411
#1	.0025767	.0024538	525.6711	.0463133	.0739762	.2166506	77.60192
#2	.0025032	.0025665	528.2629	.0483483	.0738965	.2247509	78.13890
#3	.0025795	.0025856	528.6662	.0472664	.0732874	.2207336	78.08259

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.51816	19.06584	.0713243	.0044529	-1.03695	.0628346	.3042279
Stddev	.03091	.15878	.0011933	.0017036	.73002	.0053993	.0122325
%RSD	.2683810	.8328102	1.673132	38.25929	70.40124	8.592959	4.020842
#1	11.48472	18.88268	.0711161	.0064096	-1.87991	.0639490	.3102653
#2	11.52405	19.16468	.0702488	.0036508	-.61407	.0675897	.3122679
#3	11.54570	19.15015	.0726081	.0032983	-.61687	.0569650	.2901504

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.877915	4.427597	-.002759	.0090856	.8590088	4.837912	.0200951
Stddev	.171639	.006209	.002782	.0005703	.0084221	.039310	.0021203
%RSD	9.139877	.1402329	100.8379	6.276571	.9804435	.8125385	10.55149
#1	2.021660	4.422621	-.003567	.0093964	.8521025	4.792850	.0178323
#2	1.924207	4.425616	-.005048	.0094329	.8683914	4.865166	.0220362
#3	1.687877	4.434555	.000338	.0084274	.8565325	4.855721	.0204167

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4979-14DLX2 Acquired: 12/23/2024 17:53:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJA2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3187857	.3129050	.0318472
Stddev	.0037745	.0009627	.0020612
%RSD	1.184025	.3076598	6.472275
#1	.3146715	.3119197	.0317594
#2	.3195970	.3138433	.0339510
#3	.3220885	.3129520	.0298313

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2206.078	28981.97	2420.074	1889.548	1705.760
Stddev	1.156	87.32	22.766	7.405	.929
%RSD	.0524121	.3012932	.9407145	.3918860	.0544843
#1	2204.766	29077.22	2446.251	1897.476	1705.577
#2	2206.518	28963.00	2404.895	1888.356	1704.935
#3	2206.949	28905.70	2409.076	1882.811	1706.766

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4979-16DLX5 Acquired: 12/23/2024 17:57:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJA4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009327	.0177450	.0528372	-.016856	.0026297	5.702700	.1320265
Stddev	.0006755	.0017242	.0037121	.002135	.0022007	.053151	.0020531
%RSD	72.42323	9.716261	7.025494	12.66747	83.68655	.9320351	1.555046
#1	.0002650	.0163215	.0546134	-.018455	.0018752	5.720586	.1318812
#2	.0016158	.0196621	.0553275	-.014431	.0009055	5.744601	.1341484
#3	.0009174	.0172512	.0485708	-.017681	.0051084	5.642913	.1300500

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006667	.0005538	391.1175	.0103351	.0471602	.0641508	30.42196
Stddev	.0000444	.0000103	3.8141	.0005763	.0006831	.0029734	.30555
%RSD	6.657854	1.854769	.9751825	5.576417	1.448441	4.635022	1.004363
#1	.0006511	.0005547	390.1156	.0097760	.0479443	.0664220	30.15482
#2	.0007168	.0005636	395.3326	.0109272	.0468426	.0607853	30.75512
#3	.0006323	.0005431	387.9043	.0103020	.0466938	.0652450	30.35595

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.093490	6.989529	.0188217	.0033202	-1.14070	.0116487	.0746953
Stddev	.053928	.194578	.0005313	.0010813	.74686	.0039331	.0132093
%RSD	1.058755	2.783843	2.822674	32.56754	65.47364	33.76480	17.68426
#1	5.082765	7.017865	.0193081	.0039629	-.31458	.0071390	.0797692
#2	5.151975	7.168385	.0189022	.0020718	-1.76810	.0143691	.0846155
#3	5.045732	6.782337	.0182547	.0039259	-1.33943	.0134379	.0597014

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.025897	1.263697	-.006095	.0044129	.2535802	2.083267	.0073320
Stddev	.132980	.003655	.002724	.0002320	.0045061	.019112	.0023356
%RSD	513.4862	.2892300	44.69568	5.258004	1.776987	.9174286	31.85536
#1	-.146146	1.264601	-.009173	.0041614	.2566861	2.091219	.0100161
#2	.116924	1.259675	-.003996	.0044585	.2484121	2.097119	.0062179
#3	-.048470	1.266815	-.005116	.0046187	.2556426	2.061462	.0057621

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4979-16DLX5 Acquired: 12/23/2024 17:57:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJA4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0644568	.1957536	.0028274
Stddev	.0014886	.0017271	.0061235
%RSD	2.309471	.8822750	216.5751
#1	.0642472	.1958648	.0030606
#2	.0660391	.1974224	.0088311
#3	.0630841	.1939736	-.003409

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2060.239	26882.11	2214.338	1761.711	1757.176
Stddev	9.033	88.49	16.213	10.535	4.860
%RSD	.4384374	.3291716	.7321845	.5980063	.2765797
#1	2053.796	26958.34	2217.106	1768.250	1752.804
#2	2070.564	26902.92	2196.918	1767.326	1762.409
#3	2056.357	26785.07	2228.988	1749.558	1756.314

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4980-03DLX5 Acquired: 12/23/2024 18:01:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ72 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057370	.0273425	.1641073	-.021582	.0024640	4.692069	.0442297
Stddev	.0010654	.0018230	.0015959	.006052	.0008477	.064492	.0017201
%RSD	18.57021	6.667179	.9724882	28.04120	34.40270	1.374492	3.889081
#1	.0046292	.0258511	.1650609	-.028487	.0017561	4.757707	.0441225
#2	.0058275	.0293747	.1622648	-.017203	.0034034	4.689713	.0460008
#3	.0067542	.0268017	.1649961	-.019055	.0022325	4.628788	.0425656

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007219	.0026029	387.1262	.0134872	.0426225	.0339332	23.04519
Stddev	.0001195	.0002101	4.8409	.0005856	.0006636	.0051505	.30104
%RSD	16.55369	8.071074	1.250472	4.341902	1.556939	15.17831	1.306307
#1	.0006412	.0028223	390.7082	.0139598	.0433455	.0335852	23.15006
#2	.0008592	.0024036	389.0516	.0128320	.0424811	.0289656	23.27976
#3	.0006653	.0025828	381.6189	.0136697	.0420411	.0392489	22.70573

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.782077	217.7175	.0218890	.0009018	-1.74912	.0150784	.5913069
Stddev	.035281	2.0756	.0005475	.0012701	.70239	.0073192	.0120487
%RSD	1.268154	.9533657	2.501132	140.8356	40.15678	48.54094	2.037639
#1	2.808799	218.7227	.0218923	.0020888	-2.30944	.0234124	.5776510
#2	2.795348	219.0992	.0224349	-.000438	-1.97678	.0096952	.5958311
#3	2.742085	215.3306	.0213400	.001054	-.96114	.0121276	.6004388

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8623212	.6205152	.0115607	.0028469	4.888891	1.852058	.0164072
Stddev	.0668927	.0025199	.0011744	.0005251	.007890	.019058	.0008413
%RSD	7.757283	.4060994	10.15820	18.44387	.1613857	1.029019	5.127464
#1	.7883014	.6176063	.0123812	.0023179	4.887477	1.857377	.0164928
#2	.9184475	.6220299	.0120856	.0028550	4.881803	1.867892	.0155264
#3	.8802148	.6219095	.0102155	.0033679	4.897392	1.830906	.0172024

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4980-03DLX5 Acquired: 12/23/2024 18:01:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ72 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0631361	.1084760	.0104651
Stddev	.0047579	.0020535	.0036918
%RSD	7.535903	1.893083	35.27692
#1	.0590341	.1104928	.0083025
#2	.0683522	.1085477	.0083650
#3	.0620221	.1063876	.0147279

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2003.054	26435.72	2153.862	1722.984	1693.400
Stddev	3.755	163.03	24.835	5.561	2.063
%RSD	.1874838	.6167024	1.153037	.3227272	.1218425
#1	2001.878	26268.91	2131.793	1718.716	1692.853
#2	2007.256	26594.68	2149.039	1729.272	1695.682
#3	2000.027	26443.57	2180.755	1720.965	1691.666

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4980-10DLX5 Acquired: 12/23/2024 18:05:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ86 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0605850	.0228003	.1700087	-.023223	.0049516	6.103151	.1350925
Stddev	.0035335	.0061664	.0055074	.004359	.0006976	.031139	.0003332
%RSD	5.832281	27.04520	3.239468	18.77012	14.08815	.5102078	.2466549
#1	.0630040	.0219210	.1669661	-.024793	.0055355	6.123395	.1347280
#2	.0622211	.0293592	.1666939	-.026580	.0051403	6.118763	.1353814
#3	.0565300	.0171208	.1763661	-.018297	.0041791	6.067294	.1351682

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008278	.0055968	339.4136	.0145827	.0440914	.0371306	26.49095
Stddev	.0002196	.0002049	.9030	.0006718	.0003974	.0037912	.07979
%RSD	26.52605	3.660715	.2660499	4.606708	.9013330	10.21056	.3011813
#1	.0008093	.0058111	338.5178	.0140318	.0436611	.0327854	26.41786
#2	.0010561	.0055764	340.3236	.0143851	.0441682	.0397645	26.57607
#3	.0006181	.0054028	339.3993	.0153311	.0444447	.0388418	26.47893

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.257891	181.8377	.0233745	.0010669	-.817469	.0232840	1.286003
Stddev	.007942	.6696	.0007933	.0005653	.479359	.0070472	.020421
%RSD	.3517393	.3682195	3.393798	52.98266	58.63938	30.26644	1.587918
#1	2.249948	181.2897	.0224617	.0016440	-.402360	.0214743	1.283503
#2	2.265832	182.5840	.0238976	.0010423	-1.34212	.0310597	1.266948
#3	2.257895	181.6394	.0237642	.0005143	-.70793	.0173181	1.307559

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7307005	.5939440	.0072030	.0039002	4.424863	2.260749	.0093082
Stddev	.0980866	.0034440	.0020497	.0005297	.025745	.015985	.0014886
%RSD	13.42364	.5798470	28.45667	13.58188	.5818235	.7070712	15.99215
#1	.6383791	.5901499	.0054680	.0045095	4.395136	2.279194	.0076302
#2	.7200409	.5968729	.0094646	.0036413	4.439535	2.252122	.0104700
#3	.8336816	.5948092	.0066763	.0035497	4.439918	2.250931	.0098244

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4980-10DLX5 Acquired: 12/23/2024 18:05:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ86 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0794060	.1092927	.0107353
Stddev	.0034369	.0002632	.0025799
%RSD	4.328298	.2407930	24.03204
#1	.0825856	.1090344	.0094238
#2	.0798728	.1092833	.0090746
#3	.0757595	.1095604	.0137075

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2003.986	26420.89	2179.962	1718.547	1696.632
Stddev	4.296	109.25	14.107	5.232	2.817
%RSD	.2143683	.4134977	.6471170	.3044147	.1660054
#1	2008.892	26521.69	2171.885	1723.220	1699.878
#2	2002.168	26304.80	2171.751	1712.896	1694.832
#3	2000.899	26436.18	2196.251	1719.526	1695.187

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4980-16DLX5 Acquired: 12/23/2024 18:09:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ90 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016155	.0211714	.1555485	-.019017	.0039210	9.235031	.1018236
Stddev	.0019151	.0013817	.0001157	.001919	.0032595	.070679	.0008791
%RSD	118.5441	6.526176	.0743937	10.09296	83.13156	.7653352	.8633669
#1	.0037472	.0195780	.1554206	-.016894	.0065176	9.183153	.1009831
#2	.0000401	.0218984	.1556459	-.020630	.0049822	9.315532	.1027368
#3	.0010592	.0220378	.1555790	-.019528	.0002630	9.206409	.1017508

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013633	.0059101	336.7644	.0162205	.0481439	.0444994	30.29759
Stddev	.0000766	.0001187	1.2856	.0003119	.0002583	.0041049	.03985
%RSD	5.617471	2.008162	.3817440	1.922648	.5365787	9.224553	.1315377
#1	.0012933	.0058616	335.3695	.0163963	.0483783	.0398221	30.25915
#2	.0014451	.0058234	337.9017	.0164047	.0478669	.0475029	30.33872
#3	.0013516	.0060454	337.0220	.0158604	.0481864	.0461732	30.29489

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.498647	154.5052	.0309664	.0018769	-1.58886	.0247675	.7513950
Stddev	.009064	1.0598	.0004783	.0007780	.61519	.0130789	.0064878
%RSD	.6048197	.6859180	1.544644	41.45096	38.71920	52.80643	.8634345
#1	1.488752	153.2946	.0311134	.0013923	-1.98556	.0342968	.7510515
#2	1.506549	155.2651	.0304318	.0014642	-.88018	.0301493	.7580477
#3	1.500640	154.9560	.0313539	.0027743	-1.90083	.0098564	.7450857

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.160694	.7325710	.0135246	.0033142	3.731418	2.387808	.0238188
Stddev	.125238	.0047748	.0018085	.0001006	.002914	.027596	.0023195
%RSD	10.78991	.6517885	13.37213	3.035644	.0780872	1.155700	9.738045
#1	1.061862	.7304731	.0115277	.0032457	3.728057	2.379831	.0264502
#2	1.118684	.7292044	.0139938	.0032673	3.733238	2.418513	.0220709
#3	1.301536	.7380356	.0150523	.0034297	3.732959	2.365078	.0229353

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4980-16DLX5 Acquired: 12/23/2024 18:09:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ90 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1201139	.1589147	.0168434
Stddev	.0063104	.0004581	.0041914
%RSD	5.253663	.2882676	24.88435
#1	.1155655	.1585003	.0187751
#2	.1273181	.1588373	.0197206
#3	.1174581	.1594066	.0120345

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2005.387	26515.53	2188.316	1729.365	1691.741
Stddev	4.340	81.99	17.618	7.062	1.818
%RSD	.2164014	.3092223	.8051069	.4083861	.1074621
#1	2009.543	26453.39	2188.277	1734.765	1693.680
#2	2000.884	26608.45	2170.718	1731.958	1690.074
#3	2005.732	26484.73	2205.954	1721.373	1691.470

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4980-17DLX5 Acquired: 12/23/2024 18:13:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJB0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001144	.0218834	.1001292	-.022716	.0022613	4.694074	.0365601
Stddev	.003528	.0023040	.0005341	.005653	.0052613	.037639	.0019672
%RSD	308.2995	10.52848	.5333613	24.88635	232.6688	.8018367	5.380812
#1	-.004009	.0198849	.0995302	-.016826	-.003540	4.710262	.0358332
#2	-.002220	.0213618	.1005555	-.028098	.006725	4.720910	.0387874
#3	.002796	.0244034	.1003020	-.023224	.003598	4.651049	.0350598

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006381	.0011312	453.5277	.0125897	.0456604	.0333369	25.31832
Stddev	.0001096	.0000461	4.8618	.0004144	.0003140	.0021044	.19989
%RSD	17.17987	4.079410	1.071993	3.291473	.6876604	6.312580	.7895250
#1	.0005707	.0011809	458.6917	.0130682	.0458158	.0355571	25.47026
#2	.0005791	.0010896	452.8526	.0123559	.0458665	.0330822	25.39283
#3	.0007646	.0011231	449.0387	.0123452	.0452991	.0313714	25.09187

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.553243	243.9532	.0208744	.0008310	-1.48101	.0059413	.2274061
Stddev	.021844	2.7829	.0003145	.0006356	.78607	.0046389	.0040053
%RSD	.8555356	1.140771	1.506611	76.48530	53.07642	78.07925	1.761307
#1	2.567509	246.5519	.0212014	.0009943	-.64340	.0028093	.2319359
#2	2.564123	244.2911	.0208474	.0001297	-2.20266	.0037440	.2243330
#3	2.528095	241.0168	.0205742	.0013690	-1.59698	.0112706	.2259494

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.408243	.4405781	.0181419	.0026596	5.664354	2.327144	.0103617
Stddev	.214565	.0023266	.0024663	.0009996	.014326	.024283	.0004377
%RSD	15.23639	.5280814	13.59417	37.58608	.2529139	1.043457	4.224607
#1	1.652706	.4392965	.0198757	.0031594	5.657618	2.344134	.0099948
#2	1.251126	.4391742	.0153185	.0015086	5.654638	2.337967	.0102440
#3	1.320898	.4432638	.0192316	.0033107	5.680806	2.299332	.0108462

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4980-17DLX5 Acquired: 12/23/2024 18:13:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJB0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0314786	.1514442	.0100129
Stddev	.0035091	.0019775	.0012568
%RSD	11.14772	1.305745	12.55177
#1	.0349694	.1536218	.0095305
#2	.0279514	.1509505	.0114394
#3	.0315152	.1497604	.0090687

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1976.700	26005.64	2169.342	1695.912	1651.054
Stddev	1.664	108.81	27.407	5.694	1.254
%RSD	.0842010	.4183925	1.263372	.3357429	.0759382
#1	1977.364	25888.18	2143.030	1689.547	1651.362
#2	1977.929	26102.99	2167.270	1697.668	1652.125
#3	1974.806	26025.75	2197.726	1700.521	1649.675

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4982-05DLX5 Acquired: 12/23/2024 18:17:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ37 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0226031	.0209468	.3716582	-.018030	.0060458	5.897618	.1377004
Stddev	.0086974	.0019438	.0024688	.003669	.0014482	.026967	.0014637
%RSD	38.47890	9.279559	.6642547	20.34997	23.95419	.4572523	1.062948
#1	.0326283	.0188573	.3742495	-.020741	.0047539	5.869512	.1361416
#2	.0170741	.0212820	.3713915	-.019493	.0057722	5.923279	.1379140
#3	.0181069	.0227013	.3693336	-.013855	.0076113	5.900062	.1390455

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009900	.0019697	334.3900	.0132414	.0446768	.0478666	25.80582
Stddev	.0001259	.0001366	1.1263	.0012027	.0005665	.0052376	.09185
%RSD	12.71462	6.933928	.3368253	9.082489	1.268061	10.94200	.3559151
#1	.0008487	.0018749	333.1206	.0143392	.0441764	.0536627	25.74587
#2	.0010310	.0021263	335.2699	.0134290	.0445620	.0434733	25.76002
#3	.0010902	.0019080	334.7794	.0119560	.0452919	.0464638	25.91156

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.316658	40.63615	.0235315	.0016276	-1.63794	.0188023	.8472718
Stddev	.003623	.03281	.0004348	.0009550	.32030	.0015145	.0160977
%RSD	.1563776	.0807452	1.847572	58.67430	19.55535	8.055100	1.899943
#1	2.317792	40.60807	.0238742	.0023691	-1.29554	.0185101	.8550156
#2	2.319578	40.67222	.0236777	.0019637	-1.93025	.0204416	.8287657
#3	2.312604	40.62817	.0230424	.0005500	-1.68802	.0174551	.8580342

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.015824	.6131991	-.002831	.0041346	.7665672	1.609571	.0098603
Stddev	.121805	.0003460	.000828	.0013735	.0066971	.011187	.0010655
%RSD	769.7650	.0564208	29.25961	33.21997	.8736491	.6950179	10.80621
#1	.097826	.6135969	-.002966	.0056981	.7592319	1.600022	.0105108
#2	-.144408	.6130317	-.001944	.0031224	.7723554	1.621879	.0086306
#3	-.000889	.6129685	-.003584	.0035833	.7681144	1.606812	.0104395

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4982-05DLX5 Acquired: 12/23/2024 18:17:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ37 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1198300	.1746341	.0037550
Stddev	.0057349	.0012565	.0002215
%RSD	4.785838	.7195249	5.898616
#1	.1157418	.1731856	.0040102
#2	.1173626	.1752848	.0036421
#3	.1263856	.1754317	.0036128

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2065.326	27221.26	2221.234	1791.741	1766.403
Stddev	2.873	75.84	7.483	6.546	3.689
%RSD	.1390962	.2785986	.3368961	.3653631	.2088619
#1	2068.463	27159.25	2229.593	1784.359	1770.020
#2	2062.823	27305.81	2215.157	1794.026	1762.646
#3	2064.692	27198.72	2218.952	1796.839	1766.543

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4982-15DLX5 Acquired: 12/23/2024 18:21:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJE9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006336	.0255890	.0239070	-.022070	.0039486	7.279945	.1139026
Stddev	.004903	.0030226	.0012878	.003073	.0039360	.026499	.0013753
%RSD	77.38642	11.81200	5.386596	13.92610	99.68098	.3640032	1.207393
#1	-.006623	.0260230	.0249155	-.019658	.0083670	7.273431	.1142989
#2	-.011090	.0283711	.0243491	-.025530	.0008171	7.309093	.1123727
#3	-.001296	.0223729	.0224564	-.021021	.0026617	7.257310	.1150361

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005279	.0004352	348.0983	.0110267	.0447438	.0323766	24.10949
Stddev	.0000680	.0000965	.4110	.0007535	.0006305	.0040193	.09009
%RSD	12.87663	22.18240	.1180817	6.832937	1.409170	12.41405	.3736502
#1	.0004512	.0003881	347.7725	.0118131	.0448591	.0361934	24.04856
#2	.0005807	.0003712	347.9624	.0109558	.0440636	.0327547	24.06695
#3	.0005518	.0005462	348.5601	.0103112	.0453088	.0281817	24.21297

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.183944	15.72498	.0190209	.0020932	-1.13400	.0196697	.0453291
Stddev	.002629	.01052	.0004018	.0008179	.46225	.0071874	.0084383
%RSD	.0825548	.0669187	2.112405	39.07310	40.76246	36.54047	18.61567
#1	3.185233	15.72453	.0193786	.0016900	-.75652	.0250094	.0438379
#2	3.180920	15.73572	.0185862	.0015552	-.99594	.0114976	.0544137
#3	3.185678	15.71469	.0190980	.0030344	-1.64955	.0225019	.0377358

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1618295	.8982922	-.001056	.0018135	.2264604	1.865390	.0047267
Stddev	.0596994	.0037460	.001761	.0005357	.0063049	.009365	.0016946
%RSD	36.89031	.4170129	166.7972	29.53853	2.784099	.5020465	35.85155
#1	.1932370	.8980732	-.001474	.0023549	.2318357	1.854640	.0053545
#2	.0929826	.8946604	-.002571	.0012837	.2280248	1.871778	.0060178
#3	.1992689	.9021428	.000877	.0018020	.2195205	1.869753	.0028078

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4982-15DLX5 Acquired: 12/23/2024 18:21:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJE9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1336103	.1877428	.0045604
Stddev	.0025151	.0005535	.0044469
%RSD	1.882434	.2948125	97.51124
#1	.1357562	.1877865	-.000452
#2	.1308426	.1871687	.008030
#3	.1342321	.1882731	.006103

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2054.576	26926.17	2208.888	1768.536	1766.309
Stddev	2.007	211.81	5.146	10.813	1.845
%RSD	.0976608	.7866444	.2329512	.6113850	.1044293
#1	2056.319	26759.54	2205.955	1767.359	1767.012
#2	2055.025	27164.54	2214.829	1779.889	1767.699
#3	2052.382	26854.43	2205.879	1758.360	1764.216

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4982-16DLX5 Acquired: 12/23/2024 18:24:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJF0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011489	.0231043	.0906633	-.022388	.0055530	8.664271	.1426636
Stddev	.0060340	.0009636	.0030849	.000592	.0029060	.048648	.0009306
%RSD	525.2159	4.170529	3.402582	2.643681	52.33179	.5614725	.6522683
#1	.0063828	.0235678	.0873997	-.022932	.0081954	8.677331	.1427698
#2	.0025148	.0219965	.0935314	-.021757	.0024406	8.610427	.1416844
#3	-.005451	.0237485	.0910586	-.022475	.0060231	8.705056	.1435364

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006892	.0006221	545.5678	.0123917	.0521600	.0261224	29.53548
Stddev	.0000434	.0001063	1.5207	.0004670	.0005052	.0041996	.04830
%RSD	6.297997	17.08707	.2787336	3.768783	.9686165	16.07666	.1635249
#1	.0007387	.0005702	546.6087	.0128501	.0522642	.0218745	29.58910
#2	.0006575	.0005517	543.8227	.0124083	.0526050	.0302719	29.49539
#3	.0006715	.0007443	546.2721	.0119166	.0516108	.0262207	29.52195

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.814508	24.22157	.0218252	.0011876	-1.76879	.0161265	.0678452
Stddev	.023787	.20716	.0005138	.0004005	.29092	.0070007	.0114030
%RSD	.4940793	.8552577	2.353960	33.72211	16.44763	43.41142	16.80732
#1	4.833459	24.38887	.0219429	.0012519	-1.44355	.0096620	.0731672
#2	4.787813	23.98986	.0222699	.0015520	-1.85860	.0235621	.0547542
#3	4.822252	24.28598	.0212628	.0007589	-2.00423	.0151554	.0756142

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2235889	1.108999	-.004211	.0020056	.3098742	1.871246	.0103254
Stddev	.1269002	.002092	.000564	.0007247	.0027718	.004652	.0008936
%RSD	56.75602	.1886127	13.39276	36.13518	.8945018	.2485946	8.654610
#1	.0798386	1.107164	-.004389	.0017907	.3068597	1.876552	.0113551
#2	.2708562	1.108558	-.004664	.0014126	.3123130	1.867868	.0097530
#3	.3200719	1.111277	-.003579	.0028135	.3104499	1.869319	.0098681

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4982-16DLX5 Acquired: 12/23/2024 18:24:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJF0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1524840	.2716635	.0062823
Stddev	.0030215	.0007260	.0051675
%RSD	1.981498	.2672346	82.25474
#1	.1527913	.2719379	.0003187
#2	.1493206	.2722122	.0090934
#3	.1553400	.2708403	.0094350

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2054.959	26931.27	2232.617	1769.306	1720.552
Stddev	3.967	95.57	9.154	8.508	1.359
%RSD	.1930634	.3548645	.4099979	.4808794	.0789640
#1	2057.128	26839.62	2222.112	1761.231	1720.827
#2	2050.380	26923.88	2238.880	1768.498	1719.077
#3	2057.369	27030.33	2236.860	1778.190	1721.752

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5008-02DLX5 Acquired: 12/23/2024 18:28:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJJ1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006893	.0264219	.1036589	-.022874	.0012420	2.581575	.0292457
Stddev	.004469	.0029227	.0027456	.005176	.0034332	.007291	.0013540
%RSD	64.83191	11.06176	2.648660	22.62966	276.4203	.2824228	4.629769
#1	-.010482	.0288619	.1010295	-.017229	.0001943	2.574070	.0304199
#2	-.001888	.0272211	.1065075	-.023994	.0050770	2.582023	.0277646
#3	-.008310	.0231827	.1034397	-.027398	-.001545	2.588631	.0295526

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004618	.0020878	369.3511	.0088495	.0417532	.0134405	18.00434
Stddev	.0000880	.0001190	1.5519	.0012960	.0006105	.0108501	.06258
%RSD	19.06043	5.700875	.4201697	14.64475	1.462179	80.72706	.3475752
#1	.0003625	.0022230	370.9368	.0097862	.0415588	.0010116	18.05875
#2	.0004926	.0019991	367.8353	.0073705	.0424372	.0210210	17.93596
#3	.0005303	.0020412	369.2813	.0093919	.0412635	.0182888	18.01832

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.169048	211.2909	.0126973	.0008239	-1.39631	.0132469	.4506616
Stddev	.010796	1.0545	.0012656	.0009390	1.03705	.0036682	.0101771
%RSD	.4977083	.4990629	9.967737	113.9659	74.27103	27.69120	2.258259
#1	2.181413	212.4012	.0122120	.0019069	-2.50151	.0110788	.4415446
#2	2.164229	210.3030	.0141338	.0002368	-1.24292	.0111798	.4487988
#3	2.161501	211.1684	.0117462	.0003280	-.44449	.0174822	.4616414

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4554634	.3325242	.0090548	.0026794	3.399589	1.532068	.0177411
Stddev	.1021573	.0010877	.0015911	.0006932	.002072	.009750	.0010457
%RSD	22.42930	.3271126	17.57141	25.87115	.0609434	.6364031	5.893955
#1	.5554976	.3337761	.0076815	.0029705	3.400306	1.541652	.0187741
#2	.3513078	.3319860	.0107984	.0018881	3.397254	1.522160	.0166832
#3	.4595847	.3318105	.0086845	.0031796	3.401208	1.532391	.0177660

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5008-02DLX5 Acquired: 12/23/2024 18:28:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJJ1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0215785	.0982554	.0034053
Stddev	.0068394	.0001775	.0031597
%RSD	31.69549	.1806926	92.78749
#1	.0194054	.0981370	.0001185
#2	.0160896	.0981697	.0036769
#3	.0292404	.0984596	.0064204

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1980.491	26243.33	2141.887	1708.454	1682.653
Stddev	7.437	174.24	12.501	13.373	3.027
%RSD	.3755091	.6639214	.5836414	.7827751	.1799154
#1	1983.758	26277.47	2130.056	1709.931	1683.198
#2	1971.980	26054.55	2140.641	1694.403	1679.391
#3	1985.735	26397.97	2154.964	1721.027	1685.372

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5008-03DLX5 Acquired: 12/23/2024 18:32:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJJ3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006588	.0239341	.0831343	-.027282	.0048211	2.092789	.0515776
Stddev	.0025659	.0028377	.0020080	.001557	.0020763	.013461	.0010544
%RSD	389.4796	11.85624	2.415333	5.707520	43.06622	.6431880	2.044257
#1	-.000925	.0239403	.0848069	-.029075	.0071875	2.093727	.0526407
#2	-.000717	.0210934	.0809074	-.026265	.0033051	2.078884	.0515600
#3	.003619	.0267688	.0836886	-.026507	.0039706	2.105756	.0505321

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005163	.0011742	406.4793	.0068278	.0427413	.0202370	18.44085
Stddev	.0000813	.0001988	1.3190	.0005156	.0004960	.0047089	.03997
%RSD	15.74160	16.93308	.3244830	7.551236	1.160389	23.26899	.2167640
#1	.0004235	.0009865	404.9678	.0072002	.0433050	.0254309	18.39674
#2	.0005749	.0011535	407.3968	.0062393	.0425467	.0190335	18.45115
#3	.0005505	.0013825	407.0734	.0070439	.0423721	.0162466	18.47467

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.333547	230.2255	.0118840	.0008289	-.737505	.0055717	.2468732
Stddev	.008605	.6767	.0003246	.0008820	.747251	.0126021	.0127078
%RSD	.3687699	.2939333	2.731000	106.4024	101.3214	226.1807	5.147499
#1	2.332657	229.4583	.0117803	-.000188	-.971743	.0187854	.2533689
#2	2.325421	230.4808	.0116241	.001285	.098803	.0042434	.2550203
#3	2.342563	230.7375	.0122478	.001389	-1.33958	-.006314	.2322306

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4504427	.2353978	.0082981	.0028320	3.831516	1.329660	.0068418
Stddev	.2572071	.0023870	.0011284	.0003046	.003180	.004212	.0006967
%RSD	57.10095	1.014046	13.59874	10.75670	.0829892	.3168014	10.18359
#1	.1661581	.2334686	.0094793	.0025148	3.834729	1.324892	.0076364
#2	.6670308	.2346576	.0081840	.0031223	3.828371	1.331210	.0065534
#3	.5181392	.2380673	.0072311	.0028588	3.831447	1.332878	.0063356

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5008-03DLX5 Acquired: 12/23/2024 18:32:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJJ3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0131964	.1083045	-.001472
Stddev	.0037222	.0003315	.002711
%RSD	28.20582	.3060529	184.1502
#1	.0174416	.1079375	.001302
#2	.0116553	.1083939	-.004116
#3	.0104923	.1085821	-.001603

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1962.389	25827.64	2131.022	1683.279	1664.981
Stddev	2.605	46.39	7.927	2.632	2.711
%RSD	.1327591	.1796185	.3719745	.1563615	.1628178
#1	1959.384	25799.22	2128.625	1681.107	1662.001
#2	1964.016	25802.54	2124.571	1682.524	1667.300
#3	1963.766	25881.18	2139.871	1686.206	1665.642

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5008-04DLX5 Acquired: 12/23/2024 18:36:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJJ4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005392	.0284961	.3428788	-.027982	.0019532	1.849447	.0169262
Stddev	.003198	.0099637	.0003997	.003763	.0023027	.044669	.0011402
%RSD	59.30839	34.96516	.1165861	13.44914	117.8941	2.415248	6.736368
#1	-.006055	.0236701	.3426340	-.023933	.0003828	1.832293	.0170806
#2	-.008207	.0218643	.3433401	-.028640	.0008802	1.815898	.0179814
#3	-.001915	.0399538	.3426623	-.031373	.0045966	1.900150	.0157167

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003907	.0021180	400.9978	.0060913	.0415626	.0140085	19.11426
Stddev	.0001774	.0001023	1.6440	.0009120	.0006374	.0059930	.06186
%RSD	45.41367	4.831638	.4099824	14.97232	1.533624	42.78135	.3236367
#1	.0002095	.0020740	399.6815	.0054139	.0410097	.0072886	19.05477
#2	.0005640	.0020451	402.8406	.0071283	.0414183	.0187997	19.17825
#3	.0003985	.0022350	400.4714	.0057316	.0422597	.0159372	19.10976

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.434269	226.7441	.0104844	.0009095	-1.68723	.0157431	.4024766
Stddev	.009964	.7858	.0006136	.0015893	.16661	.0085271	.0025201
%RSD	.4093367	.3465602	5.852137	174.7575	9.874993	54.16403	.6261503
#1	2.425023	226.2362	.0106273	-.000898	-1.49798	.0183129	.4052008
#2	2.444823	227.6492	.0098121	.002089	-1.75188	.0062266	.4020005
#3	2.432962	226.3468	.0110140	.001538	-1.81183	.0226897	.4002285

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4038307	.2047228	.0060053	.0022968	4.996913	1.208607	.0061608
Stddev	.1237583	.0007154	.0025671	.0009255	.004010	.009544	.0015689
%RSD	30.64608	.3494618	42.74638	40.29541	.0802538	.7896987	25.46615
#1	.4391596	.2049742	.0059355	.0024116	4.992363	1.200362	.0045142
#2	.5060829	.2039157	.0086066	.0013193	4.998442	1.219063	.0063298
#3	.2662496	.2052787	.0034739	.0031597	4.999934	1.206396	.0076384

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5008-04DLX5 Acquired: 12/23/2024 18:36:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJJ4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0080596	.1036663	-.001116
Stddev	.0037114	.0004663	.004007
%RSD	46.04919	.4498189	358.9712
#1	.0113432	.1031356	-.005108
#2	.0088029	.1040105	-.001148
#3	.0040329	.1038529	.002907

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1967.820	25909.71	2144.393	1685.646	1665.735
Stddev	3.498	56.83	16.036	9.275	2.406
%RSD	.1777674	.2193468	.7478331	.5502290	.1444689
#1	1964.583	25895.73	2154.954	1676.623	1664.339
#2	1971.531	25861.18	2125.940	1685.162	1668.514
#3	1967.347	25972.23	2152.285	1695.154	1664.352

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5008-05DLX5 Acquired: 12/23/2024 18:40:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJJ5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001754	.0292548	.0714621	-.027320	.0052688	1.966409	.0165149
Stddev	.007529	.0015165	.0054422	.006557	.0007328	.025391	.0020055
%RSD	429.2260	5.183803	7.615546	24.00119	13.90860	1.291212	12.14343
#1	.000986	.0302044	.0694556	-.022657	.0056176	1.993899	.0150441
#2	.004021	.0300543	.0776227	-.024486	.0057621	1.943838	.0157012
#3	-.010270	.0275059	.0673080	-.034818	.0044268	1.961490	.0187993

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003757	.0186755	418.7312	.0068313	.0423623	.0194529	18.92598
Stddev	.0000860	.0000826	.7962	.0006851	.0004296	.0108785	.13553
%RSD	22.88863	.4423436	.1901445	10.02908	1.014055	55.92205	.7161005
#1	.0002850	.0186403	419.6488	.0075885	.0421014	.0070307	18.90387
#2	.0003859	.0186164	418.3216	.0066513	.0421274	.0240495	19.07121
#3	.0004561	.0187699	418.2231	.0062542	.0428581	.0272786	18.80287

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.454974	234.9157	.0098374	.0012096	-1.59853	.0028560	3.852280
Stddev	.009342	.9821	.0007622	.0013931	.56441	.0166762	.029183
%RSD	.3805497	.4180559	7.748197	115.1664	35.30825	583.8986	.7575629
#1	2.465439	235.9520	.0106580	-.000121	-2.24376	-.000013	3.833072
#2	2.452010	234.7963	.0097026	.001092	-1.19643	.020781	3.885862
#3	2.447473	233.9988	.0091515	.002658	-1.35539	-.012200	3.837906

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3193399	.2093327	.0089925	.0036428	5.622400	1.260976	.0100429
Stddev	.0758014	.0022090	.0007031	.0006370	.021818	.003038	.0021429
%RSD	23.73690	1.055261	7.818540	17.48653	.3880619	.2408983	21.33741
#1	.4059523	.2089887	.0086966	.0039530	5.599235	1.264182	.0087107
#2	.2869681	.2073159	.0097952	.0029101	5.642560	1.258141	.0089031
#3	.2650992	.2116936	.0084857	.0040652	5.625406	1.260604	.0125148

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5008-05DLX5 Acquired: 12/23/2024 18:40:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJJ5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0138904	.1115539	-.002674
Stddev	.0026093	.0004794	.002096
%RSD	18.78460	.4297054	78.35603
#1	.0117930	.1119952	-.001472
#2	.0130658	.1110439	-.001457
#3	.0168123	.1116226	-.005094

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1932.187	25410.79	2099.174	1655.376	1631.970
Stddev	4.890	15.80	11.434	7.251	4.875
%RSD	.2530689	.0621869	.5447029	.4380303	.2987094
#1	1936.924	25405.59	2086.600	1655.929	1636.259
#2	1927.157	25398.24	2108.949	1647.864	1626.668
#3	1932.481	25428.54	2101.973	1662.334	1632.983

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5008-06DLX5 Acquired: 12/23/2024 18:44:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJJ6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.008676	.0226404	.0944708	-.032731	.0021269	4.451889	.0811229
Stddev	.004714	.0059048	.0018119	.005391	.0019453	.041038	.0016150
%RSD	54.33664	26.08070	1.917927	16.47145	91.45956	.9218180	1.990773
#1	-.010056	.0203426	.0962458	-.038853	.0043041	4.405148	.0793247
#2	-.003426	.0293487	.0926242	-.028692	.0005597	4.482014	.0815942
#3	-.012547	.0182300	.0945425	-.030648	.0015170	4.468503	.0824498

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005323	.0014468	399.9398	.0089355	.0415246	.0185599	17.95015
Stddev	.0000474	.0002024	2.1771	.0011417	.0003250	.0068211	.14571
%RSD	8.907792	13.98858	.5443664	12.77704	.7825879	36.75210	.8117479
#1	.0005868	.0012689	397.4531	.0084091	.0416618	.0133035	17.78353
#2	.0005003	.0016670	401.5027	.0081520	.0411535	.0262680	18.01316
#3	.0005098	.0014046	400.8637	.0102455	.0417584	.0161082	18.05374

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.460626	191.5481	.0117640	.0007527	-1.25869	.0102571	.3186947
Stddev	.023361	1.0303	.0003556	.0011149	.54851	.0009830	.0106128
%RSD	.9494059	.5378594	3.022784	148.1298	43.57795	9.583704	3.330077
#1	2.435356	190.3601	.0120467	.0017663	-1.36521	.0113863	.3115157
#2	2.465088	192.1959	.0118805	-.000441	-1.74612	.0095923	.3308852
#3	2.481435	192.0883	.0113648	.000933	-.66473	.0097928	.3136831

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1885476	.3389806	.0069871	.0030204	3.309096	2.238938	.0063669
Stddev	.0725911	.0008056	.0005738	.0007197	.014024	.010114	.0024087
%RSD	38.50017	.2376667	8.212196	23.82799	.4237999	.4517257	37.83221
#1	.2536585	.3389422	.0074085	.0024546	3.323988	2.234036	.0083473
#2	.1102767	.3398047	.0063336	.0038304	3.296141	2.250569	.0036854
#3	.2017075	.3381948	.0072192	.0027762	3.307161	2.232210	.0070679

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5008-06DLX5 Acquired: 12/23/2024 18:44:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJJ6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1147140	.2399615	-.000647
Stddev	.0000620	.0014461	.004746
%RSD	.0540509	.6026351	733.7122
#1	.1146845	.2382998	-.004653
#2	.1146722	.2409346	.004595
#3	.1147852	.2406502	-.001883

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1961.832	25979.67	2144.821	1689.362	1665.091
Stddev	5.606	76.02	10.513	6.033	3.010
%RSD	.2857545	.2926277	.4901435	.3571164	.1807778
#1	1957.912	26062.96	2146.123	1696.135	1662.100
#2	1968.253	25962.05	2133.717	1684.564	1668.120
#3	1959.331	25914.01	2154.621	1687.387	1665.053

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5183-20ADLX2 Acquired: 12/23/2024 18:48:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCZD8A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4622246	-.125572	.3200555	.2386648	.1061540	183.9073	.3382911
Stddev	.0028728	.003315	.0008298	.0033250	.0012954	.3021	.0016271
%RSD	.6215253	2.640221	.2592740	1.393178	1.220323	.1642690	.4809657
#1	.4597157	-.121746	.3191407	.2414436	.1047973	184.2495	.3376592
#2	.4653585	-.127583	.3207597	.2349810	.1062868	183.6778	.3370749
#3	.4615997	-.127389	.3202662	.2395700	.1073780	183.7945	.3401394

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0091249	.0107177	45.45790	2.233864	.3046100	5.353763	420.1484
Stddev	.0000772	.0001011	.15928	.006527	.0008565	.032041	1.0481
%RSD	.8458250	.9432726	.3503807	.2921972	.2811899	.5984833	.2494526
#1	.0090454	.0106028	45.64096	2.240609	.3041272	5.388692	421.2781
#2	.0091299	.0107933	45.38176	2.227579	.3041038	5.325733	419.2077
#3	.0091995	.0107569	45.35099	2.233404	.3055989	5.346864	419.9594

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.456250	139.1851	.5066699	.0087880	-.829030	1.012571	.7079383
Stddev	.019180	1.0326	.0005655	.0007269	.561301	.016202	.0106370
%RSD	.2572323	.7418801	.1116098	8.271586	67.70575	1.600115	1.502535
#1	7.477531	140.3548	.5072918	.0079991	-.861620	1.017054	.7085648
#2	7.440299	138.8008	.5065313	.0094306	-.252144	.994599	.6970019
#3	7.450920	138.3998	.5061867	.0089344	-1.37333	1.026060	.7182483

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6703665	2.177076	-.079826	-.000822	.3330764	7.326280	.0462852
Stddev	.1277364	.005174	.004894	.001054	.0056440	.028637	.0010134
%RSD	19.05471	.2376515	6.130385	128.2659	1.694518	.3908864	2.189557
#1	.5427411	2.178425	-.076121	-.000012	.3324964	7.355264	.0455108
#2	.6701450	2.171362	-.085373	-.000439	.3389881	7.325573	.0474322
#3	.7982136	2.181442	-.077984	-.002013	.3277448	7.298002	.0459127

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5183-20ADLX2 Acquired: 12/23/2024 18:48:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCZD8A Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	6.569096	-.277067	.0696705
Stddev	.022876	.000249	.0020130
%RSD	.3482440	.0897404	2.889298
#1	6.594770	-.277314	.0676762
#2	6.561643	-.276816	.0696337
#3	6.550876	-.277072	.0717016

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2209.135	28921.21	2385.876	1901.142	1844.768
Stddev	3.491	149.41	16.091	5.571	2.815
%RSD	.1580306	.5165957	.6744416	.2930466	.1526060
#1	2207.209	28754.55	2368.431	1896.206	1844.178
#2	2213.165	29043.14	2389.059	1900.036	1847.832
#3	2207.031	28965.93	2400.138	1907.183	1842.295

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5009-04A Acquired: 12/23/2024 18:52:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJQ3A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0692813	.0130976	.1886873	.1476454	.0299546	66.99090
Stddev	.0019867	.0049091	.0029220	.0068575	.0038345	.21676
%RSD	2.867542	37.48095	1.548608	4.644593	12.80086	.3235722
#1	.0673447	.0148292	.1867491	.1479207	.0343770	66.76110
#2	.0713145	.0169063	.1872645	.1543611	.0275565	67.01988
#3	.0691848	.0075574	.1920482	.1406543	.0279304	67.19171

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7823254	.0053926	.0069907	231.7730	.1135590	.1302838
Stddev	.0017531	.0000602	.0001570	.7668	.0013025	.0006049
%RSD	.2240886	1.116881	2.245248	.3308621	1.146976	.4643172
#1	.7805054	.0054534	.0068154	231.3378	.1150009	.1304758
#2	.7824681	.0053914	.0071180	231.3227	.1124677	.1307695
#3	.7840029	.0053329	.0070388	232.6584	.1132085	.1296062

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4081013	154.2592	12.07134	94.91377	.2084822	.0054240
Stddev	.0114847	.3507	.02191	.10022	.0009122	.0010219
%RSD	2.814171	.2273565	.1815161	.1055856	.4375493	18.84041
#1	.4119879	153.9318	12.07703	94.99411	.2090392	.0045911
#2	.3951776	154.2165	12.04714	94.80147	.2089778	.0065643
#3	.4171384	154.6294	12.08984	94.94572	.2074294	.0051166

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.368396	.1677963	1.805927	7.607620	F 11.58929	.0045136
Stddev	.321640	.0052534	.030858	.049560	.00932	.0021253
%RSD	87.30817	3.130800	1.708716	.6514494	.0804156	47.08652
#1	-.714905	.1626056	1.808810	7.564221	11.59081	.0037846
#2	-.079379	.1731101	1.773728	7.661624	11.57930	.0028487
#3	-.310905	.1676731	1.835242	7.597015	11.59775	.0069074

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5009-04A Acquired: 12/23/2024 18:52:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJQ3A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049444	1.939975	8.477367	.0280806	1.359144	.0862852
Stddev	.0001221	.006495	.059182	.0035640	.004462	.0005818
%RSD	2.469035	.3348099	.6981203	12.69205	.3282989	.6742190
#1	.0049874	1.939115	8.512747	.0246943	1.361166	.0856329
#2	.0048067	1.946857	8.510312	.0277486	1.354029	.0867504
#3	.0050392	1.933952	8.409044	.0317991	1.362237	.0864723

Elem	Li6707
Units	ppm
Avg	.1147043
Stddev	.0033077
%RSD	2.883636
#1	.1159101
#2	.1172399
#3	.1109629

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2475.371	32462.53	2690.801	2115.998	1719.197
Stddev	7.232	162.59	20.131	9.359	2.746
%RSD	.2921628	.5008653	.7481368	.4423203	.1597477
#1	2469.697	32363.45	2683.509	2108.460	1716.606
#2	2472.902	32373.96	2675.333	2113.059	1718.907
#3	2483.515	32650.18	2713.562	2126.474	1722.076

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5028-07A Acquired: 12/23/2024 18:56:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK40A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1795409	-.078437	1.137132	.1788945	.0467682	103.0509	.7920809
Stddev	.0037665	.006947	.005839	.0024412	.0012444	.8388	.0056524
%RSD	2.097865	8.856630	.5134479	1.364599	2.660851	.8139732	.7136081
#1	.1804175	-.070839	1.136677	.1816549	.0473657	102.2228	.7857364
#2	.1754134	-.080009	1.143185	.1770197	.0453377	103.0300	.7939268
#3	.1827919	-.084464	1.131534	.1780089	.0476012	103.9000	.7965796

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0096993	.0081117	85.44023	.1526382	.1595219	.2967148	236.1313
Stddev	.0000646	.0000954	.56159	.0003751	.0005814	.0069019	1.7849
%RSD	.6657112	1.176535	.6572862	.2457245	.3644430	2.326108	.7558931
#1	.0096308	.0081481	84.85558	.1530625	.1601307	.2984551	234.1641
#2	.0097080	.0080034	85.48962	.1523507	.1594623	.3025800	236.5825
#3	.0097591	.0081836	85.97549	.1525015	.1589726	.2891093	237.6473

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.34341	33.54203	.2030754	.0087099	-.735231	.2286230	1.104654
Stddev	.11722	.15741	.0009069	.0005016	1.162032	.0046776	.021903
%RSD	.7172089	.4692783	.4466020	5.759194	158.0499	2.045973	1.982799
#1	16.22376	33.36147	.2030452	.0089176	-1.99239	.2324092	1.120067
#2	16.34844	33.61427	.2039971	.0081378	-.51284	.2233940	1.079582
#3	16.45803	33.65034	.2021840	.0090743	.29953	.2300657	1.114315

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.136192	3.651235	-.012288	.0062380	1.535114	11.85546	.0436749
Stddev	.126574	.012801	.002448	.0003201	.010950	.11726	.0011499
%RSD	2.464359	.3505830	19.92379	5.131180	.7133196	.9890806	2.632744
#1	5.076262	3.639415	-.013500	.0065953	1.530566	11.72914	.0445724
#2	5.281601	3.664831	-.013894	.0061413	1.547605	11.96083	.0423788
#3	5.050713	3.649459	-.009470	.0059774	1.527170	11.87643	.0440735

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5028-07A Acquired: 12/23/2024 18:56:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK40A Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7919357	-.014884	.0877152
Stddev	.0033345	.000544	.0024420
%RSD	.4210625	3.656071	2.784039
#1	.7933823	-.014288	.0905091
#2	.7881222	-.015010	.0859879
#3	.7943027	-.015355	.0866486

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2740.530	35584.75	2872.882	2359.523	1859.512
Stddev	7.988	107.57	12.351	15.059	9.372
%RSD	.2914716	.3022998	.4299292	.6382343	.5039976
#1	2739.606	35463.14	2886.790	2342.958	1860.714
#2	2733.045	35667.47	2863.194	2372.387	1849.597
#3	2748.940	35623.63	2868.661	2363.222	1868.225

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCV004 Acquired: 12/23/2024 19:00:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV004 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.019509	4.821603	24.42597	4.875769	4.851593	399.7338	10.08989
Stddev	.023783	.005401	.06830	.006974	.009453	1.7724	.03393
%RSD	.4738149	.1120076	.2796274	.1430278	.1948371	.4433912	.3362843
#1	4.993833	4.815518	24.34717	4.868180	4.843200	398.2401	10.06685
#2	5.023908	4.823466	24.46265	4.881895	4.849748	399.2690	10.07397
#3	5.040785	4.825825	24.46810	4.877232	4.861833	401.6923	10.12885

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5057061	2.454921	407.7454	15.31886	2.452838	15.08147	411.9755
Stddev	.0074066	.006038	1.7317	.02561	.005936	.05396	2.5316
%RSD	1.464598	.2459713	.4247025	.1671833	.2419997	.3578049	.6145055
#1	.4972752	2.448134	406.2024	15.34740	2.446440	15.05890	409.8047
#2	.5086780	2.459699	407.4154	15.31126	2.458166	15.04246	411.3653
#3	.5111651	2.456929	409.6183	15.29790	2.453908	15.14306	414.7564

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.00170	407.0850	2.479428	1.281834	404.3539	2.534611	15.47284
Stddev	.03900	1.8423	.003329	.002162	3.2269	.006036	.13283
%RSD	.2599990	.4525540	.1342604	.1686488	.7980417	.2381519	.8584841
#1	14.97020	405.4680	2.475659	1.284135	402.2385	2.535253	15.61449
#2	14.98956	406.6964	2.481969	1.279846	402.7551	2.528280	15.45297
#3	15.04533	409.0906	2.480655	1.281520	408.0680	2.540301	15.35106

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	150.8999	4.926005	4.829114	4.868374	4.889106	4.762549	4.962740
Stddev	.4358	.011972	.054141	.011856	.012509	.056815	.014097
%RSD	.2888269	.2430299	1.121136	.2435240	.2558560	1.192963	.2840483
#1	150.5456	4.915963	4.772093	4.863841	4.875045	4.697926	4.951286
#2	150.7676	4.939253	4.835426	4.859454	4.898998	4.785071	4.978483
#3	151.3866	4.922798	4.879822	4.881828	4.893275	4.804651	4.958451

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCV004 Acquired: 12/23/2024 19:00:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV004 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	4.999172	4.743997	5.064694
Stddev	.024382	.015818	.024304
%RSD	.4877159	.3334417	.4798645
#1	4.986671	4.728339	5.043354
#2	4.983577	4.743682	5.059579
#3	5.027269	4.759971	5.091148

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1786.292	24327.61	2090.581	1520.345	1562.435
Stddev	4.359	114.93	19.237	8.998	3.347
%RSD	.2440284	.4724192	.9201594	.5918565	.2142006
#1	1781.259	24210.58	2112.768	1514.151	1561.257
#2	1788.881	24331.92	2078.555	1516.218	1559.837
#3	1788.736	24440.31	2080.422	1530.667	1566.212

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCB004 Acquired: 12/23/2024 19:03:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB004 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003056	.0010860	.0031785	.0048141	-.000613	.0611703	-.003997
Stddev	.003019	.0010582	.0006492	.0022029	.001990	.0118890	.002086
%RSD	98.79424	97.43986	20.42649	45.75841	324.6471	19.43588	52.18499
#1	-.002564	.0020620	.0031994	.0023437	-.001589	.0611508	-.003033
#2	-.000313	.0012347	.0025190	.0055246	-.001927	.0730691	-.006390
#3	-.006291	-.000039	.0038170	.0065740	.001677	.0492911	-.002567

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000885	-.000005	-.007757	-.000276	-.000150	.0089116	.0442300
Stddev	.0001850	.000023	.004700	.000610	.000194	.0139967	.0400063
%RSD	208.9664	486.3816	60.58704	220.9081	129.4071	157.0615	90.45069
#1	.0002824	.000022	-.013180	-.000285	-.000362	.0024689	.0214768
#2	-.000086	-.000022	-.004854	.000338	.000021	-.000704	.0207895
#3	.000069	-.000014	-.005238	-.000881	-.000110	.024970	.0904236

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019632	.0218244	.0007121	.0000137	-1.81516	.0003220	-.005952
Stddev	.0014355	.0230076	.0005021	.0007024	.23617	.0034703	.014331
%RSD	73.11929	105.4216	70.50619	5140.920	13.01087	1077.631	240.7758
#1	.0005056	.0161650	.0011655	-.000274	-2.08690	.0043286	-.010350
#2	.0020084	.0471335	.0007984	-.000499	-1.65949	-.001740	-.017568
#3	.0033755	.0021745	.0001725	.000814	-1.69908	-.001623	.010062

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.618107	.0003385	.0035311	.0010287	-.006932	-.080831	.0003060
Stddev	.210034	.0008145	.0025715	.0002541	.003160	.001023	.0010054
%RSD	33.98020	240.6078	72.82475	24.69505	45.58359	1.265557	328.5235
#1	-.722772	.0011327	.0031289	.0012449	-.010551	-.081843	.0004107
#2	-.376306	-.000495	.0011844	.0010925	-.004717	-.079797	.0012550
#3	-.755243	.000378	.0062801	.0007489	-.005529	-.080854	-.000748

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCB004 Acquired: 12/23/2024 19:03:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB004 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0034276	.0001392	.0052659
Stddev	.0033304	.0003006	.0022124
%RSD	97.16518	215.9678	42.01407
#1	.0009325	.0003213	.0036034
#2	.0021409	.0003040	.0044174
#3	.0072094	-.000208	.0077770

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2021.713	26570.15	2133.116	1751.389	1832.215
Stddev	5.537	98.23	12.034	12.238	3.680
%RSD	.2738572	.3696827	.5641562	.6987471	.2008499
#1	2019.378	26457.34	2119.485	1737.274	1828.230
#2	2017.726	26636.78	2137.591	1759.025	1832.932
#3	2028.034	26616.32	2142.271	1757.868	1835.485

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5033-05A Acquired: 12/23/2024 19:07:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK97A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0895516	-.028352	3.079321	.1060495	.0307467	60.95800	1.504281
Stddev	.0053409	.005313	.006260	.0043019	.0024214	.83729	.016520
%RSD	5.964053	18.73935	.2032931	4.056541	7.875237	1.373553	1.098227
#1	.0839286	-.034400	3.078769	.1025294	.0335300	61.07491	1.503954
#2	.0945567	-.026219	3.073355	.1108448	.0295853	60.06840	1.487927
#3	.0901694	-.024437	3.085838	.1047742	.0291247	61.73069	1.520963

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0061985	.0086854	251.9745	.1258857	.1018306	.2968220	134.2558
Stddev	.0001544	.0001050	2.3108	.0008408	.0007723	.0074194	1.2818
%RSD	2.490104	1.209191	.9170580	.6679300	.7584093	2.499614	.9547158
#1	.0062445	.0087992	251.7522	.1258777	.1011653	.2910020	134.2387
#2	.0060263	.0085922	249.7830	.1250490	.1016491	.2942874	132.9826
#3	.0063245	.0086647	254.3884	.1267306	.1026775	.3051765	135.5460

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.407109	52.17221	.1796557	.0061953	-1.02146	.1464662	5.119983
Stddev	.067614	.55118	.0005724	.0002984	.28295	.0017759	.030509
%RSD	.8042506	1.056471	.3185991	4.816704	27.70006	1.212487	.5958872
#1	8.413126	52.28793	.1794967	.0058760	-1.21130	.1453483	5.086927
#2	8.336688	51.57236	.1802907	.0062426	-.69626	.1455364	5.125961
#3	8.471514	52.65635	.1791796	.0064672	-1.15683	.1485139	5.147061

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.484868	9.974494	.0361069	.0087592	5.078736	12.02594	.1054463
Stddev	.232588	.023658	.0051643	.0004610	.006902	.14358	.0008803
%RSD	2.741204	.2371885	14.30280	5.262533	.1359036	1.193960	.8348615
#1	8.350385	9.991460	.0351803	.0082341	5.076145	12.10541	.1055418
#2	8.350782	9.947468	.0314686	.0089462	5.073504	11.86019	.1045221
#3	8.753436	9.984554	.0416717	.0090973	5.086559	12.11221	.1062750

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5033-05A Acquired: 12/23/2024 19:07:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK97A Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.9618752	.1750105	.0868977
Stddev	.0268661	.0020659	.0058600
%RSD	2.793095	1.180439	6.743562
#1	.9567947	.1747968	.0926419
#2	.9379121	.1730598	.0809284
#3	.9909188	.1771750	.0871227

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2308.894	30103.05	2509.856	1980.811	1757.731
Stddev	5.743	103.22	25.323	7.782	5.316
%RSD	.2487434	.3428822	1.008953	.3928733	.3024293
#1	2311.752	30118.53	2496.758	1972.762	1759.149
#2	2312.648	30197.65	2539.046	1988.296	1762.195
#3	2302.283	29992.96	2493.765	1981.375	1751.850

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5034-03A Acquired: 12/23/2024 19:11:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB6A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1838558	-.032666	.6060495	.1540490	.0406267	74.14206	1.704705
Stddev	.0012436	.003468	.0019441	.0011131	.0037216	.30705	.010286
%RSD	.6764103	10.61704	.3207814	.7225730	9.160592	.4141382	.6033977
#1	.1825638	-.034840	.6040830	.1531999	.0387583	74.23768	1.708703
#2	.1850446	-.034491	.6079704	.1553092	.0382094	74.38993	1.712391
#3	.1839591	-.028666	.6060950	.1536381	.0449123	73.79858	1.693020

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0066429	.0115538	204.1658	.1109638	.1564067	.6593535	202.0175
Stddev	.0002392	.0000492	.5845	.0007841	.0011276	.0065484	.5731
%RSD	3.601280	.4262699	.2863095	.7065972	.7209506	.9931564	.2836934
#1	.0066810	.0115685	204.5520	.1104142	.1572614	.6663113	202.2023
#2	.0068608	.0115940	204.4520	.1106155	.1551287	.6584385	202.4754
#3	.0063869	.0114989	203.4933	.1118617	.1568300	.6533108	201.3748

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	29.92919	78.94244	.2030820	.0135347	-1.91960	.1618923	1.627571
Stddev	.11952	.15529	.0013346	.0011112	.29304	.0061667	.017763
%RSD	.3993442	.1967133	.6571611	8.210061	15.26589	3.809148	1.091379
#1	29.96398	78.81661	.2045341	.0137614	-1.90685	.1622191	1.627590
#2	30.02745	79.11599	.2019091	.0145151	-1.63314	.1555687	1.645325
#3	29.79613	78.89472	.2028029	.0123277	-2.21881	.1678891	1.609799

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.277154	6.513537	.0099884	.0076622	2.432752	12.25286	.0401213
Stddev	.076410	.012747	.0031553	.0004838	.007812	.06873	.0015387
%RSD	1.217265	.1957002	31.58994	6.313941	.3211311	.5609112	3.835153
#1	6.270524	6.527097	.0071105	.0082165	2.441427	12.19383	.0384695
#2	6.356663	6.501798	.0094922	.0074452	2.430558	12.32831	.0403803
#3	6.204276	6.511717	.0133624	.0073249	2.426271	12.23644	.0415140

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5034-03A Acquired: 12/23/2024 19:11:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB6A Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4549454	.0074127	.0772608
Stddev	.0029873	.0005324	.0014608
%RSD	.6566244	7.182479	1.890688
#1	.4534589	.0080010	.0757909
#2	.4529931	.0072733	.0772791
#3	.4583844	.0069639	.0787123

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2749.992	35758.17	2948.892	2357.128	1808.717
Stddev	7.279	188.94	22.657	7.069	8.853
%RSD	.2646864	.5283752	.7683130	.2998948	.4894617
#1	2750.969	35654.72	2923.268	2349.009	1809.329
#2	2756.733	35976.24	2957.135	2360.456	1817.248
#3	2742.274	35643.54	2966.273	2361.919	1799.574

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5037-06A Acquired: 12/23/2024 19:15:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKC0A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1252823	-.020386	4.418269	.1020320	.0295335	55.45297	2.095251
Stddev	.0084094	.003597	.009990	.0027026	.0025746	1.41237	.060228
%RSD	6.712392	17.64551	.2261121	2.648754	8.717683	2.546975	2.874479
#1	.1273158	-.017412	4.407847	.1002705	.0270333	55.34872	2.094686
#2	.1160426	-.024384	4.419196	.1006818	.0293907	54.09561	2.035308
#3	.1324886	-.019361	4.427763	.1051436	.0321766	56.91458	2.155759

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0056242	.0142737	374.2223	.1118203	.1130004	.2950655	129.0334
Stddev	.0001979	.0002469	9.6624	.0010529	.0005615	.0100832	3.2509
%RSD	3.518216	1.729621	2.582004	.9415708	.4969021	3.417285	2.519408
#1	.0056150	.0141107	374.0631	.1127394	.1128135	.3022836	128.7952
#2	.0054311	.0145578	364.6404	.1106716	.1125562	.2835447	125.9082
#3	.0058265	.0141527	383.9633	.1120500	.1136315	.2993683	132.3969

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.20659	38.53603	.1391310	.0071720	-1.40235	.1527004	1.903602
Stddev	.27430	1.08309	.0010347	.0003673	.39734	.0050885	.027609
%RSD	2.687527	2.810586	.7437178	5.121879	28.33369	3.332359	1.450333
#1	10.21545	38.51667	.1380778	.0073154	-1.14056	.1480442	1.912513
#2	9.92796	37.46275	.1401463	.0067545	-1.20694	.1581322	1.872639
#3	10.47636	39.62866	.1391688	.0074459	-1.85956	.1519248	1.925655

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.364597	9.813293	.0084765	.0067388	2.518190	8.746439	.1844302
Stddev	.134409	.021918	.0011758	.0008230	.007390	.211963	.0029389
%RSD	3.079523	.2233538	13.87134	12.21307	.2934677	2.423418	1.593513
#1	4.263148	9.793942	.0071624	.0072639	2.510948	8.743355	.1855168
#2	4.313602	9.808840	.0094290	.0071621	2.517902	8.536035	.1811027
#3	4.517041	9.837095	.0088382	.0057903	2.525720	8.959927	.1866711

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5037-06A Acquired: 12/23/2024 19:15:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKC0A Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8859397	.4542531	.0840731
Stddev	.0279075	.0126782	.0071449
%RSD	3.150041	2.791002	8.498493
#1	.8839879	.4545320	.0818349
#2	.8590594	.4414377	.0783152
#3	.9147719	.4667896	.0920692

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2273.219	29658.51	2532.568	1949.206	1700.323
Stddev	5.252	53.61	60.723	5.435	2.995
%RSD	.2310263	.1807515	2.397702	.2788382	.1761328
#1	2269.835	29692.83	2535.467	1943.481	1697.843
#2	2270.552	29596.73	2591.791	1949.841	1699.477
#3	2279.269	29685.96	2470.448	1954.295	1703.650

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5039-07A Acquired: 12/23/2024 19:19:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ7A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0622393	-.019953	.1773905	.0863554	.0220181	43.27141
Stddev	.0015841	.005277	.0029881	.0013766	.0044501	.26655
%RSD	2.545148	26.44683	1.684471	1.594129	20.21098	.6159966
#1	.0628530	-.021859	.1773963	.0857876	.0184615	43.49174
#2	.0634247	-.024012	.1803756	.0879251	.0205845	43.34736
#3	.0604402	-.013988	.1743995	.0853534	.0270082	42.97513

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6019376	.0045223	.0035789	F 876.2210	.0651266	.1080883
Stddev	.0036415	.0000768	.0001334	3.8437	.0009797	.0008233
%RSD	.6049689	1.698938	3.726408	.4386707	1.504276	.7616777
#1	.6052547	.0045952	.0034760	879.7493	.0659803	.1072348
#2	.6025170	.0045298	.0035311	876.7888	.0640569	.1088776
#3	.5980411	.0044421	.0037295	872.1250	.0653425	.1081526

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2560611	128.4156	7.423799	181.5877	.1148427	.0044392
Stddev	.0010083	.8552	.052851	.8980	.0011613	.0008549
%RSD	.3937760	.6659901	.7119114	.4945052	1.011203	19.25752
#1	.2571035	129.0564	7.463898	182.2305	.1145484	.0050317
#2	.2559888	128.7460	7.443590	181.9708	.1161228	.0048268
#3	.2550908	127.4445	7.363909	180.5617	.1138569	.0034592

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.987113	.1191154	.4434657	7.806863	7.690899	.0393707
Stddev	.495727	.0041885	.0187912	.110167	.012941	.0021507
%RSD	50.21986	3.516345	4.237351	1.411153	.1682575	5.462809
#1	-1.33982	.1144159	.4598961	7.927377	7.691336	.0387036
#2	-.42032	.1204754	.4229769	7.781878	7.677746	.0417760
#3	-1.20120	.1224549	.4475241	7.711335	7.703616	.0376326

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5039-07A Acquired: 12/23/2024 19:19:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ7A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031023	2.009900	12.71023	.0276434	1.433235	.7211283
Stddev	.0001479	.009733	.01322	.0017040	.023124	.0019898
%RSD	4.766122	.4842671	.1039942	6.164223	1.613389	.2759239
#1	.0029952	2.017789	12.72517	.0274053	1.459933	.7233110
#2	.0030408	1.999023	12.70544	.0294540	1.419602	.7206583
#3	.0032710	2.012888	12.70007	.0260710	1.420168	.7194156

Elem	Li6707
Units	ppm
Avg	.0801764
Stddev	.0020770
%RSD	2.590579
#1	.0801315
#2	.0822755
#3	.0781222

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2330.376	30730.04	2581.427	2007.936	1635.929
Stddev	2.998	56.28	20.098	7.836	2.514
%RSD	.1286376	.1831412	.7785613	.3902560	.1536818
#1	2327.061	30694.38	2560.098	2011.276	1634.952
#2	2332.895	30700.82	2584.171	1998.983	1638.785
#3	2331.173	30794.92	2600.013	2013.548	1634.049

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5042-01A Acquired: 12/23/2024 19:23:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB0A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1237090	-.039323	1.860006	.1213649	.0306554	58.06873	1.296948
Stddev	.0057471	.003564	.006099	.0018551	.0041260	.08422	.001216
%RSD	4.645684	9.063444	.3278884	1.528546	13.45919	.1450290	.0937610
#1	.1300419	-.037917	1.865234	.1220845	.0344231	58.06936	1.298352
#2	.1222603	-.043376	1.853306	.1227524	.0262463	58.15263	1.296265
#3	.1188249	-.036677	1.861478	.1192578	.0312968	57.98420	1.296227

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0064697	.0077133	112.7685	.0956309	.1090573	.4310138	147.5337
Stddev	.0001140	.0001252	.2618	.0006338	.0006626	.0073699	.4593
%RSD	1.762030	1.622708	.2321412	.6627895	.6075513	1.709897	.3113305
#1	.0065648	.0078578	112.6996	.0961370	.1095182	.4388540	147.7706
#2	.0063434	.0076428	113.0578	.0949200	.1082980	.4299596	147.8263
#3	.0065011	.0076394	112.5480	.0958358	.1093556	.4242277	147.0043

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.29344	29.64629	.1457972	.0097201	-.930578	.1510662	1.386141
Stddev	.05694	.07885	.0003400	.0002755	.583941	.0025562	.018196
%RSD	.5042174	.2659563	.2331979	2.834250	62.75030	1.692087	1.312729
#1	11.33094	29.69771	.1454313	.0099148	-.256303	.1540119	1.370233
#2	11.32147	29.68564	.1461034	.0098406	-1.26895	.1494326	1.405982
#3	11.22792	29.55551	.1458568	.0094049	-1.26648	.1497539	1.382209

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.255800	6.762122	.0087733	.0079743	2.016102	10.82792	.0999692
Stddev	.046265	.006857	.0011613	.0004565	.003632	.02450	.0010440
%RSD	.6376310	.1014005	13.23650	5.724540	.1801570	.2262428	1.044306
#1	7.303980	6.769104	.0074470	.0074639	2.017297	10.85416	.1003505
#2	7.211723	6.761864	.0096077	.0083437	2.018986	10.80566	.1007689
#3	7.251697	6.755398	.0092651	.0081151	2.012023	10.82395	.0987882

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5042-01A Acquired: 12/23/2024 19:23:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB0A Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6830946	.8118526	.0670102
Stddev	.0013460	.0033605	.0022921
%RSD	.1970443	.4139258	3.420461
#1	.6822351	.8082681	.0646137
#2	.6824029	.8123580	.0691811
#3	.6846458	.8149318	.0672357

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2450.339	32044.32	2597.224	2110.470	1826.655
Stddev	1.426	2.36	8.620	7.453	.752
%RSD	.0582085	.0073603	.3318814	.3531524	.0411446
#1	2450.738	32042.88	2587.272	2102.583	1826.427
#2	2448.756	32043.03	2602.103	2117.396	1827.494
#3	2451.524	32047.04	2602.298	2111.432	1826.044

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-01 Acquired: 12/23/2024 19:27:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM14 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1187166	-.031187	.2868859	.0604723	.0292297	56.89192
Stddev	.0048245	.002683	.0003106	.0025406	.0045540	.08509
%RSD	4.063834	8.602371	.1082537	4.201293	15.58022	.1495651
#1	.1223617	-.030012	.2867592	.0576959	.0255855	56.96118
#2	.1205424	-.029292	.2866587	.0610400	.0343350	56.91763
#3	.1132457	-.034257	.2872398	.0626811	.0277685	56.79693

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5945447	.0062381	.0049253	720.9335	.0879267	.1367082
Stddev	.0015282	.0001270	.0000473	1.2956	.0008250	.0002817
%RSD	.2570401	2.036481	.9599167	.1797080	.9382721	.2060339
#1	.5958391	.0063810	.0048709	721.7701	.0872978	.1369282
#2	.5949362	.0061379	.0049565	721.5892	.0888608	.1363908
#3	.5928589	.0061953	.0049485	719.4411	.0876215	.1368057

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5069373	164.6179	10.67744	132.9904	.1856282	.0063547
Stddev	.0045546	.2846	.02574	.3947	.0010979	.0005882
%RSD	.8984580	.1728921	.2411002	.2967516	.5914547	9.255977
#1	.5103749	164.6599	10.70486	133.4245	.1843721	.0069128
#2	.5017715	164.8792	10.67366	132.8934	.1864046	.0064108
#3	.5086656	164.3147	10.65380	132.6533	.1861080	.0057404

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.705134	.1380297	.4805664	8.979762	F 11.35886	.0247774
Stddev	.560184	.0014034	.0115206	.071890	.03675	.0019946
%RSD	79.44353	1.016726	2.397292	.8005773	.3235102	8.049940
#1	-1.35198	.1391654	.4840194	8.912860	11.32442	.0227201
#2	-.38127	.1364608	.4677142	8.970655	11.35461	.0267026
#3	-.38215	.1384629	.4899656	9.055772	11.39754	.0249095

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-01 Acquired: 12/23/2024 19:27:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM14 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034810	1.762356	4.556958	.0294942	.6518835	.5066223
Stddev	.0003507	.009711	.027936	.0011397	.0075282	.0010994
%RSD	10.07578	.5510335	.6130465	3.864008	1.154839	.2169999
#1	.0033370	1.751851	4.567964	.0282105	.6529687	.5071273
#2	.0032252	1.764210	4.577714	.0303870	.6588101	.5073784
#3	.0038809	1.771006	4.525194	.0298850	.6438715	.5053611

Elem	Li6707
Units	ppm
Avg	.1084141
Stddev	.0014626
%RSD	1.349051
#1	.1083091
#2	.1070069
#3	.1099264

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2503.256	32791.90	2758.664	2149.588	1663.336
Stddev	2.260	31.27	10.047	1.370	2.587
%RSD	.0902770	.0953677	.3642118	.0637262	.1555433
#1	2500.941	32782.95	2749.696	2151.136	1663.064
#2	2505.456	32766.09	2756.774	2149.095	1666.048
#3	2503.370	32826.68	2769.522	2148.532	1660.895

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-02 Acquired: 12/23/2024 19:31:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM15 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1013409	-.043997	2.083816	.0744636	.0329566	64.03967
Stddev	.0051796	.001466	.015170	.0029477	.0055137	.22563
%RSD	5.111091	3.332037	.7279732	3.958614	16.73031	.3523298
#1	.0954942	-.043167	2.066304	.0771951	.0272267	63.84568
#2	.1031733	-.045690	2.092243	.0748565	.0382252	64.28728
#3	.1053552	-.043135	2.092902	.0713391	.0334178	63.98605

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.039386	.0061273	.0074620	125.0461	.2927634	.1112299
Stddev	.002926	.0001572	.0000974	.2652	.0008100	.0011976
%RSD	.2814924	2.565015	1.305125	.2121102	.2766851	1.076657
#1	1.039646	.0063055	.0074474	124.9932	.2936637	.1098485
#2	1.042172	.0060086	.0073727	125.3338	.2920935	.1118663
#3	1.036338	.0060678	.0075659	124.8113	.2925330	.1119749

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4087683	148.9661	8.868040	34.62251	.2489860	.0080421
Stddev	.0060751	.6634	.031961	.06039	.0019574	.0002329
%RSD	1.486186	.4453394	.3604021	.1744287	.7861497	2.895980
#1	.4078443	148.6051	8.863455	34.62642	.2471387	.0080142
#2	.4032082	149.7317	8.902046	34.56026	.2487819	.0078244
#3	.4152524	148.5616	8.838620	34.68086	.2510375	.0082877

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.12196	.1620632	1.839903	7.231924	F 13.65551	.0226659
Stddev	.77151	.0003194	.013429	.102632	.12128	.0015942
%RSD	68.76475	.1971172	.7298609	1.419157	.8881735	7.033492
#1	-.72188	.1617073	1.831120	7.243415	13.51874	.0243592
#2	-.63266	.1621573	1.855361	7.328328	13.69781	.0224446
#3	-2.01133	.1623250	1.833228	7.124030	13.74997	.0211940

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-02 Acquired: 12/23/2024 19:31:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM15 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0136467	5.669478	4.063768	.0915150	.8222798	.0827174
Stddev	.0001629	.039196	.022312	.0014871	.0028007	.0004423
%RSD	1.193640	.6913537	.5490474	1.625018	.3406079	.5346880
#1	.0137834	5.624333	4.045115	.0899385	.8240999	.0827183
#2	.0134665	5.689256	4.088485	.0928927	.8190546	.0822747
#3	.0136902	5.694845	4.057705	.0917139	.8236848	.0831592

Elem	Li6707
Units	ppm
Avg	.0879730
Stddev	.0049078
%RSD	5.578766
#1	.0889071
#2	.0826652
#3	.0923466

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2481.841	32545.20	2642.359	2132.212	1846.097
Stddev	19.674	47.85	10.336	4.979	15.577
%RSD	.7927070	.1470213	.3911741	.2335046	.8437558
#1	2504.545	32506.76	2647.297	2133.691	1863.566
#2	2469.809	32598.79	2630.480	2136.284	1833.654
#3	2471.170	32530.04	2649.300	2126.661	1841.070

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-03 Acquired: 12/23/2024 19:34:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM16 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1123266	-.047954	2.310999	.0750970	.0344215	62.16879
Stddev	.0027289	.000581	.003170	.0035551	.0011898	1.57935
%RSD	2.429394	1.210872	.1371852	4.733955	3.456596	2.540428
#1	.1139324	-.048619	2.310171	.0710042	.0348754	60.35313
#2	.1091758	-.047552	2.308325	.0768691	.0353175	62.92872
#3	.1138716	-.047690	2.314502	.0774177	.0330715	63.22453

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9396039	.0060861	.0071737	74.35208	.1905902	.1002285
Stddev	.0249474	.0000449	.0001325	1.86551	.0005188	.0004897
%RSD	2.655094	.7379376	1.846402	2.509024	.2722167	.4885464
#1	.9109675	.0060424	.0073016	72.20061	.1911829	.1000848
#2	.9512128	.0060837	.0071824	75.33541	.1903694	.0998268
#3	.9566313	.0061321	.0070371	75.52021	.1902182	.1007739

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2966614	143.2558	7.864141	30.18935	.2051535	.0061205
Stddev	.0132943	3.5110	.194807	.76870	.0003003	.0003111
%RSD	4.481288	2.450827	2.477159	2.546262	.1463937	5.082526
#1	.2890467	139.2029	7.639197	29.30711	.2049112	.0063849
#2	.2889253	145.1958	7.976436	30.54599	.2054895	.0061989
#3	.3120121	145.3687	7.976789	30.71495	.2050597	.0057777

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.965513	.1645243	1.402517	5.250367	F 11.75500	.0187571
Stddev	.599441	.0051271	.034726	.280348	.01548	.0026034
%RSD	62.08529	3.116330	2.475988	5.339594	.1316752	13.87951
#1	-.430323	.1684428	1.377836	4.929740	11.74068	.0170985
#2	-1.61325	.1587217	1.387489	5.449331	11.75291	.0174152
#3	-.85296	.1664085	1.442226	5.372029	11.77142	.0217577

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-03 Acquired: 12/23/2024 19:34:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM16 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0101208	3.581614	3.929294	.0742985	.9045762	.0161415
Stddev	.0002382	.010671	.062766	.0016133	.0223964	.0005475
%RSD	2.353897	.2979270	1.597377	2.171317	2.475896	3.391753
#1	.0103956	3.570601	3.857538	.0729229	.8787371	.0155101
#2	.0099936	3.591906	3.956351	.0760741	.9184197	.0164289
#3	.0099731	3.582334	3.973993	.0738986	.9165718	.0164853

Elem	Li6707
Units	ppm
Avg	.0823227
Stddev	.0040639
%RSD	4.936530
#1	.0782105
#2	.0863365
#3	.0824210

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2507.488	32829.88	2677.875	2168.815	1864.846
Stddev	2.932	197.19	48.497	8.131	3.752
%RSD	.1169452	.6006312	1.811022	.3749044	.2011779
#1	2510.459	33049.93	2733.772	2178.014	1869.044
#2	2507.409	32770.49	2652.855	2165.844	1861.821
#3	2504.596	32669.21	2646.997	2162.587	1863.674

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-04 Acquired: 12/23/2024 19:38:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM17 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1575959	-.049369	2.367253	.0844578	.0398493	73.85069
Stddev	.0023837	.002591	.002585	.0033567	.0006972	.12687
%RSD	1.512554	5.248254	.1092041	3.974357	1.749642	.1717903
#1	.1566137	-.050499	2.370185	.0825533	.0406509	73.97038
#2	.1558602	-.046405	2.366276	.0824866	.0395130	73.71769
#3	.1603138	-.051203	2.365299	.0883336	.0393840	73.86400

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.162355	.0073404	.0086412	247.4225	.1399014	.1414685
Stddev	.005936	.0002973	.0000885	.8003	.0010188	.0005280
%RSD	.5107141	4.049829	1.023863	.3234650	.7282294	.3732375
#1	1.168688	.0075787	.0085498	248.3129	.1404464	.1420119
#2	1.156918	.0074353	.0086473	246.7631	.1405319	.1409574
#3	1.161458	.0070073	.0087264	247.1915	.1387260	.1414363

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4203225	182.4023	12.28544	59.15284	.2133999	.0084264
Stddev	.0071303	.6381	.04336	.49588	.0014440	.0011773
%RSD	1.696389	.3498473	.3529499	.8383078	.6766620	13.97208
#1	.4122895	183.1388	12.33430	59.64724	.2146560	.0075398
#2	.4259025	182.0533	12.25154	59.15581	.2137214	.0097622
#3	.4227755	182.0148	12.27047	58.65548	.2118222	.0079772

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.39306	.1875861	1.721195	7.372362	F 11.24994	.0066694
Stddev	.34351	.0064892	.008878	.117607	.00956	.0013245
%RSD	24.65885	3.459331	.5158162	1.595246	.0849673	19.85993
#1	-1.70515	.1937435	1.721793	7.468621	11.26020	.0080785
#2	-1.44903	.1808094	1.729758	7.407190	11.24834	.0054498
#3	-1.02500	.1882055	1.712032	7.241274	11.24129	.0064798

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-04 Acquired: 12/23/2024 19:38:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM17 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0085918	2.739953	4.337008	.0825996	.9366015	.0716909
Stddev	.0003827	.003768	.017934	.0017774	.0087330	.0003450
%RSD	4.454477	.1375319	.4135146	2.151823	.9324176	.4812450
#1	.0090092	2.740696	4.356650	.0844695	.9265323	.0714758
#2	.0082573	2.735868	4.321505	.0823972	.9421100	.0720888
#3	.0085089	2.743294	4.332870	.0809320	.9411621	.0715081

Elem	Li6707
Units	ppm
Avg	.1004701
Stddev	.0027112
%RSD	2.698511
#1	.0988802
#2	.0989295
#3	.1036006

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2558.404	33199.32	2740.137	2189.487	1767.830
Stddev	1.125	171.08	19.939	20.141	.244
%RSD	.0439802	.5153146	.7276675	.9199045	.0138058
#1	2559.479	33030.15	2718.738	2175.855	1767.875
#2	2557.234	33195.56	2743.479	2179.985	1767.566
#3	2558.498	33372.25	2758.194	2212.621	1768.048

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-05 Acquired: 12/23/2024 19:42:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM18 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1435189	-.059840	5.476937	.0942742	.0396500	69.29366
Stddev	.0043617	.003101	.005403	.0013843	.0030746	.33029
%RSD	3.039093	5.181448	.0986409	1.468414	7.754444	.4766459
#1	.1423201	-.056866	5.477522	.0958689	.0361035	68.91449
#2	.1398819	-.063053	5.471265	.0933824	.0412812	69.51877
#3	.1483546	-.059602	5.482023	.0935712	.0415654	69.44771

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.547300	.0072033	.0103378	92.28652	.1400667	.1263741
Stddev	.010651	.0000860	.0001046	.38059	.0008855	.0007103
%RSD	.4181372	1.193972	1.012177	.4124044	.6322094	.5620746
#1	2.535024	.0072673	.0103755	91.89558	.1391727	.1265948
#2	2.554082	.0072372	.0102195	92.65585	.1400840	.1255797
#3	2.552794	.0071055	.0104183	92.30812	.1409435	.1269479

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5716014	179.8817	11.55312	26.21185	.1866913	.0097051
Stddev	.0075656	.4506	.03667	.09634	.0009532	.0005988
%RSD	1.323585	.2504926	.3173767	.3675503	.5105594	6.169769
#1	.5633048	179.3769	11.51089	26.10525	.1876748	.0090860
#2	.5781190	180.2433	11.57690	26.29271	.1857717	.0102813
#3	.5733804	180.0249	11.57157	26.23758	.1866275	.0097479

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.32131	.1855647	2.618007	7.732454	F 14.39280	.0146318
Stddev	.36760	.0147818	.023874	.047830	.03986	.0004986
%RSD	27.82065	7.965870	.9119102	.6185625	.2769324	3.407760
#1	-1.67333	.1696141	2.604663	7.733763	14.35117	.0141924
#2	-.93990	.1882781	2.645570	7.683983	14.39662	.0145293
#3	-1.35071	.1988018	2.603788	7.779616	14.43062	.0151737

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-05 Acquired: 12/23/2024 19:42:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM18 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0089042	3.361219	4.420208	.1410216	.9001725	.0832608
Stddev	.0005248	.004265	.036069	.0007733	.0030719	.0009153
%RSD	5.894213	.1268829	.8160006	.5483690	.3412561	1.099361
#1	.0088142	3.358259	4.399813	.1412473	.8972075	.0830773
#2	.0084302	3.366107	4.398957	.1401605	.8999689	.0842541
#3	.0094682	3.359290	4.461853	.1416569	.9033412	.0824512

Elem	Li6707
Units	ppm
Avg	.0989337
Stddev	.0042833
%RSD	4.329465
#1	.0942043
#2	.1025519
#3	.1000448

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2590.713	33752.90	2763.642	2230.673	1848.732
Stddev	7.756	150.67	14.668	14.303	5.737
%RSD	.2993586	.4463899	.5307464	.6411764	.3103150
#1	2593.289	33920.45	2779.094	2242.666	1848.895
#2	2596.853	33628.55	2761.920	2214.844	1854.386
#3	2581.997	33709.69	2749.910	2234.510	1842.916

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-06 Acquired: 12/23/2024 19:46:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM19 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1402854	-.041293	1.266073	.0995985	.0394027	81.44420
Stddev	.0008763	.003712	.005236	.0024397	.0046748	.09054
%RSD	.6246291	8.988904	.4135444	2.449519	11.86402	.1111721
#1	.1402363	-.038633	1.267366	.0990421	.0437803	81.38347
#2	.1411853	-.039713	1.260312	.0974850	.0399491	81.54827
#3	.1394348	-.045534	1.270541	.1022683	.0344788	81.40088

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.329947	.0076168	.0086056	91.11246	.1437193	.1407518
Stddev	.002473	.0003619	.0001688	.02216	.0011996	.0003613
%RSD	.1859235	4.751733	1.961648	.0243218	.8346888	.2567039
#1	1.329782	.0072545	.0084513	91.09028	.1431457	.1410218
#2	1.327560	.0076175	.0085795	91.13460	.1450980	.1408922
#3	1.332497	.0079784	.0087859	91.11252	.1429140	.1403414

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3922624	190.1049	14.09901	30.25701	.2130339	.0092645
Stddev	.0025255	.1473	.01532	.09105	.0003819	.0012441
%RSD	.6438400	.0774661	.1086955	.3009174	.1792891	13.42843
#1	.3893905	190.2747	14.11517	30.32310	.2126240	.0090402
#2	.3941374	190.0264	14.08469	30.15315	.2130978	.0106055
#3	.3932591	190.0134	14.09718	30.29477	.2133798	.0081478

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.44070	.1889259	1.241457	7.200578	F 13.42049	.0085051
Stddev	.13489	.0086143	.006637	.066376	.03553	.0012576
%RSD	9.363007	4.559615	.5346448	.9218103	.2647411	14.78635
#1	-1.57343	.1966736	1.239728	7.269506	13.40843	.0099049
#2	-1.30375	.1904545	1.235855	7.195139	13.39256	.0081398
#3	-1.44493	.1796497	1.248787	7.137089	13.46048	.0074706

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-06 Acquired: 12/23/2024 19:46:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM19 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0093495	3.009026	5.385096	.0636575	.9551844	.0327203
Stddev	.0006042	.003330	.026925	.0010718	.0035307	.0007380
%RSD	6.462250	.1106642	.4999992	1.683673	.3696372	2.255444
#1	.0086564	3.010646	5.413268	.0637017	.9560990	.0326286
#2	.0096273	3.005196	5.382398	.0625643	.9581678	.0334998
#3	.0097649	3.011236	5.359620	.0647065	.9512864	.0320324

Elem	Li6707
Units	ppm
Avg	.1268124
Stddev	.0039351
%RSD	3.103090
#1	.1228492
#2	.1268691
#3	.1307188

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2680.202	35046.82	2836.746	2317.749	1844.592
Stddev	5.778	244.53	8.397	20.853	3.479
%RSD	.2155718	.6977180	.2960147	.8997282	.1886281
#1	2680.704	34774.49	2827.545	2294.744	1846.940
#2	2685.712	35247.57	2838.699	2335.410	1846.241
#3	2674.190	35118.40	2843.995	2323.093	1840.595

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-07 Acquired: 12/23/2024 19:50:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM20 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0778295	-.038719	.3335027	.0668320	.0352842	60.23274	.6489582
Stddev	.0039935	.002050	.0028352	.0021435	.0015162	.29218	.0025995
%RSD	5.131037	5.295518	.8501278	3.207297	4.297190	.4850796	.4005635
#1	.0766072	-.037882	.3346013	.0683018	.0341265	60.02681	.6481959
#2	.0822913	-.041056	.3302826	.0643725	.0370004	60.10428	.6468251
#3	.0745901	-.037220	.3356242	.0678217	.0347256	60.56714	.6518536

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0054712	.0044923	308.2603	.0937609	.1186668	.1904115	162.8763
Stddev	.0000997	.0000582	1.2481	.0006281	.0006070	.0067715	.6692
%RSD	1.822560	1.295466	.4048910	.6698603	.5115079	3.556218	.4108943
#1	.0054040	.0044514	307.6870	.0943149	.1179909	.1833789	162.4667
#2	.0055858	.0045590	307.4019	.0938891	.1191654	.1968874	162.5137
#3	.0054238	.0044667	309.6921	.0930786	.1188441	.1909682	163.6486

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.01426	57.83524	.1715075	.0055929	-1.17630	.1651764	.5239852
Stddev	.04629	.15562	.0004168	.0004421	.66916	.0076857	.0254792
%RSD	.4622454	.2690700	.2430264	7.904057	56.88660	4.653035	4.862573
#1	9.99282	57.86653	.1716212	.0055314	-1.81504	.1645799	.4946163
#2	9.98256	57.66635	.1718557	.0060625	-1.23345	.1731430	.5401830
#3	10.06738	57.97283	.1710457	.0051848	-.48040	.1578064	.5371563

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.628740	8.149578	-.003681	.0079553	.8735110	4.695047	.0317883
Stddev	.157295	.015246	.002858	.0002314	.0072724	.010242	.0001862
%RSD	3.398227	.1870776	77.64507	2.908764	.8325523	.2181482	.5856938
#1	4.609180	8.158316	-.005061	.0081859	.8653142	4.691922	.0318465
#2	4.482140	8.131974	-.005586	.0079568	.8791897	4.686731	.0315799
#3	4.794901	8.158444	-.000395	.0077231	.8760291	4.706487	.0319384

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-07 Acquired: 12/23/2024 19:50:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM20 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.9869674	.2129705	.0981133
Stddev	.0052317	.0020811	.0017545
%RSD	.5300738	.9771979	1.788252
#1	.9829602	.2108580	.0997360
#2	.9928860	.2130349	.0962515
#3	.9850560	.2150188	.0983523

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2433.204	31716.07	2621.541	2079.101	1800.353
Stddev	7.509	152.36	10.014	16.900	5.241
%RSD	.3086075	.4803854	.3820053	.8128490	.2910984
#1	2441.144	31641.06	2612.329	2078.345	1803.773
#2	2432.253	31891.39	2632.200	2096.366	1802.967
#3	2426.216	31615.76	2620.093	2062.592	1794.319

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-08 Acquired: 12/23/2024 19:54:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM21 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0669002	-.029795	.4000644	.0514632	.0310500	49.57013	.5232404
Stddev	.0044748	.006265	.0037921	.0026723	.0003306	.12347	.0005519
%RSD	6.688839	21.02613	.9478665	5.192633	1.064720	.2490874	.1054852
#1	.0703973	-.031636	.3998898	.0512720	.0309122	49.68039	.5229491
#2	.0684459	-.034932	.4039408	.0488917	.0314272	49.43672	.5228951
#3	.0618574	-.022816	.3963626	.0542260	.0308106	49.59328	.5238770

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052275	.0041402	539.9597	.0849910	.1101595	.2532437	149.5567
Stddev	.0000592	.0000483	1.5913	.0006321	.0002691	.0038730	.0778
%RSD	1.132029	1.165888	.2947012	.7437252	.2442707	1.529362	.0520262
#1	.0052618	.0040845	541.7791	.0852299	.1102320	.2577151	149.4856
#2	.0051592	.0041654	538.8278	.0842743	.1098616	.2510831	149.6398
#3	.0052615	.0041706	539.2721	.0854689	.1103849	.2509330	149.5447

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.743953	88.21216	.1490813	.0057247	-1.65659	.1514307	.5381470
Stddev	.007100	.07132	.0002706	.0006106	.39588	.0087735	.0153435
%RSD	.0916801	.0808533	.1815258	10.66564	23.89733	5.793720	2.851181
#1	7.751131	88.13597	.1488458	.0064177	-1.32594	.1613544	.5549161
#2	7.743794	88.22317	.1493769	.0052658	-2.09527	.1482334	.5347143
#3	7.736934	88.27733	.1490212	.0054906	-1.54855	.1447043	.5248105

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.493744	8.003295	.0113532	.0050525	.9008943	3.146957	.0279458
Stddev	.148654	.010509	.0025036	.0003868	.0083662	.016006	.0014173
%RSD	2.705886	.1313120	22.05213	7.656129	.9286537	.5086225	5.071613
#1	5.494580	8.007948	.0101210	.0051800	.9070524	3.165103	.0277800
#2	5.344673	8.010675	.0097045	.0046180	.8913692	3.134846	.0266187
#3	5.641978	7.991263	.0142341	.0053594	.9042612	3.140921	.0294387

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-08 Acquired: 12/23/2024 19:54:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM21 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7139518	.3920811	.0891769
Stddev	.0061025	.0014011	.0041413
%RSD	.8547528	.3573583	4.643916
#1	.7207732	.3936175	.0936607
#2	.7090106	.3908739	.0883742
#3	.7120716	.3917519	.0854956

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2387.325	31259.99	2613.600	2044.049	1715.959
Stddev	8.965	168.51	13.171	9.528	5.106
%RSD	.3755066	.5390576	.5039416	.4661237	.2975362
#1	2397.059	31277.89	2601.762	2044.970	1718.439
#2	2379.408	31418.84	2627.788	2053.083	1710.087
#3	2385.508	31083.25	2611.250	2034.094	1719.351

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-09 Acquired: 12/23/2024 19:58:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM22 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1824605	-.051796	2.490988	.0816015	.0369453	64.98475
Stddev	.0015598	.007525	.004684	.0036660	.0023227	.13469
%RSD	.8548859	14.52779	.1880563	4.492594	6.286821	.2072573
#1	.1824113	-.055695	2.489639	.0785676	.0342674	65.03408
#2	.1840443	-.043122	2.487125	.0805618	.0381554	64.83235
#3	.1809258	-.056571	2.496198	.0856751	.0384131	65.08781

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.638637	.0068990	.0103320	163.6202	.1848807	.1202882
Stddev	.003754	.0000782	.0000096	.5948	.0008498	.0000976
%RSD	.2290906	1.133641	.0932760	.3635349	.4596340	.0811092
#1	1.639386	.0068926	.0103354	163.5345	.1846464	.1202356
#2	1.634565	.0068242	.0103395	163.0729	.1858230	.1202282
#3	1.641960	.0069802	.0103211	164.2532	.1841726	.1204008

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3790831	170.9787	7.781434	55.95545	.2954767	.0069814
Stddev	.0125489	.2017	.009682	.14617	.0010719	.0003174
%RSD	3.310333	.1179712	.1244303	.2612279	.3627804	4.546632
#1	.3761433	171.0625	7.784609	55.94602	.2953107	.0072532
#2	.3682650	170.7485	7.770563	56.10612	.2944974	.0066326
#3	.3928409	171.1249	7.789131	55.81423	.2966219	.0070583

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.679136	.1768828	2.461482	8.575013	F 15.13471	.0369422
Stddev	.176201	.0020625	.040348	.133004	.04166	.0012294
%RSD	25.94486	1.166051	1.639180	1.551067	.2752728	3.327797
#1	-.517301	.1782659	2.449286	8.452363	15.13207	.0367815
#2	-.653265	.1745121	2.428639	8.716387	15.09443	.0358010
#3	-.866842	.1778703	2.506521	8.556289	15.17763	.0382439

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-09 Acquired: 12/23/2024 19:58:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM22 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0134149	5.688309	3.426039	.1201900	.9188533	.0641522
Stddev	.0005164	.015614	.018175	.0005475	.0011708	.0011370
%RSD	3.849713	.2744905	.5304859	.4555510	.1274174	1.772413
#1	.0133895	5.670280	3.405174	.1196094	.9192248	.0644514
#2	.0139436	5.697405	3.434523	.1206970	.9175418	.0628955
#3	.0129117	5.697241	3.438421	.1202638	.9197933	.0651098

Elem	Li6707
Units	ppm
Avg	.0928382
Stddev	.0027016
%RSD	2.910054
#1	.0913025
#2	.0959577
#3	.0912545

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2488.432	32431.33	2665.313	2145.129	1802.882
Stddev	5.150	46.97	3.285	4.673	7.198
%RSD	.2069745	.1448291	.1232454	.2178304	.3992416
#1	2493.503	32383.34	2666.730	2139.823	1809.555
#2	2488.587	32477.20	2661.557	2146.936	1803.837
#3	2483.205	32433.46	2667.651	2148.629	1795.254

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-10 Acquired: 12/23/2024 20:01:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM23 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3148312	-.089319	2.185079	.1193108	.0535377	63.76070
Stddev	.0033671	.004975	.004680	.0011711	.0014175	.09345
%RSD	1.069486	5.569421	.2141780	.9815438	2.647718	.1465639
#1	.3167949	-.092617	2.183809	.1206629	.0519014	63.85541
#2	.3109433	-.091744	2.181165	.1186182	.0543910	63.75812
#3	.3167555	-.083597	2.190263	.1186512	.0543208	63.66856

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.199761	.0087262	.0105114	180.4676	.1610887	.1191594
Stddev	.001951	.0002406	.0000355	.2884	.0006483	.0006112
%RSD	.1626199	2.757804	.3380272	.1597977	.4024270	.5129585
#1	1.201002	.0087946	.0104988	180.6754	.1604778	.1197796
#2	1.200768	.0089252	.0104839	180.5891	.1617688	.1185575
#3	1.197512	.0084587	.0105515	180.1384	.1610194	.1191411

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3176053	245.7791	7.973342	57.23358	.2766070	.0095305
Stddev	.0069682	.3134	.014403	.16041	.0008929	.0003467
%RSD	2.193985	.1274980	.1806411	.2802810	.3228061	3.637801
#1	.3102213	246.1244	7.988199	57.21829	.2756614	.0093809
#2	.3240656	245.6998	7.959441	57.40110	.2767237	.0092837
#3	.3185291	245.5129	7.972385	57.08136	.2774357	.0099268

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.30637	.2177344	1.814622	6.519849	F 14.00999	.0075628
Stddev	.91909	.0051287	.018528	.140883	.02151	.0038289
%RSD	70.35494	2.355496	1.021030	2.160830	.1535561	50.62832
#1	-.68178	.2120512	1.798619	6.580290	13.99699	.0115724
#2	-2.36173	.2191339	1.810328	6.358831	13.99816	.0039447
#3	-.87559	.2220181	1.834921	6.620427	14.03482	.0071712

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-10 Acquired: 12/23/2024 20:01:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM23 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0121085	3.786406	3.560373	.0980340	.9070800	-.006142
Stddev	.0005469	.008955	.032549	.0009215	.0061829	.000499
%RSD	4.516597	.2365126	.9142086	.9399590	.6816241	8.124159
#1	.0121360	3.787317	3.552567	.0975981	.9095514	-.006326
#2	.0115485	3.777029	3.596115	.0974114	.9116449	-.005577
#3	.0126412	3.794870	3.532436	.0990926	.9000437	-.006522

Elem	Li6707
Units	ppm
Avg	.0865496
Stddev	.0026090
%RSD	3.014477
#1	.0845887
#2	.0895107
#3	.0855494

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2475.776	32301.55	2656.513	2134.898	1800.325
Stddev	2.123	44.75	24.589	9.413	3.879
%RSD	.0857392	.1385355	.9255940	.4409264	.2154431
#1	2475.836	32273.98	2645.275	2128.370	1804.097
#2	2477.867	32353.18	2639.551	2145.689	1800.531
#3	2473.623	32277.49	2684.712	2130.636	1796.347

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-11 Acquired: 12/23/2024 20:05:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM24 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1949189	-.032761	1.408387	.0598040	.0298386	58.08730
Stddev	.0081413	.002565	.007142	.0051367	.0006426	.05476
%RSD	4.176782	7.830393	.5071274	8.589194	2.153681	.0942705
#1	.2042655	-.030609	1.404567	.0644976	.0305704	58.06306
#2	.1911184	-.035600	1.403967	.0605977	.0295790	58.04883
#3	.1893727	-.032075	1.416627	.0543166	.0293663	58.14999

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.023901	.0056738	.0072337	280.9454	.1177344	.1116416
Stddev	.003249	.0001161	.0000228	.4212	.0012419	.0007824
%RSD	.3173395	2.046589	.3152738	.1499229	1.054852	.7007963
#1	1.026948	.0057352	.0072416	281.0385	.1174575	.1124929
#2	1.024273	.0057464	.0072080	280.4855	.1166542	.1109540
#3	1.020482	.0055399	.0072516	281.3123	.1190914	.1114780

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2701267	142.9715	8.935746	63.03490	.2028670	.0052175
Stddev	.0059540	.2986	.024611	.15047	.0000598	.0008101
%RSD	2.204141	.2088280	.2754174	.2387170	.0294812	15.52585
#1	.2633190	143.1496	8.959456	62.99207	.2029359	.0045376
#2	.2726989	142.6268	8.910324	63.20215	.2028283	.0050011
#3	.2743621	143.1382	8.937458	62.91049	.2028368	.0061138

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.84005	.1675457	1.257114	5.774582	F 12.18627	.0222944
Stddev	.60689	.0042580	.010906	.106658	.02522	.0015154
%RSD	32.98206	2.541395	.8675106	1.847026	.2069834	6.797240
#1	-1.24680	.1708162	1.245055	5.652275	12.16905	.0218981
#2	-1.81365	.1627311	1.266284	5.848255	12.17454	.0239686
#3	-2.45971	.1690899	1.260004	5.823215	12.21523	.0210166

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-11 Acquired: 12/23/2024 20:05:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM24 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0077402	2.226879	3.640729	.0571434	.8009584	.1526464
Stddev	.0000332	.005079	.016548	.0012694	.0014067	.0004893
%RSD	.4291164	.2280709	.4545296	2.221453	.1756312	.3205630
#1	.0077138	2.221193	3.645314	.0569721	.8001585	.1525627
#2	.0077292	2.228480	3.622372	.0559684	.8001341	.1522043
#3	.0077775	2.230965	3.654501	.0584898	.8025827	.1531722

Elem	Li6707
Units	ppm
Avg	.0821919
Stddev	.0023575
%RSD	2.868258
#1	.0838980
#2	.0831760
#3	.0795018

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2433.685	31672.16	2639.742	2081.629	1782.717
Stddev	12.111	66.59	11.890	7.500	6.927
%RSD	.4976270	.2102518	.4504358	.3602779	.3885772
#1	2441.725	31668.65	2633.128	2086.739	1787.091
#2	2439.574	31740.44	2653.469	2085.129	1786.330
#3	2419.756	31607.40	2632.630	2073.019	1774.730

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-12 Acquired: 12/23/2024 20:09:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM25 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2438699	-.138792	2.134735	.1770303	.0752307	61.97240
Stddev	.0018764	.003226	.006756	.0027215	.0025772	.13384
%RSD	.7694314	2.324516	.3164590	1.537300	3.425776	.2159650
#1	.2426584	-.138820	2.138311	.1738891	.0745743	61.85508
#2	.2429199	-.142004	2.138950	.1786794	.0730451	62.11818
#3	.2460313	-.135552	2.126943	.1785224	.0780726	61.94394

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.459469	.0106693	.0107250	253.4911	.1204812	.1588242
Stddev	.002750	.0001037	.0002599	.1599	.0007843	.0003871
%RSD	.1884242	.9717892	2.423457	.0630641	.6510108	.2437372
#1	1.459389	.0105668	.0110224	253.3622	.1197335	.1592066
#2	1.462258	.0107741	.0105413	253.4412	.1212977	.1584325
#3	1.456759	.0106671	.0106113	253.6700	.1204122	.1588335

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4272444	364.1875	8.958600	42.79135	.2604701	.0144679
Stddev	.0045297	.4443	.003627	.23805	.0005559	.0007276
%RSD	1.060205	.1219857	.0404914	.5563101	.2134196	5.029151
#1	.4324529	363.7222	8.954420	42.53009	.2609647	.0136720
#2	.4242263	364.6071	8.960922	42.84799	.2605771	.0150990
#3	.4250540	364.2333	8.960458	42.99598	.2598685	.0146328

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.778041	.1878052	1.503856	8.560935	F 15.91465	-.002702
Stddev	.611239	.0071848	.012068	.154183	.01964	.008217
%RSD	78.56129	3.825695	.8024797	1.801004	.1233954	304.1493
#1	-.855673	.1960848	1.515944	8.674194	15.92429	-.000203
#2	-.131695	.1841208	1.503816	8.623267	15.92761	-.011878
#3	-1.34676	.1832099	1.491808	8.385345	15.89206	.003976

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-12 Acquired: 12/23/2024 20:09:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM25 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0074481	2.735181	3.804057	.1540318	.8959209	-.025843
Stddev	.0007238	.004264	.030683	.0008356	.0027582	.000949
%RSD	9.717528	.1558968	.8065985	.5424863	.3078673	3.672395
#1	.0071331	2.740011	3.791440	.1539475	.8928240	-.024842
#2	.0082760	2.731938	3.839038	.1532415	.8981135	-.025957
#3	.0069352	2.733594	3.781694	.1549063	.8968251	-.026730

Elem	Li6707
Units	ppm
Avg	.0952139
Stddev	.0014240
%RSD	1.495576
#1	.0952556
#2	.0937695
#3	.0966166

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2510.314	32800.96	2728.873	2157.661	1817.759
Stddev	7.279	105.52	7.391	14.022	4.748
%RSD	.2899779	.3217124	.2708624	.6498675	.2611903
#1	2502.324	32682.16	2721.698	2142.019	1812.285
#2	2516.569	32836.87	2728.457	2169.103	1820.743
#3	2512.049	32883.84	2736.464	2161.861	1820.251

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-13 Acquired: 12/23/2024 20:13:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM25D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2391468	-.142135	2.139417	.1785172	.0778098	62.12920
Stddev	.0001431	.004247	.003602	.0048403	.0017369	.14954
%RSD	.0598453	2.987666	.1683590	2.711407	2.232307	.2406892
#1	.2389871	-.144522	2.142175	.1739121	.0758207	62.28784
#2	.2391901	-.137232	2.135342	.1780768	.0790272	61.99084
#3	.2392633	-.144651	2.140734	.1835627	.0785814	62.10893

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.464246	.0108045	.0105825	254.4614	.1197563	.1594454
Stddev	.005144	.0002496	.0002378	.6359	.0006265	.0008569
%RSD	.3513290	2.310313	2.247294	.2499027	.5231423	.5374563
#1	1.469646	.0110695	.0103124	255.1623	.1191526	.1596587
#2	1.459402	.0105739	.0106747	253.9213	.1204034	.1585020
#3	1.463691	.0107701	.0107605	254.3007	.1197130	.1601756

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4309124	365.6136	8.994116	42.87307	.2610668	.0139522
Stddev	.0081316	.9230	.024552	.15365	.0013581	.0007769
%RSD	1.887058	.2524527	.2729741	.3583786	.5202235	5.568053
#1	.4395100	366.4715	9.021116	43.04875	.2603013	.0135568
#2	.4298822	364.6370	8.973130	42.76378	.2602642	.0134526
#3	.4233450	365.7322	8.988101	42.80668	.2626349	.0148472

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.584013	.1852818	1.513822	8.658205	F 15.92833	-.000566
Stddev	.404344	.0095468	.022821	.112261	.02568	.004655
%RSD	69.23548	5.152596	1.507537	1.296584	.1612272	821.9821
#1	-.652363	.1786870	1.487623	8.773658	15.90581	-.005013
#2	-.149850	.1809291	1.529376	8.651523	15.92290	-.000957
#3	-.949826	.1962292	1.524466	8.549435	15.95630	.004272

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-13 Acquired: 12/23/2024 20:13:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM25D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0074251	2.733947	3.840677	.1545902	.9021153	-.025591
Stddev	.0005710	.011168	.044617	.0014512	.0015233	.000656
%RSD	7.690347	.4084972	1.161692	.9387523	.1688561	2.561829
#1	.0070009	2.725257	3.891193	.1562659	.9012997	-.025756
#2	.0072000	2.730039	3.824179	.1537464	.9011736	-.024869
#3	.0080743	2.746543	3.806658	.1537582	.9038728	-.026149

Elem	Li6707
Units	ppm
Avg	.0939060
Stddev	.0010699
%RSD	1.139276
#1	.0944374
#2	.0926745
#3	.0946061

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2510.661	32794.34	2709.344	2146.462	1817.679
Stddev	7.202	169.69	27.610	5.022	5.167
%RSD	.2868503	.5174383	1.019059	.2339663	.2842432
#1	2513.168	32914.49	2680.921	2146.401	1819.159
#2	2516.274	32868.30	2736.061	2151.514	1821.944
#3	2502.541	32600.22	2711.051	2141.471	1811.934

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-12LX5 Acquired: 12/23/2024 20:17:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM25L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0496448	-.026337	.4511922	.0356067	.0195510	15.12315	.3512328
Stddev	.0043030	.003920	.0018985	.0021216	.0010790	.01418	.0001098
%RSD	8.667655	14.88411	.4207688	5.958302	5.518719	.0937778	.0312540
#1	.0534454	-.029564	.4515969	.0375156	.0189159	15.12412	.3512884
#2	.0449727	-.021974	.4491240	.0359819	.0207968	15.13683	.3513036
#3	.0505162	-.027472	.4528557	.0333226	.0189403	15.10851	.3511063

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027761	.0017951	61.88720	.0291479	.0476817	.1048205	89.74267
Stddev	.0001498	.0001740	.08026	.0007807	.0008792	.0064263	.09229
%RSD	5.394419	9.693509	.1296889	2.678586	1.843831	6.130734	.1028349
#1	.0029479	.0018588	61.85020	.0284263	.0484583	.1067122	89.84632
#2	.0026729	.0015983	61.83211	.0299767	.0467272	.0976608	89.66942
#3	.0027076	.0019284	61.97929	.0290409	.0478595	.1100886	89.71226

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.197447	10.55330	.0539108	.0024408	-1.91457	.0510399	.3756109
Stddev	.003332	.12561	.0004638	.0013105	.18149	.0107664	.0132496
%RSD	.1516502	1.190258	.8603315	53.68933	9.479387	21.09407	3.527481
#1	2.193689	10.50282	.0542176	.0036530	-2.11148	.0424822	.3663023
#2	2.200041	10.46079	.0533772	.0026192	-1.87823	.0631283	.3907801
#3	2.198612	10.69630	.0541376	.0010503	-1.75400	.0475091	.3697501

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.297155	3.321859	-.001877	.0029684	.5763271	1.101386	.0331605
Stddev	.205273	.008173	.002140	.0012441	.0055043	.008153	.0008714
%RSD	15.82485	.2460249	114.0640	41.90993	.9550582	.7402260	2.627666
#1	1.061561	3.325706	.000581	.0018463	.5824525	1.102659	.0322705
#2	1.392404	3.312473	-.002874	.0043062	.5717958	1.108828	.0331990
#3	1.437500	3.327398	-.003337	.0027528	.5747331	1.092672	.0340119

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-12LX5 Acquired: 12/23/2024 20:17:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM25L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2297916	-.007850	.0185809
Stddev	.0036755	.000176	.0029317
%RSD	1.599493	2.236031	15.77785
#1	.2332974	-.007915	.0196200
#2	.2259672	-.007651	.0208515
#3	.2301103	-.007984	.0152712

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2164.621	28203.38	2285.292	1856.793	1856.260
Stddev	2.380	51.52	11.124	10.402	6.113
%RSD	.1099578	.1826561	.4867718	.5602397	.3293061
#1	2163.294	28145.69	2277.712	1849.908	1850.972
#2	2167.369	28244.79	2280.101	1868.759	1862.953
#3	2163.200	28219.66	2298.063	1851.711	1854.854

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-14 Acquired: 12/23/2024 20:21:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM25S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3269615	-.057947	2.149611	.3158464	.2165847	64.81089
Stddev	.0023886	.004390	.002057	.0040958	.0021715	.15825
%RSD	.7305383	7.576643	.0956934	1.296768	1.002630	.2441776
#1	.3295797	-.053213	2.147504	.3148917	.2141599	64.88008
#2	.3249013	-.058744	2.151614	.3123122	.2172438	64.62983
#3	.3264034	-.061884	2.149714	.3203352	.2183503	64.92277

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.588662	.0885109	.1011164	251.8740	.4514550	1.064684
Stddev	.012097	.0008055	.0002114	.5956	.0022060	.003163
%RSD	.2636284	.9100541	.2090604	.2364770	.4886412	.2970876
#1	4.593383	.0893644	.1013470	252.4681	.4524966	1.063637
#2	4.574916	.0877641	.1009317	251.2769	.4529473	1.062178
#3	4.597686	.0884040	.1010706	251.8770	.4489210	1.068238

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8077551	364.0907	9.695644	42.63968	1.188220	.0711366
Stddev	.0012791	1.2357	.039981	.19106	.001009	.0009699
%RSD	.1583547	.3393946	.4123574	.4480866	.0849156	1.363415
#1	.8070940	364.7537	9.716193	42.67816	1.187860	.0703181
#2	.8092295	362.6650	9.649568	42.43231	1.187441	.0708839
#3	.8069418	364.8535	9.721172	42.80858	1.189360	.0722079

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.469368	.9888225	2.223937	8.654754	F 15.73303	.0025582
Stddev	.446713	.0131410	.007478	.209334	.04450	.0025584
%RSD	95.17348	1.328956	.3362669	2.418719	.2828686	100.0080
#1	-.506355	1.002896	2.228284	8.893338	15.73662	-.000126
#2	-.005310	.976873	2.228225	8.501860	15.68683	.002832
#3	-.896437	.986698	2.215302	8.569065	15.77562	.004969

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-14 Acquired: 12/23/2024 20:21:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM25S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0086761	2.718448	3.969410	.1516837	.8972862	-.029356
Stddev	.0001229	.004985	.043991	.0014065	.0049292	.001456
%RSD	1.416165	.1833903	1.108248	.9272880	.5493488	4.958584
#1	.0088094	2.715070	4.017035	.1522625	.9029691	-.029258
#2	.0085675	2.716099	3.930298	.1500800	.8941699	-.027952
#3	.0086514	2.724174	3.960895	.1527084	.8947196	-.030858

Elem	Li6707
Units	ppm
Avg	.0915415
Stddev	.0019358
%RSD	2.114667
#1	.0907912
#2	.0937401
#3	.0900931

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2517.800	32732.71	2721.678	2151.076	1831.035
Stddev	4.233	95.38	23.898	7.680	1.898
%RSD	.1681280	.2914014	.8780495	.3570366	.1036562
#1	2516.485	32665.93	2695.209	2149.463	1830.826
#2	2522.535	32690.25	2741.668	2144.331	1833.029
#3	2514.381	32841.95	2728.159	2159.435	1829.250

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCV005 Acquired: 12/23/2024 20:28:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV005 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.159780	4.910362	25.02693	5.045739	5.022901	408.9924	10.33560
Stddev	.006851	.038895	.21554	.036827	.041304	.5135	.01496
%RSD	.1327839	.7920980	.8612131	.7298545	.8223172	.1255641	.1447449
#1	5.167584	4.880242	24.91082	5.027707	4.999603	408.4201	10.34026
#2	5.154751	4.896572	24.89434	5.021403	4.998510	409.1439	10.31886
#3	5.157006	4.954274	25.27563	5.088106	5.070591	409.4131	10.34768

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5070947	2.511321	415.8605	15.65008	2.520521	15.39919	420.0130
Stddev	.0018793	.020183	1.2943	.03685	.017490	.05002	.7516
%RSD	.3705958	.8036916	.3112284	.2354588	.6938881	.3248275	.1789490
#1	.5073233	2.500588	414.8023	15.64952	2.510491	15.35041	419.8605
#2	.5088492	2.498771	415.4757	15.68721	2.510356	15.39678	419.3494
#3	.5051116	2.534603	417.3036	15.61352	2.540716	15.45037	420.8292

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.37363	414.1956	2.536188	1.306160	409.7135	2.586720	15.73834
Stddev	.02595	.5349	.017556	.002124	.1348	.014676	.12865
%RSD	.1688052	.1291460	.6922389	.1626516	.0329078	.5673455	.8174142
#1	15.34418	414.0206	2.527619	1.304072	409.7236	2.571536	15.59311
#2	15.38356	413.7700	2.524561	1.308319	409.8430	2.600828	15.78394
#3	15.39315	414.7961	2.556383	1.306088	409.5739	2.587794	15.83798

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	153.4859	5.049762	4.884149	5.001478	5.039088	4.767681	5.071718
Stddev	.3297	.048227	.029373	.040881	.031216	.037282	.039475
%RSD	.2147975	.9550326	.6014006	.8173726	.6194728	.7819753	.7783456
#1	153.2418	5.027753	4.891187	4.981844	5.024343	4.775210	5.049826
#2	153.3549	5.016466	4.909363	4.974118	5.017977	4.800623	5.048040
#3	153.8609	5.105067	4.851896	5.048471	5.074945	4.727209	5.117289

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCV005 Acquired: 12/23/2024 20:28:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV005 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	5.097511	4.847694	5.198050
Stddev	.023556	.019809	.010306
%RSD	.4621034	.4086212	.1982600
#1	5.071032	4.827988	5.188019
#2	5.105365	4.847488	5.197522
#3	5.116137	4.867604	5.208610

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1777.644	24356.86	2123.607	1523.036	1557.102
Stddev	13.594	45.05	10.943	9.696	12.096
%RSD	.7647111	.1849723	.5153069	.6366335	.7768461
#1	1788.089	24407.45	2124.945	1531.189	1565.990
#2	1782.569	24321.07	2112.057	1512.314	1561.991
#3	1762.274	24342.07	2133.820	1525.604	1543.327

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCB005 Acquired: 12/23/2024 20:32:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB005 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039497	-.003589	.0082335	.0047486	-.002280	.0330186	-.002340
Stddev	.0027806	.003269	.0027479	.0025285	.001004	.0165502	.001890
%RSD	70.39965	91.08840	33.37485	53.24735	44.02396	50.12398	80.77258
#1	.0065812	-.003853	.0085231	.0026821	-.002281	.0172784	-.002474
#2	.0010408	-.000196	.0108251	.0039956	-.001276	.0502746	-.000387
#3	.0042272	-.006718	.0053522	.0075681	-.003284	.0315029	-.004160

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000094	.0000936	.0302547	.0009346	-.000186	-.001487	.0670910
Stddev	.000098	.0000827	.0230463	.0005485	.000271	.004799	.0257161
%RSD	103.8601	88.28202	76.17425	58.68507	145.5486	322.6731	38.33013
#1	-.000158	.0000572	.0421500	.0015250	-.000162	-.000739	.0391180
#2	.000018	.0000355	.0449227	.0008379	-.000469	-.006616	.0897058
#3	-.000143	.0001882	.0036913	.0004409	.000072	.002894	.0724492

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0036694	.0821107	.0010255	-.000026	-1.96757	-.001392	.0039100
Stddev	.0008552	.0800158	.0005849	.001179	.48332	.010180	.0109061
%RSD	23.30597	97.44873	57.03128	4463.192	24.56407	731.1427	278.9282
#1	.0045716	.0920240	.0011259	-.000678	-1.42101	.010260	.0147754
#2	.0035661	-.002400	.0015537	.001334	-2.33855	-.005876	.0039911
#3	.0028706	.156708	.0003970	-.000735	-2.14316	-.008560	-.007036

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.669626	.0012740	.0122110	.0005538	-.001584	-.081457	.0003149
Stddev	.148945	.0012896	.0015007	.0006461	.002455	.000568	.0017873
%RSD	22.24304	101.2270	12.28982	116.6573	154.9553	.6974268	567.6218
#1	-.541627	.0012477	.0129863	.0010675	-.003998	-.082064	.0017216
#2	-.634142	-.000002	.0131656	-.000172	-.001665	-.081366	.0009192
#3	-.833108	.002577	.0104812	.000766	.000910	-.080939	-.001696

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCB005 Acquired: 12/23/2024 20:32:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB005 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0012721	.0001879	.0137859
Stddev	.0047590	.0002614	.0059651
%RSD	374.1044	139.1386	43.26938
#1	-.004174	.0004428	.0084456
#2	.004630	-.000080	.0126887
#3	.003361	.000200	.0202234

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2073.909	27014.97	2179.339	1778.862	1878.629
Stddev	5.920	123.70	28.636	3.987	3.458
%RSD	.2854391	.4579109	1.313975	.2241121	.1840700
#1	2074.517	26912.82	2164.663	1775.370	1879.054
#2	2067.708	26979.58	2161.017	1778.011	1874.979
#3	2079.501	27152.51	2212.338	1783.206	1881.855

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-15 Acquired: 12/23/2024 20:36:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM26 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2048883	-.062324	2.460097	.0997317	.0393547	71.30043
Stddev	.0032648	.005527	.006287	.0031965	.0007440	.12335
%RSD	1.593443	8.868113	.2555521	3.205069	1.890443	.1729984
#1	.2086081	-.062038	2.453031	.1006231	.0400422	71.43977
#2	.2024985	-.067988	2.462188	.0961841	.0385648	71.25635
#3	.2035583	-.056945	2.465072	.1023878	.0394570	71.20519

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.502669	.0079389	.0086873	72.00514	.1423512	.1220816
Stddev	.002811	.0001384	.0001071	.18038	.0004333	.0007760
%RSD	.1870657	1.743348	1.232344	.2505044	.3044239	.6356589
#1	1.505364	.0078295	.0086032	72.12587	.1427683	.1212215
#2	1.502887	.0078928	.0086509	72.09176	.1419033	.1227292
#3	1.499755	.0080945	.0088078	71.79780	.1423819	.1222941

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4926339	185.1098	10.02280	24.20713	.1733809	.0090855
Stddev	.0102359	.0164	.01166	.12265	.0001266	.0001703
%RSD	2.077797	.0088839	.1163021	.5066614	.0730492	1.874613
#1	.5041826	185.0949	10.03158	24.19713	.1733746	.0092673
#2	.4890380	185.1275	10.02724	24.33448	.1732575	.0090597
#3	.4846811	185.1071	10.00957	24.08980	.1735106	.0089296

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.760879	.1957813	1.462413	8.259980	F 13.43411	.0313554
Stddev	.363635	.0013509	.023882	.100543	.05579	.0022009
%RSD	47.79147	.6900131	1.633077	1.217225	.4152687	7.019307
#1	-.416164	.1947040	1.452268	8.374259	13.37197	.0288398
#2	-.725609	.1972969	1.489693	8.185121	13.45048	.0329262
#3	-1.14086	.1953429	1.445278	8.220559	13.47989	.0323002

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-15 Acquired: 12/23/2024 20:36:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM26 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0092220	3.604262	4.231801	.1522254	.7330315	.0410236
Stddev	.0005982	.021434	.042487	.0027713	.0049882	.0007062
%RSD	6.486438	.5946765	1.003992	1.820547	.6804833	1.721456
#1	.0096393	3.579842	4.280846	.1494239	.7281528	.0409917
#2	.0085367	3.619957	4.208311	.1549655	.7381223	.0417452
#3	.0094899	3.612986	4.206245	.1522867	.7328194	.0403338

Elem	Li6707
Units	ppm
Avg	.1113775
Stddev	.0023341
%RSD	2.095661
#1	.1127593
#2	.1086826
#3	.1126906

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2648.554	34520.52	2809.192	2283.169	1859.976
Stddev	3.146	180.69	4.406	24.592	3.248
%RSD	.1187832	.5234182	.1568463	1.077120	.1746363
#1	2648.176	34729.01	2812.737	2311.396	1863.710
#2	2651.873	34423.03	2810.579	2266.369	1858.418
#3	2645.615	34409.52	2804.259	2271.743	1857.801

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-16 Acquired: 12/23/2024 20:40:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM27 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1864000	-.052392	1.039742	.0998620	.0392354	71.84897
Stddev	.0055181	.005266	.005734	.0023636	.0021053	.16133
%RSD	2.960334	10.05172	.5515215	2.366851	5.365804	.2245429
#1	.1924716	-.058333	1.043220	.1010564	.0413660	71.82073
#2	.1816908	-.048299	1.033123	.0971395	.0391839	71.70363
#3	.1850375	-.050543	1.042882	.1013899	.0371564	72.02256

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.347285	.0073658	.0080522	101.3551	.1168182	.1438141
Stddev	.003896	.0000930	.0000424	.1204	.0004247	.0014066
%RSD	.2891686	1.263288	.5266797	.1187930	.3635371	.9780582
#1	1.349914	.0074446	.0081010	101.2287	.1172450	.1434266
#2	1.342809	.0073897	.0080243	101.3681	.1168141	.1426419
#3	1.349132	.0072632	.0080313	101.4684	.1163956	.1453739

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3495492	192.5552	13.58552	24.85739	.1803699	.0079021
Stddev	.0018397	.6448	.03511	.15469	.0009563	.0007201
%RSD	.5263033	.3348395	.2584554	.6223062	.5302064	9.112809
#1	.3493848	192.8842	13.60129	24.94635	.1793753	.0071530
#2	.3514656	191.8124	13.54529	24.67877	.1812827	.0079639
#3	.3477973	192.9691	13.60999	24.94704	.1804516	.0085892

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.769520	.1819055	.9309358	5.986904	F 14.45043	.0156371
Stddev	.529741	.0062128	.0209728	.102458	.04217	.0034491
%RSD	68.84042	3.415424	2.252876	1.711362	.2918512	22.05706
#1	-1.35770	.1855225	.9108334	5.925109	14.42550	.0177586
#2	-.32996	.1854623	.9292917	5.930432	14.42668	.0116574
#3	-.62090	.1747316	.9526823	6.105172	14.49913	.0174954

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-16 Acquired: 12/23/2024 20:40:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM27 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0115131	2.705687	3.468590	.0888089	.5564339	.0092633
Stddev	.0002334	.015458	.010464	.0017124	.0022280	.0011951
%RSD	2.026990	.5713211	.3016823	1.928218	.4004036	12.90100
#1	.0112634	2.700896	3.480449	.0884469	.5552203	.0083300
#2	.0117256	2.693191	3.464665	.0906734	.5550763	.0106102
#3	.0115503	2.722973	3.460656	.0873064	.5590053	.0088497

Elem	Li6707
Units	ppm
Avg	.1013985
Stddev	.0046476
%RSD	4.583512
#1	.1050200
#2	.1030176
#3	.0961579

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2707.410	35308.43	2896.814	2338.215	1858.681
Stddev	9.062	139.85	6.817	13.825	7.303
%RSD	.3347060	.3960731	.2353403	.5912583	.3928968
#1	2705.229	35447.82	2893.019	2346.110	1859.920
#2	2717.363	35309.35	2892.737	2346.284	1865.284
#3	2699.638	35168.14	2904.684	2322.252	1850.837

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-17 Acquired: 12/23/2024 20:44:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM28 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1542921	-.058984	.5335587	.0962515	.0372682	65.25316	1.029088
Stddev	.0093834	.008827	.0021636	.0043768	.0023503	.36617	.006023
%RSD	6.081607	14.96488	.4054944	4.547261	6.306327	.5611545	.5852422
#1	.1486850	-.052745	.5314257	.0946418	.0382191	64.85635	1.022139
#2	.1490665	-.055123	.5357515	.0929074	.0389940	65.32514	1.032342
#3	.1651250	-.069083	.5334988	.1012052	.0345915	65.57800	1.032784

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0064110	.0067423	62.49883	.1037587	.1399069	.3056256	180.8123
Stddev	.0001142	.0000701	.17544	.0007375	.0008057	.0034462	.8521
%RSD	1.781856	1.039128	.2807033	.7107881	.5758786	1.127603	.4712857
#1	.0064943	.0066775	62.29719	.1043607	.1391450	.3028418	179.8937
#2	.0062807	.0067326	62.61651	.1039793	.1398255	.3094801	180.9662
#3	.0064579	.0068167	62.58278	.1029361	.1407502	.3045550	181.5770

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.66430	31.24566	.1964614	.0081997	-1.24779	.1581334	.7381201
Stddev	.10280	.22209	.0009407	.0006303	.16386	.0074455	.0199211
%RSD	.7010159	.7107859	.4788247	7.687312	13.13207	4.708371	2.698900
#1	14.54732	30.98967	.1964212	.0084535	-1.06397	.1631579	.7369278
#2	14.70537	31.38686	.1974216	.0074821	-1.37854	.1495795	.7586105
#3	14.74022	31.36046	.1955415	.0086637	-1.30086	.1616628	.7188218

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.948636	9.011160	.0195006	.0065641	1.473390	2.152415	.0363332
Stddev	.095430	.012424	.0019097	.0004670	.006360	.017554	.0011014
%RSD	1.373365	.1378763	9.792953	7.114500	.4316314	.8155342	3.031296
#1	6.891275	9.017656	.0198010	.0066205	1.469222	2.134008	.0365320
#2	6.895834	8.996834	.0212423	.0060715	1.470237	2.154269	.0351460
#3	7.058797	9.018989	.0174586	.0070004	1.480710	2.168968	.0373216

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-17 Acquired: 12/23/2024 20:44:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM28 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5542776	-.041229	.0980232
Stddev	.0008108	.001115	.0020044
%RSD	.1462823	2.704992	2.044821
#1	.5549994	-.039942	.0996874
#2	.5544329	-.041888	.0985840
#3	.5534003	-.041858	.0957981

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2775.834	36118.67	2954.631	2379.928	1882.307
Stddev	9.069	72.34	27.429	5.392	5.829
%RSD	.3267263	.2002742	.9283296	.2265419	.3096619
#1	2768.170	36176.76	2978.927	2383.886	1876.303
#2	2785.847	36141.59	2960.081	2382.112	1887.943
#3	2773.486	36037.65	2924.887	2373.787	1882.675

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-18 Acquired: 12/23/2024 20:48:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM36 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1383129	-.036495	3.510645	.0663527	.0323310	52.03709
Stddev	.0045387	.005386	.010518	.0038942	.0029899	.19502
%RSD	3.281461	14.75817	.2995983	5.868968	9.247607	.3747743
#1	.1435199	-.040965	3.502630	.0619477	.0307239	51.92761
#2	.1362238	-.030515	3.506751	.0677728	.0357807	51.92140
#3	.1351949	-.038005	3.522555	.0693375	.0304885	52.26225

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.609350	.0058969	.0094204	224.0358	.1554634	.1174513
Stddev	.006142	.0000689	.0001268	.9082	.0004231	.0007517
%RSD	.3816195	1.168116	1.345802	.4053732	.2721593	.6400039
#1	1.608823	.0059160	.0093785	223.4352	.1553133	.1179323
#2	1.603488	.0059542	.0093199	223.5917	.1559411	.1178365
#3	1.615738	.0058204	.0095628	225.0806	.1551358	.1165851

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5172281	154.3739	11.12129	52.35611	.1724526	.0089972
Stddev	.0049101	.7588	.03785	.30415	.0008062	.0008617
%RSD	.9493189	.4915251	.3403263	.5809325	.4675056	9.577819
#1	.5137366	154.0853	11.09706	52.35044	.1719683	.0083288
#2	.5151051	153.8019	11.10189	52.05483	.1733833	.0086931
#3	.5228425	155.2347	11.16490	52.66306	.1720063	.0099698

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.25333	.1484270	4.174698	6.483472	F 14.51619	.0279352
Stddev	.15242	.0038304	.038714	.087841	.01087	.0025275
%RSD	12.16114	2.580668	.9273444	1.354848	.0749049	9.047875
#1	-1.20124	.1451781	4.195527	6.579312	14.51036	.0305714
#2	-1.13378	.1474522	4.198539	6.406792	14.50948	.0277019
#3	-1.42496	.1526506	4.130030	6.464314	14.52874	.0255325

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-18 Acquired: 12/23/2024 20:48:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM36 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0112500	3.706399	3.539988	.2562771	.7423775	.1984418
Stddev	.0004538	.007881	.015798	.0009348	.0021905	.0013371
%RSD	4.033779	.2126429	.4462788	.3647628	.2950636	.6738061
#1	.0117099	3.703093	3.544207	.2572613	.7398508	.1978598
#2	.0112375	3.700710	3.522509	.2554011	.7435418	.1999712
#3	.0108026	3.715395	3.553249	.2561690	.7437400	.1974943

Elem	Li6707
Units	ppm
Avg	.0697644
Stddev	.0024825
%RSD	3.558358
#1	.0707878
#2	.0669338
#3	.0715716

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2449.171	32003.52	2654.407	2101.054	1799.007
Stddev	3.579	99.86	2.381	8.612	2.740
%RSD	.1461244	.3120314	.0896954	.4099119	.1523188
#1	2445.205	31972.86	2651.673	2099.796	1795.910
#2	2450.145	31922.59	2656.018	2093.140	1801.117
#3	2452.161	32115.12	2655.531	2110.227	1799.995

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-19 Acquired: 12/23/2024 20:51:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM37 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0729141	-.029607	.3975476	.0580530	.0297061	58.98646	.7023043
Stddev	.0010626	.006880	.0021756	.0006587	.0022453	.29472	.0029055
%RSD	1.457284	23.23944	.5472556	1.134657	7.558411	.4996350	.4137121
#1	.0731999	-.023223	.3970841	.0587079	.0316631	58.66564	.6998783
#2	.0717378	-.036894	.3956411	.0580607	.0272549	59.04857	.7015104
#3	.0738045	-.028703	.3999176	.0573905	.0302003	59.24518	.7055242

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0054433	.0043266	289.8036	.0910991	.1157392	.1999298	147.3483
Stddev	.0000920	.0001098	.9223	.0004997	.0002372	.0058638	.4876
%RSD	1.690127	2.538199	.3182558	.5485123	.2049720	2.932914	.3309043
#1	.0055272	.0043805	288.9581	.0912521	.1155384	.2041332	146.7860
#2	.0054578	.0042002	289.6655	.0905407	.1156783	.2024250	147.6041
#3	.0053449	.0043990	290.7872	.0915043	.1160010	.1932311	147.6548

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.855468	58.19552	.1671924	.0047929	-.915800	.1356714	.6141055
Stddev	.017550	.22424	.0003556	.0005616	.585289	.0030809	.0036463
%RSD	.1780695	.3853169	.2126807	11.71728	63.91008	2.270847	.5937628
#1	9.839876	57.97787	.1670401	.0050114	-.700544	.1391171	.6181419
#2	9.852056	58.18289	.1675987	.0041548	-.468621	.1331823	.6131246
#3	9.874474	58.42581	.1669383	.0052123	-1.57824	.1347147	.6110499

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.043586	8.721177	-.004476	.0069666	1.078071	3.153762	.0208404
Stddev	.211837	.009623	.002436	.0008987	.005204	.016148	.0019353
%RSD	6.960106	.1103395	54.41172	12.90003	.4827063	.5120320	9.286256
#1	2.903361	8.729188	-.002018	.0059302	1.082116	3.137836	.0228709
#2	3.287272	8.710503	-.006889	.0074384	1.079897	3.153327	.0190170
#3	2.940126	8.723839	-.004522	.0075310	1.072200	3.170123	.0206332

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-19 Acquired: 12/23/2024 20:51:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM37 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5011712	.2072247	.0929600
Stddev	.0013497	.0013959	.0038742
%RSD	.2693046	.6736277	4.167587
#1	.4999256	.2056427	.0933738
#2	.5026051	.2082833	.0966107
#3	.5009828	.2077481	.0888956

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2436.084	31856.16	2630.135	2095.627	1814.032
Stddev	4.549	18.70	11.166	5.435	3.355
%RSD	.1867299	.0587147	.4245416	.2593635	.1849265
#1	2440.673	31853.10	2640.627	2090.035	1817.885
#2	2436.001	31839.17	2631.380	2095.956	1812.449
#3	2431.577	31876.20	2618.399	2100.891	1811.761

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: PB165739BL Acquired: 12/23/2024 20:55:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS739 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002557	-.001576	-.000326	.0045462	.0002331	.0431321	-.002698
Stddev	.003570	.001162	.000179	.0031391	.0017762	.0181948	.000694
%RSD	139.5998	73.69160	55.01721	69.04900	762.0680	42.18389	25.71647
#1	.000434	-.000919	-.000445	.0036638	-.001782	.0248211	-.002294
#2	-.001596	-.002917	-.000120	.0080321	.001570	.0612084	-.003499
#3	-.006510	-.000892	-.000413	.0019427	.000912	.0433669	-.002300

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000067	-.000194	.0800225	-.000857	-.000172	-.000401	.0350763
Stddev	.0000873	.000022	.0284752	.000361	.000305	.003101	.0029877
%RSD	1303.086	11.54769	35.58401	42.08867	176.9937	773.9451	8.517618
#1	-.000094	-.000180	.0867199	-.001273	-.000442	.002980	.0316286
#2	.000064	-.000182	.1045521	-.000626	-.000233	-.003112	.0369050
#3	.000049	-.000220	.0487956	-.000673	.000158	-.001069	.0366954

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050832	.0774863	.0008641	-.000885	-1.15865	-.001077	.0089670
Stddev	.0016408	.0204256	.0003850	.000324	.32254	.004003	.0037326
%RSD	32.27849	26.36025	44.54944	36.57353	27.83750	371.5988	41.62626
#1	.0069582	.0540113	.0011661	-.000720	-1.17374	-.005500	.0053086
#2	.0043809	.0872499	.0009955	-.001258	-1.47337	.002299	.0088227
#3	.0039104	.0911978	.0004306	-.000677	-.82883	-.000032	.0127697

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.851404	.0004055	-.007795	.0005029	.0008046	-.082424	-.001221
Stddev	.204673	.0020702	.001863	.0002623	.0031906	.000513	.000531
%RSD	24.03951	510.5792	23.90359	52.15456	396.5244	.6220689	43.49303
#1	-.661333	-.001826	-.005644	.0005931	.0044852	-.082255	-.001514
#2	-.824799	.002263	-.008843	.0007083	-.000896	-.083000	-.000608
#3	-1.06808	.000780	-.008899	.0002075	-.001175	-.082017	-.001542

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: PB165739BL Acquired: 12/23/2024 20:55:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS739 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0015622	.0001640	-.004457
Stddev	.0019018	.0000406	.002827
%RSD	121.7356	24.74752	63.43212
#1	.0035186	.0001559	-.007719
#2	.0014478	.0001281	-.002934
#3	-.000280	.0002080	-.002718

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2047.438	26791.74	2160.473	1766.198	1859.699
Stddev	4.517	176.81	23.145	11.685	6.444
%RSD	.2206272	.6599520	1.071295	.6615773	.3465063
#1	2042.323	26640.41	2182.520	1765.023	1852.370
#2	2050.882	26748.71	2162.533	1755.145	1864.475
#3	2049.109	26986.10	2136.367	1778.426	1862.253

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: PB165739BS Acquired: 12/23/2024 20:59:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS739 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0202038	.0489614	.0200847	.0627576	.1013653	.4375325
Stddev	.0027686	.0013957	.0012913	.0007325	.0038790	.0244860
%RSD	13.70339	2.850643	6.429500	1.167196	3.826798	5.596393
#1	.0232053	.0474323	.0187446	.0634945	.0973825	.4578466
#2	.0196564	.0492849	.0201883	.0627488	.1051315	.4444069
#3	.0177499	.0501669	.0213211	.0620296	.1015817	.4103440

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3919492	.0101304	.0094376	9.700581	.0200846	.0972922
Stddev	.0021746	.0000523	.0000510	.042828	.0004092	.0007043
%RSD	.5548221	.5160524	.5405929	.4415035	2.037211	.7238787
#1	.3917513	.0100731	.0093796	9.690431	.0205567	.0965709
#2	.3898803	.0101427	.0094576	9.663739	.0198336	.0979781
#3	.3942160	.0101755	.0094755	9.747572	.0198634	.0973277

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0527144	.2413658	.0326147	10.23012	.0770102	.0184562
Stddev	.0046978	.0107010	.0020844	.06022	.0004547	.0007953
%RSD	8.911760	4.433505	6.391036	.5886972	.5904220	4.309331
#1	.0528505	.2465009	.0350216	10.17063	.0768070	.0178207
#2	.0479500	.2485315	.0314046	10.22869	.0766925	.0181999
#3	.0573426	.2290652	.0314180	10.29106	.0775311	.0193481

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.405712	.1049919	.1158227	8.595147	.0158491	F -.005050
Stddev	.573794	.0067591	.0090858	.098273	.0007885	.001359
%RSD	6.826235	6.437684	7.844597	1.143356	4.974932	26.90909
#1	7.751355	.1124104	.1053325	8.686929	.0164710	-.003486
#2	8.822904	.1033827	.1209285	8.607044	.0149623	-.005945
#3	8.642876	.0991827	.1212070	8.491466	.0161140	-.005720

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: PB165739BS Acquired: 12/23/2024 20:59:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS739 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0194637	.1732839	F .3764080	.0136311	.1949572	.1970129
Stddev	.0005677	.0009685	.0025846	.0012631	.0055027	.0005125
%RSD	2.916519	.5588791	.6866594	9.266231	2.822509	.2601570
#1	.0189644	.1722606	.3792670	.0124051	.1886159	.1966570
#2	.0200811	.1734050	.3742369	.0135598	.1984756	.1967813
#3	.0193457	.1741861	.3757201	.0149283	.1977800	.1976004

Elem	Li6707
Units	ppm
Avg	.0327911
Stddev	.0021184
%RSD	6.460259
#1	.0309201
#2	.0350912
#3	.0323621

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2074.175	27140.10	2177.389	1788.697	1880.480
Stddev	7.592	129.70	8.789	11.939	6.976
%RSD	.3660263	.4779012	.4036585	.6674476	.3709550
#1	2082.314	27059.47	2169.244	1776.777	1887.644
#2	2072.925	27071.11	2176.217	1788.660	1880.086
#3	2067.285	27289.71	2186.705	1800.654	1873.709

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-01 Acquired: 12/23/2024 21:03:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL28 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1121510	-.017407	1.312513	.0456874	.0288221	53.37227	.9297932
Stddev	.0041399	.001514	.004858	.0026528	.0022715	.03758	.0021423
%RSD	3.691327	8.698364	.3701665	5.806340	7.881105	.0704202	.2304023
#1	.1162170	-.018481	1.306969	.0486706	.0299165	53.41015	.9286359
#2	.1122950	-.015675	1.314540	.0435936	.0303392	53.33498	.9322652
#3	.1079411	-.018064	1.316030	.0447979	.0262106	53.37168	.9284784

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0059704	.0084235	607.4345	.1555312	.1084146	.2817473	135.0243
Stddev	.0001523	.0001667	.8437	.0004665	.0012217	.0036463	.0715
%RSD	2.551222	1.978406	.1388968	.2999426	1.126847	1.294164	.0529175
#1	.0057945	.0086144	607.6569	.1550369	.1092428	.2784420	135.0863
#2	.0060564	.0083068	606.5019	.1559637	.1089894	.2811414	134.9461
#3	.0060602	.0083493	608.1448	.1555930	.1070116	.2856586	135.0406

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.321260	342.2526	.2230381	.0057196	-1.43660	.1798836	1.313536
Stddev	.008399	.0858	.0006885	.0007940	.45049	.0044728	.010080
%RSD	.1009367	.0250724	.3086882	13.88132	31.35813	2.486484	.7674301
#1	8.330949	342.2695	.2229270	.0048347	-1.14081	.1820770	1.311436
#2	8.316788	342.3287	.2224120	.0063697	-1.21392	.1828363	1.324501
#3	8.316044	342.1596	.2237755	.0059544	-1.95506	.1747375	1.304671

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.288241	8.941011	.0446239	.0099665	8.556889	8.137782	.1054191
Stddev	.072887	.033885	.0017042	.0004711	.041778	.048350	.0020497
%RSD	.8794048	.3789791	3.818981	4.727368	.4882382	.5941386	1.944363
#1	8.279224	8.903032	.0427355	.0094524	8.512510	8.173597	.1030540
#2	8.365217	8.951853	.0460474	.0100695	8.562701	8.082784	.1066789
#3	8.220281	8.968148	.0450887	.0103776	8.595457	8.156963	.1065245

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-01 Acquired: 12/23/2024 21:03:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL28 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7481940	.1851970	.0677657
Stddev	.0049446	.0015943	.0012876
%RSD	.6608707	.8608760	1.900100
#1	.7533738	.1857174	.0668950
#2	.7435242	.1834075	.0671574
#3	.7476839	.1864661	.0692448

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2246.133	29509.15	2497.060	1918.351	1630.477
Stddev	8.402	111.73	4.982	7.277	6.563
%RSD	.3740507	.3786166	.1995086	.3793564	.4024918
#1	2243.512	29525.97	2491.524	1919.226	1633.483
#2	2239.354	29389.97	2501.183	1910.675	1622.950
#3	2255.533	29611.52	2498.473	1925.151	1634.998

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-02 Acquired: 12/23/2024 21:07:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL29 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1602228	-.054730	3.034135	.0835079	.0310522	61.06972	1.015049
Stddev	.0037686	.001492	.005443	.0029393	.0019845	.20020	.001228
%RSD	2.352119	2.726406	.1794039	3.519800	6.390818	.3278268	.1209667
#1	.1579834	-.054254	3.035807	.0802307	.0329479	60.85209	1.014737
#2	.1645738	-.053533	3.028052	.0859112	.0289895	61.11100	1.014007
#3	.1581112	-.056402	3.038546	.0843818	.0312193	61.24607	1.016403

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071399	.0093062	89.82771	.1919393	.1056366	.3764708	167.3416
Stddev	.0000972	.0000940	.13526	.0011359	.0005724	.0037910	.3359
%RSD	1.361112	1.009986	.1505798	.5918223	.5418078	1.006988	.2007147
#1	.0070346	.0092203	89.79557	.1932320	.1062695	.3806945	166.9762
#2	.0072261	.0092917	89.71142	.1914853	.1054850	.3753546	167.4117
#3	.0071589	.0094066	89.97615	.1911004	.1051553	.3733631	167.6369

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.442184	41.77128	.2680833	.0069752	-.892746	.1814100	1.281259
Stddev	.006466	.20120	.0010423	.0009857	.071545	.0065302	.026495
%RSD	.0765958	.4816649	.3888054	14.13168	8.013995	3.599717	2.067892
#1	8.437522	41.58824	.2678936	.0059549	-.969426	.1879870	1.250971
#2	8.449567	41.98671	.2671489	.0070484	-.827784	.1813153	1.300140
#3	8.439465	41.73890	.2692075	.0079223	-.881026	.1749276	1.292665

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.180606	7.441182	.0129602	.0116168	3.980122	6.697753	1.430090
Stddev	.101123	.023411	.0016217	.0002809	.003335	.048878	.005269
%RSD	1.951961	.3146120	12.51302	2.417746	.0837820	.7297612	.3684118
#1	5.063840	7.449977	.0114301	.0116364	3.976293	6.734411	1.428227
#2	5.238554	7.414648	.0146601	.0118874	3.982390	6.642260	1.426005
#3	5.239424	7.458922	.0127904	.0113267	3.981682	6.716589	1.436036

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-02 Acquired: 12/23/2024 21:07:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL29 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8347755	.0095017	.0691765
Stddev	.0033621	.0002580	.0027566
%RSD	.4027566	2.715626	3.984920
#1	.8386571	.0097437	.0660414
#2	.8328940	.0095311	.0712210
#3	.8327754	.0092302	.0702670

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2463.670	31892.93	2621.519	2114.313	1860.274
Stddev	.265	171.98	8.209	10.261	2.991
%RSD	.0107525	.5392336	.3131311	.4853229	.1607996
#1	2463.365	31993.99	2612.042	2122.268	1858.578
#2	2463.844	31694.36	2626.069	2102.731	1863.728
#3	2463.800	31990.45	2626.444	2117.941	1858.517

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-03 Acquired: 12/23/2024 21:11:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL30 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1915747	-.074685	1.800088	.1131706	.0454091	74.46856	1.334585
Stddev	.0037633	.002480	.000551	.0024157	.0022868	.27932	.006481
%RSD	1.964404	3.320699	.0306067	2.134581	5.036072	.3750868	.4856161
#1	.1956454	-.073991	1.800723	.1110006	.0457760	74.17986	1.327717
#2	.1882224	-.077439	1.799805	.1157735	.0474903	74.48839	1.335442
#3	.1908562	-.072627	1.799736	.1127378	.0429610	74.73745	1.340594

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0086210	.0091922	63.32443	.1736292	.1255534	.4188760	203.5485
Stddev	.0001250	.0001186	.18884	.0008863	.0010192	.0030306	.9051
%RSD	1.449492	1.290271	.2982050	.5104624	.8117601	.7235115	.4446408
#1	.0084782	.0093239	63.10728	.1735703	.1253351	.4153872	202.6415
#2	.0087105	.0091588	63.41581	.1727738	.1246611	.4203838	203.5526
#3	.0086743	.0090939	63.45019	.1745435	.1266641	.4208569	204.4516

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.67707	35.48434	.2455027	.0084783	-.167968	.2152520	1.203603
Stddev	.05039	.27910	.0009086	.0005613	.261680	.0068594	.017734
%RSD	.4315477	.7865441	.3701089	6.620970	155.7917	3.186661	1.473414
#1	11.63217	35.16793	.2454662	.0082165	.082407	.2228176	1.205135
#2	11.66746	35.69555	.2446129	.0080957	-.439650	.2134993	1.220521
#3	11.73157	35.58954	.2464290	.0091227	-.146661	.2094390	1.185152

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.907094	6.923474	.0056816	.0116279	3.540623	8.730694	.1860367
Stddev	.053750	.016930	.0016931	.0000380	.009813	.071010	.0029888
%RSD	1.095350	.2445322	29.80005	.3267280	.2771661	.8133406	1.606546
#1	4.868638	6.914065	.0038073	.0116712	3.538070	8.745894	.1836848
#2	4.968511	6.913337	.0071002	.0116003	3.532337	8.653315	.1850253
#3	4.884132	6.943018	.0061372	.0116120	3.551460	8.792874	.1893999

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-03 Acquired: 12/23/2024 21:11:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL30 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8444768	-.025408	.0894105
Stddev	.0060723	.000567	.0007452
%RSD	.7190572	2.231826	.8334845
#1	.8394774	-.024915	.0891621
#2	.8427189	-.025280	.0888211
#3	.8512340	-.026028	.0902481

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2529.571	32897.54	2682.002	2180.208	1848.023
Stddev	2.246	94.91	6.361	11.119	1.254
%RSD	.0888073	.2885071	.2371644	.5100151	.0678777
#1	2531.865	32893.64	2677.932	2173.345	1848.813
#2	2529.473	32804.65	2689.332	2174.243	1846.576
#3	2527.375	32994.35	2678.742	2193.037	1848.679

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-04 Acquired: 12/23/2024 21:15:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL31 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1565397	-.066578	1.172172	.1009085	.0372307	68.90610	1.006068
Stddev	.0029920	.003301	.003644	.0015616	.0007090	.16577	.002056
%RSD	1.911326	4.958488	.3108533	1.547526	1.904376	.2405789	.2043979
#1	.1597250	-.069191	1.171692	.0992308	.0372461	68.71830	1.003799
#2	.1561057	-.067675	1.168792	.1023196	.0379319	68.96793	1.006596
#3	.1537884	-.062867	1.176032	.1011752	.0365141	69.03208	1.007809

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071456	.0066676	48.03287	.1151653	.1203089	.3504844	183.2546
Stddev	.0001872	.0000435	.17647	.0011453	.0003864	.0035122	.4524
%RSD	2.619537	.6522755	.3673949	.9944663	.3211962	1.002087	.2468772
#1	.0069589	.0066632	47.84212	.1156080	.1199927	.3469278	182.7833
#2	.0071447	.0066265	48.06618	.1160231	.1201944	.3539504	183.6855
#3	.0073333	.0067131	48.19031	.1138647	.1207397	.3505751	183.2949

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.57611	24.43095	.1474166	.0079675	-.776308	.1784868	.6667696
Stddev	.04019	.14412	.0003939	.0002365	.835633	.0061599	.0122382
%RSD	.3196073	.5899200	.2671833	2.968410	107.6419	3.451205	1.835449
#1	12.53876	24.26925	.1473726	.0080198	-1.71457	.1803995	.6779179
#2	12.61865	24.54587	.1470465	.0077093	-.11216	.1715974	.6687161
#3	12.57093	24.47773	.1478306	.0081736	-.50219	.1834635	.6536748

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.122048	5.901242	.0038259	.0102550	2.477313	8.573184	.6203000
Stddev	.162019	.008143	.0014623	.0005718	.004765	.038193	.0030542
%RSD	3.930542	.1379876	38.22017	5.575637	.1923532	.4454885	.4923717
#1	4.113511	5.893231	.0055049	.0107414	2.482814	8.542007	.6237794
#2	4.288167	5.900985	.0028321	.0103985	2.474664	8.615785	.6180622
#3	3.964467	5.909511	.0031405	.0096252	2.474461	8.561760	.6190583

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-04 Acquired: 12/23/2024 21:15:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL31 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7022606	-.040887	.0629789
Stddev	.0027439	.000310	.0029146
%RSD	.3907175	.7581752	4.627825
#1	.6996195	-.040951	.0650186
#2	.7050968	-.041160	.0596408
#3	.7020655	-.040550	.0642774

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2591.421	33571.39	2745.206	2221.348	1875.683
Stddev	5.479	60.83	7.412	2.961	4.379
%RSD	.2114269	.1811985	.2700057	.1332968	.2334444
#1	2588.024	33542.66	2750.477	2218.637	1872.399
#2	2597.742	33530.25	2736.731	2220.901	1880.654
#3	2588.497	33641.27	2748.410	2224.508	1873.996

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-05 Acquired: 12/23/2024 21:19:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL32 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1945960	-.078685	.3932220	.1276665	.0437769	83.00866	1.057895
Stddev	.0091971	.000142	.0019520	.0042165	.0017846	.13424	.003418
%RSD	4.726244	.1798594	.4964189	3.302756	4.076490	.1617125	.3230876
#1	.2051986	-.078609	.3954690	.1321823	.0444723	83.12943	1.060853
#2	.1898191	-.078849	.3922531	.1238323	.0417493	82.86413	1.054154
#3	.1887703	-.078599	.3919440	.1269850	.0451091	83.03241	1.058679

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0086988	.0085728	31.44098	.1039930	.1488893	.2268362	220.2076
Stddev	.0000607	.0001295	.07924	.0009370	.0004339	.0042978	.5133
%RSD	.6978970	1.510198	.2520138	.9010382	.2914350	1.894661	.2330907
#1	.0087659	.0084364	31.53229	.1044899	.1493551	.2241723	220.5358
#2	.0086477	.0085881	31.40038	.1045770	.1488163	.2317943	219.6161
#3	.0086827	.0086939	31.39027	.1029122	.1484965	.2245421	220.4710

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.03608	22.13110	.1621867	.0074528	-.406297	.1964153	.4591094
Stddev	.06233	.14512	.0007335	.0003548	.664154	.0042566	.0058083
%RSD	.3887124	.6557439	.4522732	4.760159	163.4651	2.167162	1.265128
#1	16.08525	22.25791	.1626953	.0078531	.188724	.1934500	.4653849
#2	15.96597	21.97283	.1613459	.0071773	-.284805	.1945032	.4580212
#3	16.05701	22.16255	.1625190	.0073280	-1.12281	.2012926	.4539222

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.071415	3.430519	-.015703	.0055711	1.308968	9.084405	.0380408
Stddev	.128573	.008901	.004339	.0004039	.007430	.006937	.0005206
%RSD	4.186129	.2594777	27.63173	7.250766	.5675844	.0763664	1.368639
#1	3.161390	3.428022	-.013841	.0051067	1.305665	9.076696	.0382267
#2	2.924156	3.423133	-.020663	.0057659	1.303761	9.086375	.0384429
#3	3.128700	3.440403	-.012606	.0058408	1.317476	9.090145	.0374527

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-05 Acquired: 12/23/2024 21:19:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL32 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5694865	-.124431	.0750321
Stddev	.0019961	.000844	.0022699
%RSD	.3505088	.6786939	3.025268
#1	.5675413	-.124497	.0776528
#2	.5715299	-.123555	.0736867
#3	.5693885	-.125240	.0737567

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2972.628	38676.26	3142.903	2544.281	1854.162
Stddev	10.946	212.01	18.518	6.283	7.662
%RSD	.3682194	.5481664	.5892134	.2469466	.4132534
#1	2982.770	38493.71	3122.760	2537.251	1860.994
#2	2974.090	38908.80	3159.189	2549.348	1855.616
#3	2961.025	38626.27	3146.760	2546.244	1845.877

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-06 Acquired: 12/23/2024 21:23:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL33 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1647216	-.062564	.2953788	.1056985	.0396418	74.16846	1.057871
Stddev	.0023281	.001282	.0024249	.0024315	.0003673	.16003	.002505
%RSD	1.413373	2.048725	.8209639	2.300439	.9264303	.2157660	.2367555
#1	.1633114	-.062916	.2936603	.1077083	.0400592	73.98407	1.054994
#2	.1634446	-.063633	.2943234	.1029957	.0393682	74.25021	1.059559
#3	.1674088	-.061143	.2981526	.1063916	.0394980	74.27111	1.059062

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0073844	.0067123	55.14569	.0990820	.1317982	.2146381	196.6848
Stddev	.0001337	.0001988	.19022	.0004607	.0002843	.0047122	.4198
%RSD	1.810430	2.962155	.3449471	.4649890	.2156835	2.195431	.2134167
#1	.0072308	.0066981	54.97577	.0986360	.1321166	.2100564	196.2078
#2	.0074745	.0069179	55.35119	.0995562	.1315698	.2143871	196.9980
#3	.0074479	.0065210	55.11012	.0990538	.1317083	.2194708	196.8485

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.34130	22.82321	.1581516	.0068870	-.434400	.1730539	.4155264
Stddev	.02153	.07327	.0001358	.0005613	.010338	.0057552	.0083808
%RSD	.1317255	.3210410	.0858534	8.150092	2.379946	3.325667	2.016909
#1	16.32166	22.89346	.1580279	.0062762	-.428608	.1694721	.4095842
#2	16.33792	22.74725	.1581301	.0073800	-.428255	.1699972	.4251123
#3	16.36431	22.82892	.1582969	.0070049	-.446336	.1796926	.4118828

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.103287	4.462255	-.004748	.0052136	1.151794	8.008872	.0314606
Stddev	.068725	.007998	.001716	.0002658	.003854	.010712	.0023699
%RSD	2.214598	.1792475	36.14527	5.098336	.3345649	.1337486	7.532905
#1	3.024527	4.453875	-.004558	.0054541	1.147451	8.000126	.0287462
#2	3.151085	4.463083	-.006552	.0049283	1.153128	8.005670	.0325169
#3	3.134248	4.469807	-.003135	.0052585	1.154804	8.020819	.0331186

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-06 Acquired: 12/23/2024 21:23:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL33 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5698017	-.092766	.1063207
Stddev	.0042229	.000252	.0025243
%RSD	.7411154	.2717436	2.374226
#1	.5698070	-.092875	.1050448
#2	.5655762	-.092478	.1046891
#3	.5740220	-.092946	.1092283

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2981.343	38794.34	3167.111	2560.460	1883.612
Stddev	8.456	180.67	13.784	22.219	5.904
%RSD	.2836148	.4657046	.4352326	.8677721	.3134667
#1	2987.908	38585.72	3151.744	2536.304	1890.389
#2	2971.802	38898.53	3178.387	2565.050	1879.572
#3	2984.320	38898.77	3171.200	2580.025	1880.877

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-07 Acquired: 12/23/2024 21:26:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL34 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0513041	-.008376	.1704528	.0280409	.0235388	42.93649	.4668431
Stddev	.0078972	.004571	.0014969	.0035319	.0020273	.30592	.0028456
%RSD	15.39301	54.57045	.8781952	12.59537	8.612384	.7124833	.6095393
#1	.0584633	-.010922	.1697657	.0320110	.0211980	42.95569	.4652768
#2	.0428331	-.011107	.1694229	.0268638	.0246974	43.23236	.4701278
#3	.0526160	-.003099	.1721699	.0252479	.0247211	42.62143	.4651248

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041668	.0031811	586.2557	.0702171	.1017701	.1799890	115.9337
Stddev	.0002142	.0001372	4.6156	.0003216	.0003891	.0046294	1.2353
%RSD	5.139512	4.311601	.7873082	.4580336	.3823321	2.572063	1.065507
#1	.0043473	.0032631	584.8617	.0705110	.1021059	.1853074	115.6759
#2	.0042229	.0030228	591.4076	.0702668	.1013437	.1777960	117.2776
#3	.0039302	.0032575	582.4976	.0698736	.1018607	.1768635	114.8477

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.039618	91.15473	.1138209	.0041635	-1.58828	.1038772	.3816393
Stddev	.059584	.83678	.0007259	.0008199	.82977	.0053617	.0072206
%RSD	.6591401	.9179772	.6377935	19.69195	52.24296	5.161579	1.891992
#1	9.026114	90.77780	.1135707	.0049318	-1.37508	.1081048	.3735793
#2	9.104795	92.11368	.1132531	.0042585	-2.50384	.1056804	.3838213
#3	8.987946	90.57271	.1146389	.0033003	-.88592	.0978463	.3875171

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.682888	4.901178	.0179889	.0025652	1.216291	6.328568	.0323111
Stddev	.117868	.013996	.0006524	.0006026	.007189	.065812	.0016355
%RSD	3.200410	.2855732	3.626641	23.49107	.5911004	1.039921	5.061623
#1	3.571163	4.908710	.0185053	.0032607	1.224213	6.350923	.0341845
#2	3.806062	4.885029	.0172557	.0022005	1.210182	6.380290	.0311680
#3	3.671438	4.909797	.0182056	.0022343	1.214478	6.254490	.0315809

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-07 Acquired: 12/23/2024 21:26:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL34 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4895648	.3225267	.0732535
Stddev	.0049725	.0027525	.0009666
%RSD	1.015695	.8534239	1.319539
#1	.4943296	.3225448	.0723710
#2	.4899569	.3252700	.0731030
#3	.4844078	.3197651	.0742866

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2393.517	31189.23	2611.935	2042.626	1709.547
Stddev	2.539	65.67	25.524	10.290	2.985
%RSD	.1060945	.2105609	.9772131	.5037618	.1746359
#1	2394.707	31263.02	2604.686	2052.540	1710.480
#2	2395.242	31167.51	2590.820	2043.340	1711.956
#3	2390.601	31137.18	2640.300	2031.997	1706.207

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-08 Acquired: 12/23/2024 21:30:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL34D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0567285	-.011365	.1687958	.0351363	.0188258	42.70046	.4650919
Stddev	.0044916	.000642	.0038198	.0037047	.0008916	.08128	.0025624
%RSD	7.917777	5.646796	2.262992	10.54379	4.735887	.1903395	.5509480
#1	.0582427	-.011847	.1684148	.0394134	.0190917	42.69739	.4642347
#2	.0516755	-.010637	.1651807	.0330672	.0195541	42.78323	.4679730
#3	.0602674	-.011611	.1727918	.0329284	.0178315	42.62077	.4630679

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040927	.0031303	582.0228	.0701014	.1007043	.1762956	115.6978
Stddev	.0000703	.0000640	.6934	.0006576	.0008451	.0014303	.2866
%RSD	1.718497	2.045192	.1191367	.9379926	.8391576	.8113196	.2476736
#1	.0040201	.0032020	582.6019	.0696012	.1016799	.1747111	116.0115
#2	.0041605	.0031101	582.2121	.0708462	.1002309	.1766842	115.4498
#3	.0040975	.0030789	581.2544	.0698569	.1002020	.1774915	115.6321

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.002221	91.12488	.1122986	.0027111	-1.15862	.0993506	.3686747
Stddev	.005568	.21109	.0005734	.0009069	.28619	.0064755	.0151528
%RSD	.0618494	.2316450	.5106122	33.45183	24.70079	6.517796	4.110076
#1	8.996163	90.97726	.1129458	.0017558	-.86913	.1038707	.3558501
#2	9.007115	91.36666	.1118540	.0028170	-1.16536	.0919322	.3647790
#3	9.003383	91.03071	.1120961	.0035603	-1.44139	.1022487	.3853951

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.591741	4.862740	.0178060	.0034157	1.206044	6.288194	.0293829
Stddev	.086170	.014561	.0018239	.0006329	.007083	.056000	.0007239
%RSD	2.399125	.2994464	10.24303	18.52770	.5873130	.8905572	2.463718
#1	3.511459	4.857132	.0199095	.0027869	1.205132	6.351798	.0287151
#2	3.580976	4.851817	.0168420	.0040526	1.199460	6.266489	.0301522
#3	3.682788	4.879272	.0166663	.0034076	1.213539	6.246295	.0292814

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-08 Acquired: 12/23/2024 21:30:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL34D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4838817	.3177825	.0686361
Stddev	.0022327	.0015262	.0013453
%RSD	.4614252	.4802639	1.960017
#1	.4863832	.3191990	.0672078
#2	.4820905	.3161662	.0688213
#3	.4831715	.3179822	.0698791

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2397.579	31288.60	2615.402	2052.367	1714.372
Stddev	2.956	69.83	19.452	3.333	5.221
%RSD	.1232789	.2231707	.7437444	.1624196	.3045720
#1	2398.907	31321.40	2593.280	2052.423	1715.484
#2	2399.638	31336.00	2629.832	2049.005	1718.948
#3	2394.193	31208.42	2623.093	2055.671	1708.684

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-07LX5 Acquired: 12/23/2024 21:34:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL34L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0054347	.0110535	.0424366	-.011443	.0073431	10.04971	.1070331
Stddev	.0018193	.0050110	.0016144	.002214	.0017362	.04263	.0018896
%RSD	33.47649	45.33399	3.804272	19.35186	23.64392	.4242258	1.765469
#1	.0038785	.0114986	.0418650	-.010751	.0090454	10.03954	.1056092
#2	.0074350	.0158270	.0411857	-.009657	.0055749	10.01308	.1091769
#3	.0049905	.0058347	.0442590	-.013921	.0074090	10.09651	.1063134

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010173	.0004600	137.0341	.0163019	.0416115	.0434020	27.60142
Stddev	.0000843	.0000833	.5129	.0004371	.0004227	.0036767	.09934
%RSD	8.282659	18.10659	.3742956	2.681483	1.015894	8.471303	.3599054
#1	.0010185	.0005172	136.5123	.0168062	.0416632	.0465174	27.48704
#2	.0011009	.0003645	137.0524	.0160310	.0411653	.0393465	27.66611
#3	.0009324	.0004984	137.5377	.0160685	.0420060	.0443421	27.65110

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.159385	21.79711	.0213235	.0014059	-1.45180	.0229312	.0934111
Stddev	.004191	.14620	.0003422	.0005217	.74469	.0015454	.0156746
%RSD	.1940945	.6707241	1.604763	37.10448	51.29417	6.739397	16.78029
#1	2.155231	21.71987	.0217185	.0008688	-1.38320	.0218798	.1106164
#2	2.159311	21.70573	.0211351	.0014383	-.74379	.0222081	.0799424
#3	2.163613	21.96572	.0211170	.0019107	-2.22842	.0247056	.0896745

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0882757	.9541557	.0005640	.0028004	.2544089	1.659497	.0079192
Stddev	.0410548	.0034158	.0028711	.0007512	.0043888	.004078	.0024814
%RSD	46.50755	.3579957	509.0750	26.82472	1.725105	.2457531	31.33385
#1	.0472475	.9547720	.0031316	.0021915	.2522400	1.662309	.0102379
#2	.1293572	.9504737	.0010965	.0036399	.2594599	1.661363	.0053021
#3	.0882223	.9572214	-.002536	.0025700	.2515268	1.654820	.0082176

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-07LX5 Acquired: 12/23/2024 21:34:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL34L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1230419	.0738315	.0111077
Stddev	.0008982	.0003104	.0007482
%RSD	.7300215	.4203900	6.735588
#1	.1221033	.0738666	.0110439
#2	.1238934	.0735051	.0118857
#3	.1231290	.0741229	.0103934

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2134.304	27792.37	2275.915	1826.672	1815.786
Stddev	2.270	81.95	13.842	12.231	2.849
%RSD	.1063522	.2948586	.6081791	.6695706	.1569072
#1	2132.294	27697.79	2291.608	1814.947	1815.506
#2	2136.766	27842.25	2270.692	1825.718	1818.765
#3	2133.851	27837.08	2265.445	1839.353	1813.087

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-09 Acquired: 12/23/2024 21:38:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL43S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1400788	.0751691	.2085314	.1786946	.1699872	46.27471	3.700109
Stddev	.0053246	.0051686	.0029739	.0049985	.0012673	.05313	.005681
%RSD	3.801158	6.876024	1.426090	2.797249	.7455059	.1148101	.1535380
#1	.1461744	.0746252	.2112675	.1839319	.1687690	46.32528	3.704569
#2	.1363354	.0702939	.2089603	.1739751	.1698941	46.21935	3.702046
#3	.1377265	.0805881	.2053664	.1781767	.1712983	46.27950	3.693713

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0853802	.0971474	579.4429	.4074893	1.032020	.5586823	117.1180
Stddev	.0003624	.0001183	1.6287	.0007688	.004020	.0088246	.2634
%RSD	.4244155	.1217261	.2810722	.1886699	.3895588	1.579536	.2248596
#1	.0853194	.0970466	581.0149	.4081119	1.032984	.5648958	117.4221
#2	.0857692	.0971181	579.5508	.4066300	1.027605	.5625696	116.9598
#3	.0850522	.0972776	577.7630	.4077262	1.035470	.5485814	116.9723

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.759703	90.40423	1.063782	.0615004	-.949249	.9354396	1.160228
Stddev	.023763	.37461	.002137	.0005307	1.178061	.0062109	.000567
%RSD	.2434809	.4143678	.2008408	.8628855	124.1045	.6639601	.0488904
#1	9.786827	90.56093	1.065259	.0620631	-2.29608	.9416167	1.159604
#2	9.742551	90.67504	1.061332	.0614294	-.44122	.9355067	1.160711
#3	9.749730	89.97672	1.064755	.0610089	-.11045	.9291954	1.160370

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.913005	4.857090	.0206096	.0035147	1.215034	6.887420	.0306108
Stddev	.027277	.017432	.0017141	.0005684	.012908	.037975	.0018477
%RSD	.6970925	.3588926	8.317079	16.17216	1.062344	.5513671	6.035981
#1	3.943714	4.861336	.0225724	.0041607	1.225894	6.919777	.0285693
#2	3.903716	4.837927	.0198494	.0032925	1.200763	6.896870	.0321682
#3	3.891585	4.872006	.0194071	.0030910	1.218444	6.845612	.0310950

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-09 Acquired: 12/23/2024 21:38:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL43S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5254373	.3158500	.0751743
Stddev	.0090653	.0007125	.0055603
%RSD	1.725284	.2255697	7.396533
#1	.5320951	.3159963	.0688253
#2	.5151130	.3164779	.0791761
#3	.5291037	.3150757	.0775215

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2381.441	31148.98	2613.459	2038.309	1705.498
Stddev	3.784	56.94	12.922	2.567	.876
%RSD	.1588768	.1828015	.4944520	.1259592	.0513815
#1	2385.005	31085.29	2602.404	2040.757	1706.385
#2	2377.470	31166.71	2610.307	2035.636	1705.475
#3	2381.848	31194.95	2627.666	2038.532	1704.633

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-10 Acquired: 12/23/2024 21:42:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL77 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1639003	-.072716	.5708849	.1053102	.0382164	72.44815	.7763787
Stddev	.0023124	.002199	.0013142	.0018149	.0035850	.29645	.0006473
%RSD	1.410842	3.023996	.2302000	1.723360	9.380765	.4091855	.0833709
#1	.1627513	-.070272	.5693688	.1067853	.0346340	72.10606	.7757833
#2	.1665621	-.073343	.5716998	.1032835	.0418039	72.60850	.7762853
#3	.1623875	-.074534	.5715860	.1058618	.0382112	72.62989	.7770677

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0081376	.0076024	35.62867	.1173491	.1158397	.2536661	186.4924
Stddev	.0000414	.0001292	.08800	.0004782	.0008431	.0045311	.6630
%RSD	.5081780	1.699779	.2469913	.4074687	.7277771	1.786245	.3555271
#1	.0080922	.0076003	35.53703	.1175786	.1165741	.2485204	185.7667
#2	.0081732	.0074743	35.63648	.1176693	.1160258	.2570587	187.0664
#3	.0081474	.0077327	35.71251	.1167995	.1149191	.2554192	186.6441

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.23032	23.16931	.1820111	.0056685	-1.07028	.2050250	.6900206
Stddev	.02573	.13270	.0005909	.0011216	.36510	.0033801	.0140448
%RSD	.2290779	.5727537	.3246580	19.78654	34.11205	1.648644	2.035420
#1	11.20331	23.03528	.1826604	.0059757	-.88166	.2081092	.6861415
#2	11.25453	23.30065	.1818681	.0044253	-.83808	.2014114	.6783230
#3	11.23312	23.17200	.1815048	.0066045	-1.49111	.2055545	.7055972

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.411720	6.034455	.0138254	.0079196	3.439818	9.898730	.0426938
Stddev	.083522	.011853	.0014521	.0005582	.003280	.019584	.0004215
%RSD	1.126885	.1964245	10.50275	7.048087	.0953401	.1978419	.9872862
#1	7.315291	6.030012	.0124907	.0082257	3.437796	9.891359	.0422078
#2	7.458531	6.025464	.0136139	.0082578	3.443602	9.883902	.0429598
#3	7.461337	6.047887	.0153716	.0072754	3.438057	9.920930	.0429138

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-10 Acquired: 12/23/2024 21:42:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL77 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8589104	-.107034	.0682382
Stddev	.0021170	.000271	.0020808
%RSD	.2464771	.2534661	3.049348
#1	.8610414	-.106815	.0658365
#2	.8588822	-.107337	.0693795
#3	.8568076	-.106949	.0694986

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2744.787	35731.49	2892.337	2365.032	1907.489
Stddev	9.344	54.01	11.486	10.739	9.336
%RSD	.3404241	.1511543	.3971052	.4540914	.4894201
#1	2754.174	35746.25	2902.357	2376.726	1914.788
#2	2744.701	35776.58	2894.853	2362.756	1910.710
#3	2735.487	35671.63	2879.802	2355.612	1896.970

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-11 Acquired: 12/23/2024 21:46:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL78 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1571554	-.066205	.5572358	.0989933	.0354637	68.70497	.7081660
Stddev	.0046307	.001831	.0010378	.0034026	.0018376	.22930	.0013240
%RSD	2.946542	2.766140	.1862478	3.437225	5.181686	.3337387	.1869671
#1	.1624403	-.064143	.5561644	.1021544	.0374324	68.50787	.7092711
#2	.1552165	-.066831	.5573066	.0994336	.0351650	68.95662	.7085284
#3	.1538093	-.067641	.5582365	.0953920	.0337938	68.65042	.7066985

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0076992	.0068146	47.39715	.1075849	.1104602	.2515758	176.7645
Stddev	.0001019	.0000706	.05418	.0004255	.0006733	.0016983	.7709
%RSD	1.323156	1.036098	.1143075	.3954797	.6095147	.6750740	.4361420
#1	.0076554	.0068826	47.37284	.1071043	.1098849	.2512012	176.1410
#2	.0076265	.0068197	47.45923	.1079134	.1102950	.2534302	177.6265
#3	.0078156	.0067416	47.35939	.1077370	.1112007	.2500961	176.5258

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.39922	26.78748	.1739919	.0048382	-1.34546	.1897211	.6930357
Stddev	.02697	.09440	.0010079	.0006650	.34514	.0027369	.0144786
%RSD	.2593818	.3523863	.5792745	13.74477	25.65202	1.442581	2.089159
#1	10.38420	26.73493	.1745696	.0055616	-1.33324	.1927723	.6839777
#2	10.43036	26.73105	.1728281	.0046994	-1.00660	.1874828	.6853952
#3	10.38310	26.89645	.1745780	.0042535	-1.69655	.1889081	.7097341

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.111581	7.519640	.0148009	.0068374	3.473338	9.848853	.0392533
Stddev	.106203	.019599	.0022640	.0003089	.013490	.024757	.0019959
%RSD	1.493378	.2606415	15.29633	4.518074	.3883834	.2513733	5.084640
#1	6.988971	7.540831	.0172504	.0071710	3.458869	9.829591	.0406496
#2	7.170830	7.502164	.0143671	.0065612	3.475574	9.840190	.0369673
#3	7.174942	7.515925	.0127852	.0067801	3.485570	9.876778	.0401430

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-11 Acquired: 12/23/2024 21:46:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL78 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7859585	-.087065	.0671325
Stddev	.0010367	.000886	.0046535
%RSD	.1319044	1.017292	6.931841
#1	.7862545	-.086354	.0620602
#2	.7868150	-.088057	.0712045
#3	.7848060	-.086784	.0681327

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2729.335	35523.12	2857.955	2359.771	1900.565
Stddev	2.281	73.86	6.066	3.585	2.564
%RSD	.0835554	.2079245	.2122553	.1519102	.1349335
#1	2730.536	35465.03	2858.999	2355.825	1899.427
#2	2730.764	35606.25	2863.431	2362.825	1903.501
#3	2726.705	35498.10	2851.434	2360.664	1898.766

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-12 Acquired: 12/23/2024 21:49:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL79 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1708488	-.069143	.5935236	.1081687	.0407601	74.69730	.8145861
Stddev	.0034004	.007750	.0018681	.0021150	.0018477	.19076	.0013737
%RSD	1.990277	11.20904	.3147394	1.955249	4.533128	.2553815	.1686346
#1	.1721855	-.067706	.5913751	.1085058	.0414328	74.52280	.8136203
#2	.1669832	-.062211	.5944327	.1100948	.0386703	74.90097	.8161586
#3	.1733778	-.077511	.5947632	.1059054	.0421772	74.66812	.8139793

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0083216	.0079063	49.74961	.1121825	.1239963	.2577625	196.5887
Stddev	.0001057	.0000814	.20939	.0006422	.0011360	.0076964	.5763
%RSD	1.270076	1.029056	.4208824	.5724899	.9161409	2.985856	.2931405
#1	.0082783	.0078145	49.67346	.1124028	.1231035	.2547948	195.9403
#2	.0082444	.0079349	49.98642	.1114591	.1236104	.2665010	197.0424
#3	.0084421	.0079695	49.58896	.1126855	.1252750	.2519917	196.7832

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.88335	31.90966	.1902789	.0051027	-1.46339	.1997507	.6766318
Stddev	.01979	.06640	.0003575	.0008577	.21384	.0051489	.0062724
%RSD	.1665049	.2081010	.1878679	16.80939	14.61267	2.577640	.9270046
#1	11.87647	31.90155	.1904552	.0042114	-1.64178	.2050683	.6739267
#2	11.90566	31.97975	.1898675	.0059224	-1.22634	.1947890	.6838029
#3	11.86793	31.84769	.1905139	.0051744	-1.52203	.1993947	.6721659

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.291607	5.550870	.0089931	.0057502	2.743703	8.235288	.0402948
Stddev	.195526	.016637	.0031956	.0001241	.015957	.057360	.0005756
%RSD	3.107733	.2997125	35.53370	2.158623	.5815807	.6965207	1.428473
#1	6.278030	5.537910	.0053082	.0056953	2.740418	8.231911	.0396427
#2	6.493569	5.545069	.0110016	.0056629	2.729644	8.179691	.0407322
#3	6.103224	5.569630	.0106696	.0058923	2.761046	8.294263	.0405096

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-12 Acquired: 12/23/2024 21:49:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL79 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7069434	-.110514	.0736502
Stddev	.0024003	.000449	.0011534
%RSD	.3395316	.4059498	1.566107
#1	.7047476	-.110220	.0731518
#2	.7095060	-.110290	.0749690
#3	.7065766	-.111030	.0728298

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2821.139	36767.13	3002.518	2440.923	1880.459
Stddev	9.125	149.83	13.347	9.564	7.039
%RSD	.3234366	.4075003	.4445265	.3918075	.3743469
#1	2831.580	36755.91	3012.771	2449.385	1886.718
#2	2817.139	36623.23	3007.356	2430.547	1881.820
#3	2814.697	36922.25	2987.427	2442.838	1872.838

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCV006 Acquired: 12/23/2024 21:53:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV006 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.986639	4.714978	23.96071	4.811410	4.801980	392.5702	9.919332
Stddev	.012084	.013116	.03690	.018768	.011547	.8412	.028306
%RSD	.2423309	.2781843	.1540153	.3900732	.2404538	.2142803	.2853583
#1	4.980700	4.716845	23.95899	4.811899	4.796935	392.6782	9.942240
#2	4.978675	4.701028	23.92470	4.792402	4.793814	393.3521	9.928068
#3	5.000544	4.727061	23.99845	4.829928	4.815190	391.6802	9.887688

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4896515	2.411255	399.1338	15.06764	2.425948	14.75167	402.3591
Stddev	.0023846	.004137	.6880	.02416	.002740	.07998	1.2551
%RSD	.4869889	.1715776	.1723633	.1603747	.1129389	.5421449	.3119476
#1	.4910772	2.411929	398.7864	15.09471	2.425595	14.66932	402.7672
#2	.4868987	2.406822	399.9262	15.04825	2.423402	14.82904	403.3595
#3	.4909788	2.415014	398.6889	15.05997	2.428848	14.75664	400.9507

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.71092	396.7161	2.429184	1.251552	392.9182	2.475265	14.91834
Stddev	.05266	1.2469	.002044	.002542	1.5219	.014247	.15684
%RSD	.3579514	.3143001	.0841571	.2031229	.3873388	.5755940	1.051295
#1	14.69936	396.0623	2.429535	1.254480	393.4107	2.474607	14.74343
#2	14.76840	398.1539	2.426987	1.249900	394.1329	2.489831	14.96516
#3	14.66501	395.9320	2.431030	1.250276	391.2110	2.461359	15.04643

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	146.1504	4.836513	4.730234	4.780662	4.828685	4.624987	4.862971
Stddev	.8525	.005548	.020722	.017971	.015703	.018883	.011667
%RSD	.5832752	.1147110	.4380673	.3759062	.3251937	.4082884	.2399176
#1	145.9868	4.841983	4.750621	4.772721	4.823946	4.643486	4.859672
#2	147.0729	4.830890	4.709193	4.768029	4.815899	4.605741	4.853309
#3	145.3917	4.836666	4.730889	4.801235	4.846212	4.625735	4.875933

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCV006 Acquired: 12/23/2024 21:53:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV006 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	4.898648	4.663305	4.924516
Stddev	.016261	.011779	.008639
%RSD	.3319412	.2525794	.1754306
#1	4.884945	4.650090	4.925590
#2	4.894384	4.672697	4.932568
#3	4.916616	4.667129	4.915390

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1811.917	24611.68	2132.801	1541.944	1582.189
Stddev	4.171	42.12	8.823	8.543	.978
%RSD	.2301730	.1711268	.4136969	.5540352	.0618058
#1	1811.849	24567.88	2124.822	1544.019	1581.207
#2	1816.122	24651.89	2142.277	1549.258	1583.162
#3	1807.781	24615.27	2131.304	1532.554	1582.198

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCB006 Acquired: 12/23/2024 21:57:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB006 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004902	-.001488	.0050765	.0043473	.0001835	.0405252	-.002226
Stddev	.0035607	.004899	.0014644	.0042841	.0006145	.0338900	.000557
%RSD	726.4180	329.3451	28.84604	98.54860	334.8743	83.62696	25.00630
#1	.0043590	-.006029	.0065616	.0023268	-.000094	.0761137	-.002866
#2	-.002650	-.002138	.0036337	.0014469	.000888	.0368244	-.001848
#3	-.000239	.003704	.0050342	.0092680	-.000243	.0086375	-.001965

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000384	.0000136	-.015477	-.000126	-.000128	.0057395	.0326924
Stddev	.0000969	.0001024	.028309	.000171	.000044	.0015477	.0378230
%RSD	252.0580	755.3984	182.9084	135.8034	34.24447	26.96660	115.6932
#1	-.000047	-.000084	.002756	.000047	-.000101	.0075241	.0195584
#2	.000018	.000005	-.048090	-.000131	-.000104	.0047643	.0753316
#3	.000144	.000120	-.001098	-.000294	-.000178	.0049300	.0031874

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028592	.0143843	.0009074	.0004157	-1.14798	.0001972	-.001337
Stddev	.0018174	.0739891	.0004978	.0007819	.91063	.0056600	.007341
%RSD	63.56418	514.3744	54.85509	188.0823	79.32396	2869.680	549.1115
#1	.0013464	.0385519	.0012418	.0010918	-1.17798	-.006173	.004233
#2	.0048752	-.068667	.0003354	-.000441	-.22273	.004647	.001412
#3	.0023560	.073268	.0011451	.000596	-2.04324	.002118	-.009656

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.898485	.0004903	.0051895	.0003092	-.005433	-.082672	-.000836
Stddev	.088315	.0005126	.0004639	.0004559	.001698	.000801	.001859
%RSD	9.829309	104.5609	8.938371	147.4625	31.26018	.9682977	222.3505
#1	-.999558	.0010708	.0051842	.0001971	-.007080	-.082645	-.001283
#2	-.836217	.0000998	.0056560	-.000080	-.005531	-.083486	.001206
#3	-.859679	.0003002	.0047284	.000811	-.003688	-.081886	-.002430

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCB006 Acquired: 12/23/2024 21:57:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB006 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0000420	.0001857	.0013333
Stddev	.0025925	.0001824	.0010820
%RSD	6178.864	98.21362	81.15081
#1	-.000608	.0003930	.0025762
#2	.002898	.0001138	.0006018
#3	-.002164	.0000502	.0008220

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2009.783	26313.39	2142.092	1742.036	1820.190
Stddev	7.680	101.50	11.343	13.435	7.133
%RSD	.3821138	.3857531	.5295313	.7712432	.3918870
#1	2017.420	26233.10	2155.186	1728.531	1826.477
#2	2009.868	26427.48	2135.813	1755.400	1821.654
#3	2002.061	26279.58	2135.277	1742.178	1812.438

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5071-01 Acquired: 12/23/2024 22:01:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKX5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0703631	-.028155	.3826370	.0401822	.0239615	53.24332
Stddev	.0043954	.002870	.0019111	.0030388	.0015001	.10273
%RSD	6.246785	10.19205	.4994639	7.562630	6.260495	.1929485
#1	.0735025	-.028999	.3824389	.0410960	.0256704	53.16377
#2	.0653398	-.030509	.3808326	.0367914	.0233519	53.20690
#3	.0722472	-.024959	.3846394	.0426593	.0228622	53.35930

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6952261	.0055085	.0037268	231.0478	.0887510	.0795028
Stddev	.0009937	.0001807	.0000662	.3427	.0003927	.0006028
%RSD	.1429374	3.279662	1.775478	.1483202	.4424814	.7581717
#1	.6959519	.0056336	.0036504	231.1246	.0892044	.0797931
#2	.6940935	.0053014	.0037668	230.6733	.0885282	.0788098
#3	.6956329	.0055905	.0037631	231.3456	.0885203	.0799055

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0869335	116.0938	2.708690	92.37181	.0971205	.0027612
Stddev	.0031883	.2729	.004809	.10116	.0006796	.0014737
%RSD	3.667505	.2350944	.1775331	.1095151	.6997852	53.37026
#1	.0851219	115.9951	2.707756	92.39362	.0978106	.0027825
#2	.0906149	115.8840	2.704416	92.26152	.0964518	.0042241
#3	.0850637	116.4024	2.713897	92.46029	.0970992	.0012770

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.973596	.1408360	.5655888	3.840009	F 12.49066	.0188718
Stddev	.629687	.0027213	.0066511	.027587	.05097	.0015515
%RSD	64.67645	1.932214	1.175968	.7184119	.4080471	8.221283
#1	-1.20581	.1380549	.5624402	3.808811	12.49640	.0187189
#2	-.26078	.1434932	.5732296	3.861183	12.43706	.0204942
#3	-1.45420	.1409598	.5610966	3.850033	12.53851	.0174025

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5071-01 Acquired: 12/23/2024 22:01:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKX5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052710	1.770068	7.083483	.0344183	.8415743	.1230710
Stddev	.0003134	.005024	.074821	.0011002	.0012501	.0008162
%RSD	5.946572	.2838510	1.056273	3.196596	.1485484	.6632185
#1	.0049100	1.768073	7.090932	.0356232	.8418813	.1232287
#2	.0054738	1.766348	7.005217	.0341647	.8401993	.1221874
#3	.0054292	1.775784	7.154301	.0334670	.8426424	.1237968

Elem	Li6707
Units	ppm
Avg	.0977170
Stddev	.0030384
%RSD	3.109421
#1	.0972428
#2	.1009646
#3	.0949435

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2525.458	33007.32	2723.751	2163.539	1774.269
Stddev	9.496	71.66	17.025	10.595	9.372
%RSD	.3760301	.2170952	.6250418	.4897255	.5282055
#1	2528.176	32925.50	2724.048	2152.288	1773.794
#2	2533.300	33037.54	2740.625	2165.002	1783.869
#3	2514.899	33058.92	2706.579	2173.327	1765.144

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5071-02 Acquired: 12/23/2024 22:05:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKX5D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0598523	-.026266	.3830238	.0383362	.0248959	52.29370
Stddev	.0022686	.004068	.0034897	.0050783	.0052209	.15147
%RSD	3.790338	15.48572	.9110999	13.24685	20.97081	.2896431
#1	.0585378	-.021924	.3851495	.0422297	.0268006	52.12040
#2	.0585472	-.026888	.3849257	.0401868	.0189901	52.35997
#3	.0624718	-.029988	.3789963	.0325921	.0288969	52.40075

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6848771	.0053894	.0037892	227.6094	.0876550	.0801279
Stddev	.0018326	.0001941	.0001100	.7123	.0002601	.0010620
%RSD	.2675855	3.602243	2.901667	.3129336	.2966788	1.325336
#1	.6830323	.0055412	.0038773	226.7933	.0875741	.0805494
#2	.6866973	.0051707	.0038244	227.9290	.0874450	.0789199
#3	.6849018	.0054564	.0036660	228.1058	.0879459	.0809144

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0869953	114.1100	2.657668	90.52022	.0976035	.0019580
Stddev	.0047482	.3017	.008630	.33378	.0004121	.0009555
%RSD	5.458004	.2644370	.3247211	.3687385	.4222100	48.79825
#1	.0816918	113.8885	2.652397	90.61918	.0971473	.0026880
#2	.0908513	113.9877	2.652979	90.14815	.0977145	.0023094
#3	.0884429	114.4536	2.667627	90.79334	.0979487	.0008766

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.64841	.1410920	.5809434	3.759178	F 12.47309	.0171684
Stddev	.25759	.0091115	.0079388	.093043	.01023	.0024456
%RSD	15.62654	6.457857	1.366532	2.475082	.0820005	14.24490
#1	-1.92185	.1512973	.5737515	3.803578	12.48004	.0187787
#2	-1.61303	.1382049	.5796167	3.652253	12.46135	.0183724
#3	-1.41033	.1337738	.5894619	3.821704	12.47789	.0143542

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5071-02 Acquired: 12/23/2024 22:05:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKX5D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048748	1.774511	7.084397	.0359072	.8449052	.1219775
Stddev	.0006328	.003897	.094783	.0013384	.0048147	.0012334
%RSD	12.98173	.2196060	1.337913	3.727374	.5698454	1.011188
#1	.0043334	1.778128	7.104858	.0364789	.8440996	.1206980
#2	.0055705	1.770384	6.981054	.0368649	.8405441	.1231590
#3	.0047205	1.775022	7.167278	.0343779	.8500718	.1220754

Elem	Li6707
Units	ppm
Avg	.0937619
Stddev	.0050279
%RSD	5.362366
#1	.0883981
#2	.0945199
#3	.0983678

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2529.157	33443.61	2751.127	2199.363	1774.289
Stddev	2.385	131.10	30.497	15.913	2.728
%RSD	.0943073	.3920022	1.108525	.7235396	.1537347
#1	2529.283	33389.38	2744.334	2192.950	1776.664
#2	2531.477	33348.34	2784.448	2187.657	1774.892
#3	2526.711	33593.13	2724.599	2217.482	1771.310

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5071-01LX5 Acquired: 12/23/2024 22:09:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKX5L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050548	.0035223	.0840348	-.001359	.0088921	12.53415	.1628558
Stddev	.0049635	.0005282	.0022781	.002664	.0011667	.03599	.0019561
%RSD	98.19291	14.99531	2.710852	196.0763	13.12053	.2871644	1.201135
#1	.0076273	.0037280	.0866144	-.004414	.0098981	12.50551	.1611789
#2	.0082040	.0029222	.0822989	.000482	.0091653	12.57456	.1650048
#3	-.000667	.0039166	.0831911	-.000144	.0076131	12.52239	.1623836

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013819	.0006409	55.60749	.0215260	.0307906	.0250757	28.02358
Stddev	.0001408	.0001256	.10164	.0004605	.0005055	.0080295	.05097
%RSD	10.18936	19.59612	.1827809	2.139371	1.641737	32.02104	.1818868
#1	.0013268	.0007846	55.66089	.0217697	.0313306	.0159828	27.99810
#2	.0012770	.0005522	55.67131	.0209948	.0303287	.0280529	28.08227
#3	.0015420	.0005859	55.49028	.0218135	.0307126	.0311914	27.99037

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6573115	22.42800	.0183286	.0004518	-1.45632	.0326506	.1499989
Stddev	.0032288	.04809	.0003666	.0006939	.68207	.0050832	.0114279
%RSD	.4912184	.2144041	2.000001	153.5814	46.83536	15.56848	7.618677
#1	.6566116	22.40319	.0186915	.0012425	-1.39073	.0327039	.1430689
#2	.6608328	22.39739	.0179585	-.000056	-2.16881	.0275409	.1631891
#3	.6544899	22.48343	.0183358	.000169	-.80941	.0377069	.1437388

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1846344	2.503676	.0001732	.0029949	.3571559	1.684222	.0090262
Stddev	.1297286	.005274	.0025181	.0003497	.0052596	.007135	.0012438
%RSD	70.26240	.2106688	1454.014	11.67693	1.472621	.4236327	13.77986
#1	.1668430	2.508978	.0029144	.0033948	.3632000	1.681655	.0079930
#2	.0647198	2.498430	-.002037	.0027462	.3536199	1.692285	.0086789
#3	.3223405	2.503620	-.000358	.0028438	.3546477	1.678725	.0104067

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5071-01LX5 Acquired: 12/23/2024 22:09:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKX5L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2023755	.0294995	.0158532
Stddev	.0007007	.0004578	.0033571
%RSD	.3462125	1.551925	21.17597
#1	.2023032	.0293923	.0164620
#2	.2031096	.0300014	.0122335
#3	.2017139	.0291048	.0188643

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2166.112	28197.08	2299.863	1863.519	1839.834
Stddev	1.424	171.98	14.594	10.138	2.426
%RSD	.0657394	.6099224	.6345486	.5440479	.1318667
#1	2167.434	28026.73	2291.198	1852.794	1841.442
#2	2164.604	28370.65	2291.679	1872.945	1837.043
#3	2166.296	28193.86	2316.713	1864.820	1841.018

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5071-03 Acquired: 12/23/2024 22:13:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKX5S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1428578	.0553519	.4143581	.1832370	.1679505	55.34411
Stddev	.0050869	.0046903	.0033042	.0030135	.0016649	.73252
%RSD	3.560781	8.473532	.7974201	1.644570	.9913139	1.323575
#1	.1465743	.0499468	.4142624	.1838350	.1698698	55.85865
#2	.1449387	.0583492	.4111028	.1799693	.1670880	54.50544
#3	.1370604	.0577597	.4177091	.1859066	.1668939	55.66824

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.849473	.0847443	.0988768	227.3017	.4221406	1.019297
Stddev	.053426	.0005563	.0002188	3.1272	.0016598	.003478
%RSD	1.387867	.6564523	.2212636	1.375804	.3931877	.3412647
#1	3.884981	.0853394	.0987531	229.8716	.4220361	1.016001
#2	3.788031	.0846561	.0987480	223.8198	.4205355	1.018957
#3	3.875408	.0842373	.0991294	228.2136	.4238502	1.022933

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4569498	115.8177	3.462931	90.92261	1.054273	.0595713
Stddev	.0101839	1.6099	.056817	1.40172	.002951	.0003951
%RSD	2.228664	1.390035	1.640727	1.541661	.2799157	.6633147
#1	.4662027	117.1661	3.509378	91.82864	1.051711	.0591151
#2	.4460385	114.0353	3.399580	89.30807	1.053609	.0597899
#3	.4586082	116.2517	3.479835	91.63113	1.057500	.0598088

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.14954	.9474573	1.285005	3.810899	F 12.35840	.0165097
Stddev	.49473	.0192107	.022294	.169843	.04264	.0023376
%RSD	43.03742	2.027610	1.734914	4.456780	.3450624	14.15906
#1	-.57830	.9559658	1.281781	3.946895	12.32776	.0191583
#2	-1.43022	.9254616	1.264499	3.620526	12.34033	.0156361
#3	-1.44010	.9609443	1.308735	3.865274	12.40710	.0147347

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5071-03 Acquired: 12/23/2024 22:13:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKX5S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046343	1.760575	7.043156	.0359711	.8412412	.1210393
Stddev	.0003470	.011367	.037781	.0014821	.0172585	.0022857
%RSD	7.488581	.6456256	.5364226	4.120138	2.051551	1.888415
#1	.0043222	1.747650	7.086655	.0368843	.8488779	.1233093
#2	.0050080	1.765064	7.024288	.0342611	.8214819	.1187381
#3	.0045727	1.769012	7.018525	.0367680	.8533639	.1210704

Elem	Li6707
Units	ppm
Avg	.0951593
Stddev	.0032702
%RSD	3.436592
#1	.0952986
#2	.0918216
#3	.0983577

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2527.981	32920.99	2724.207	2159.370	1779.852
Stddev	4.759	257.47	29.089	24.830	4.554
%RSD	.1882610	.7820808	1.067783	1.149877	.2558676
#1	2532.456	32717.70	2691.994	2133.816	1785.004
#2	2522.981	33210.50	2748.553	2183.406	1776.363
#3	2528.507	32834.75	2732.074	2160.887	1778.190

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: PB165507BL Acquired: 12/23/2024 22:16:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS507 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018953	-.000870	-.001124	.0023130	.0012984	.0366520	-.000344
Stddev	.0053429	.002453	.002104	.0053631	.0013777	.0112424	.001338
%RSD	281.9017	282.0044	187.1375	231.8637	106.1071	30.67323	388.5481
#1	.0032988	.001819	-.003353	.0028715	-.000133	.0489649	-.001841
#2	-.004009	-.002987	-.000848	-.003307	.002615	.0340573	.000070
#3	.006396	-.001442	.000828	.007375	.001413	.0269339	.000737

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000097	-.000036	-.018598	-.001101	-.000113	.0029094	.0093647
Stddev	.000101	.000096	.004110	.000681	.000315	.0033623	.0217929
%RSD	103.8330	266.8901	22.09721	61.88179	278.4136	115.5666	232.7133
#1	-.000020	-.000083	-.023322	-.000971	-.000476	.0051584	.0278445
#2	-.000211	.000075	-.015851	-.001837	.000063	-.000956	-.014667
#3	-.000059	-.000099	-.016620	-.000493	.000074	.004526	.014917

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012121	.1083328	.0003694	-.000238	-2.07540	-.001251	.0048528
Stddev	.0009422	.0972520	.0005941	.001285	.33126	.010633	.0194531
%RSD	77.72826	89.77151	160.8499	540.4358	15.96115	850.1150	400.8656
#1	.0006439	.0957637	.0010415	.000429	-1.73281	.001110	.0196769
#2	.0006928	.0179764	-.000086	-.001719	-2.09936	-.012866	-.017175
#3	.0022997	.2112582	.000153	.000577	-2.39403	.008004	.012056

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.07365	.0012655	-.005457	.0005244	-.005896	-.083302	.0005108
Stddev	.14914	.0016492	.000707	.0005531	.008323	.001012	.0010649
%RSD	13.89107	130.3159	12.95380	105.4726	141.1656	1.214433	208.4782
#1	-.99821	.0028530	-.006254	.0010294	-.014093	-.083389	-.000295
#2	-1.24545	.0013826	-.004907	-.000067	.002547	-.084268	.000110
#3	-.97731	-.000439	-.005211	.000611	-.006142	-.082250	.001718

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: PB165507BL Acquired: 12/23/2024 22:16:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS507 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.001662	.0002216	-.009862
Stddev	.005314	.0000861	.004909
%RSD	319.7013	38.87254	49.77695
#1	-.000051	.0001394	-.015495
#2	.002660	.0002143	-.007592
#3	-.007596	.0003112	-.006499

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2036.544	26407.48	2178.177	1743.698	1842.638
Stddev	.715	147.48	15.614	9.714	1.668
%RSD	.0351155	.5584661	.7168423	.5570895	.0905104
#1	2037.186	26286.95	2172.367	1734.759	1840.969
#2	2036.672	26363.55	2166.301	1742.301	1842.640
#3	2035.773	26571.93	2195.863	1754.035	1844.304

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: PB165507BS Acquired: 12/23/2024 22:20:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS507 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0237884	.0495025	.0205659	.0646048	.1075513	.4293103
Stddev	.0023950	.0045310	.0023315	.0030916	.0026568	.0187948
%RSD	10.06786	9.152989	11.33689	4.785463	2.470274	4.377917
#1	.0264691	.0534840	.0215122	.0671196	.1102018	.4117428
#2	.0230367	.0504514	.0179100	.0655417	.1048882	.4270584
#3	.0218595	.0445723	.0222755	.0611531	.1075640	.4491296

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3948774	.0099549	.0095630	9.750266	.0198910	.0985489
Stddev	.0017516	.0001497	.0000792	.062650	.0007476	.0012156
%RSD	.4435890	1.503718	.8279763	.6425499	3.758552	1.233473
#1	.3961422	.0100437	.0096428	9.813496	.0204763	.0988696
#2	.3956119	.0100389	.0094845	9.749091	.0190488	.0972051
#3	.3928781	.0097821	.0095617	9.688212	.0201480	.0995720

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0599677	.1955541	.0329945	10.17303	.0768423	.0188064
Stddev	.0082412	.0391766	.0007482	.16249	.0003002	.0007899
%RSD	13.74276	20.03366	2.267668	1.597242	.3906454	4.200121
#1	.0528822	.2055792	.0334492	10.34315	.0771431	.0179723
#2	.0690118	.2287440	.0321310	10.15648	.0765427	.0189036
#3	.0580092	.1523390	.0334034	10.01945	.0768411	.0195431

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.680130	.1124339	.1193152	8.312156	.0183148	F -.007309
Stddev	.463225	.0074058	.0067244	.231145	.0005236	.002568
%RSD	5.336613	6.586815	5.635800	2.780810	2.858941	35.13911
#1	9.049893	.1092377	.1123747	8.562564	.0178263	-.004344
#2	8.160534	.1209010	.1258003	8.266953	.0188676	-.008849
#3	8.829963	.1071628	.1197706	8.106952	.0182505	-.008735

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: PB165507BS Acquired: 12/23/2024 22:20:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS507 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0201737	.1727626	F .3705651	.0112469	.1916281	.1985199
Stddev	.0007217	.0008325	.0032145	.0001455	.0022230	.0009577
%RSD	3.577564	.4818954	.8674542	1.294012	1.160054	.4824132
#1	.0193473	.1721989	.3742755	.0110878	.1937904	.1995175
#2	.0206800	.1723700	.3686251	.0113734	.1893490	.1976079
#3	.0204939	.1737188	.3687946	.0112794	.1917449	.1984343

Elem	Li6707
Units	ppm
Avg	F .0199685
Stddev	.0024945
%RSD	12.49235
#1	.0198127
#2	.0175555
#3	.0225373

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2076.445	26915.20	2199.159	1780.823	1880.402
Stddev	14.625	37.81	15.860	3.652	11.247
%RSD	.7043060	.1404842	.7211863	.2050600	.5980962
#1	2066.184	26872.36	2182.525	1784.245	1872.231
#2	2093.191	26929.33	2200.843	1776.978	1893.229
#3	2069.961	26943.91	2214.111	1781.247	1875.747

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-01 Acquired: 12/23/2024 22:24:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLR0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1991573	-.092151	.3351148	.1142794	.0491053	68.69758
Stddev	.0061374	.002577	.0020614	.0030391	.0014617	.03702
%RSD	3.081685	2.796569	.6151303	2.659343	2.976554	.0538935
#1	.2036965	-.091728	.3342318	.1118831	.0486035	68.66134
#2	.1921745	-.094913	.3336419	.1176978	.0507517	68.73534
#3	.2016010	-.089811	.3374706	.1132574	.0479606	68.69605

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7074925	.0087287	.0042533	123.9754	.1085335	.1798538
Stddev	.0015018	.0000868	.0001274	.0586	.0007828	.0011328
%RSD	.2122703	.9944286	2.995283	.0472664	.7212718	.6298213
#1	.7064573	.0087839	.0044003	124.0252	.1076296	.1797076
#2	.7092149	.0087735	.0041755	123.9902	.1089797	.1788012
#3	.7068053	.0086286	.0041840	123.9109	.1089911	.1810525

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2429292	242.0467	6.255063	46.39509	.2096344	.0064281
Stddev	.0025018	.5422	.013638	.21750	.0016524	.0007143
%RSD	1.029859	.2240074	.2180340	.4688058	.7882316	11.11276
#1	.2400872	241.9373	6.246773	46.15393	.2111827	.0071948
#2	.2439015	242.6353	6.270804	46.57640	.2078946	.0063085
#3	.2447990	241.5676	6.247613	46.45495	.2098259	.0057812

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.999395	.1990357	.5199901	5.148399	F 10.45514	.0102345
Stddev	.475148	.0085940	.0110802	.048840	.03883	.0054884
%RSD	47.54357	4.317839	2.130849	.9486453	.3713563	53.62711
#1	-.911099	.2036757	.5184420	5.126920	10.44351	.0060356
#2	-1.51250	.2043124	.5317630	5.113980	10.42345	.0164449
#3	-.57459	.1891190	.5097654	5.204298	10.49845	.0082230

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-01 Acquired: 12/23/2024 22:24:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLR0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041380	.6846290	4.743947	.0282056	.6187576	-.098345
Stddev	.0004295	.0059145	.037125	.0011492	.0023786	.000385
%RSD	10.37810	.8639001	.7825663	4.074247	.3844161	.3914067
#1	.0040383	.6778087	4.786626	.0286754	.6207888	-.097946
#2	.0037673	.6877336	4.726091	.0268959	.6161409	-.098714
#3	.0046086	.6883448	4.719125	.0290454	.6193431	-.098375

Elem	Li6707
Units	ppm
Avg	.0982951
Stddev	.0011156
%RSD	1.134966
#1	.0988350
#2	.0990381
#3	.0970123

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2755.488	35942.00	2966.175	2367.393	1833.952
Stddev	6.820	81.78	19.822	10.067	6.795
%RSD	.2475023	.2275413	.6682580	.4252291	.3705334
#1	2763.075	35969.91	2943.487	2367.895	1839.802
#2	2753.524	35849.91	2974.908	2357.085	1835.555
#3	2749.866	36006.17	2980.132	2377.200	1826.498

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-02 Acquired: 12/23/2024 22:28:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLW6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1046288	-.052309	10.80099	.0718409	.0329838	65.33065
Stddev	.0048170	.002283	.01068	.0042065	.0008384	.21435
%RSD	4.603879	4.363712	.0988910	5.855236	2.541890	.3281033
#1	.1020416	-.053037	10.78950	.0714160	.0322253	65.53296
#2	.1101866	-.049751	10.80283	.0678630	.0328420	65.35298
#3	.1016583	-.054138	10.81063	.0762437	.0338840	65.10601

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9707263	.0076108	.0062404	85.50200	.1188507	.0977174
Stddev	.0007456	.0002138	.0002081	.13968	.0005292	.0002997
%RSD	.0768077	2.808843	3.334603	.1633614	.4452913	.3067418
#1	.9702936	.0078494	.0060054	85.58757	.1192759	.0973739
#2	.9702980	.0075460	.0063146	85.57763	.1182580	.0979260
#3	.9715872	.0074369	.0064013	85.34082	.1190182	.0978523

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3373776	147.0831	4.936566	27.48176	.1895110	.0036242
Stddev	.0032613	.2303	.011175	.04564	.0005286	.0000796
%RSD	.9666530	.1565745	.2263652	.1660871	.2789078	2.196496
#1	.3397935	147.2612	4.949345	27.50689	.1901133	.0035691
#2	.3386712	147.1651	4.928630	27.50932	.1891247	.0037154
#3	.3336679	146.8230	4.931722	27.42908	.1892948	.0035880

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.15776	.1899026	.9587636	8.203483	F 14.93010	.0275719
Stddev	.36136	.0060282	.0116711	.026204	.01835	.0014525
%RSD	31.21223	3.174346	1.217308	.3194242	.1228929	5.268092
#1	-1.42378	.1858521	.9453903	8.185633	14.91782	.0284959
#2	-.74635	.1870254	.9668927	8.233567	14.92128	.0258977
#3	-1.30315	.1968303	.9640079	8.191250	14.95119	.0283222

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-02 Acquired: 12/23/2024 22:28:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLW6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0075694	4.395722	5.741074	.1681193	.7557296	.0612854
Stddev	.0006146	.012267	.083095	.0007587	.0031085	.0008083
%RSD	8.119486	.2790662	1.447370	.4512858	.4113309	1.318964
#1	.0082698	4.391548	5.829865	.1676579	.7552399	.0612123
#2	.0071204	4.386087	5.728174	.1689950	.7590539	.0621277
#3	.0073179	4.409532	5.665185	.1677052	.7528950	.0605160

Elem	Li6707
Units	ppm
Avg	.0846726
Stddev	.0032232
%RSD	3.806662
#1	.0883129
#2	.0821813
#3	.0835237

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2636.837	34571.04	2810.418	2267.299	1886.660
Stddev	1.791	183.52	21.061	10.197	2.024
%RSD	.0679077	.5308393	.7493981	.4497299	.1073039
#1	2636.120	34781.55	2793.106	2278.557	1887.663
#2	2638.876	34444.74	2804.284	2264.656	1887.987
#3	2635.517	34486.83	2833.866	2258.684	1884.330

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-03 Acquired: 12/23/2024 22:32:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLW7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1103508	-.047659	1.199448	.0712493	.0279247	67.27983
Stddev	.0022572	.000586	.004017	.0030254	.0021057	.24549
%RSD	2.045464	1.229497	.3348730	4.246226	7.540776	.3648854
#1	.1117884	-.047831	1.197931	.0696466	.0270506	67.02680
#2	.1077492	-.048140	1.196411	.0747389	.0263968	67.51702
#3	.1115149	-.047007	1.204002	.0693624	.0303267	67.29568

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.033535	.0078470	.0065237	74.65471	.1195705	.0982290
Stddev	.003592	.0001446	.0001440	.25503	.0001338	.0006723
%RSD	.3475004	1.842361	2.207342	.3416171	.1119355	.6843859
#1	1.031259	.0079755	.0066181	74.40957	.1194740	.0988904
#2	1.037675	.0078749	.0063580	74.91860	.1195142	.0975464
#3	1.031672	.0076905	.0065952	74.63597	.1197233	.0982503

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2912880	143.5281	5.043594	26.40968	.1886684	.0036146
Stddev	.0055887	.5248	.009969	.02353	.0001531	.0005347
%RSD	1.918629	.3656697	.1976500	.0890801	.0811511	14.79379
#1	.2938259	143.0304	5.035110	26.38930	.1887453	.0037210
#2	.2951574	144.0764	5.054573	26.43542	.1887678	.0040881
#3	.2848806	143.4774	5.041098	26.40431	.1884921	.0030346

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.56398	.1912313	.9572665	5.753728	F 14.85223	.0159350
Stddev	.54107	.0033866	.0204943	.133063	.01075	.0011891
%RSD	34.59576	1.770927	2.140924	2.312644	.0723841	7.462143
#1	-2.11522	.1892409	.9582974	5.613398	14.85618	.0157876
#2	-1.54305	.1951416	.9362762	5.878081	14.84006	.0148265
#3	-1.03368	.1893115	.9772260	5.769706	14.86045	.0171909

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-03 Acquired: 12/23/2024 22:32:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLW7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071495	3.412164	5.798655	.0827374	.7263435	.0715701
Stddev	.0001937	.010265	.036907	.0008120	.0018234	.0010213
%RSD	2.708853	.3008444	.6364826	.9814262	.2510339	1.426983
#1	.0069678	3.415819	5.831669	.0832086	.7242438	.0704962
#2	.0073532	3.420101	5.805487	.0832037	.7275280	.0716853
#3	.0071275	3.400571	5.758808	.0817997	.7272588	.0725290

Elem	Li6707
Units	ppm
Avg	.0892974
Stddev	.0030006
%RSD	3.360196
#1	.0873084
#2	.0878350
#3	.0927488

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2627.632	34302.98	2790.288	2268.205	1853.740
Stddev	11.175	112.73	19.994	7.455	3.440
%RSD	.4252964	.3286411	.7165398	.3286554	.1855703
#1	2640.038	34310.53	2779.761	2270.961	1857.712
#2	2618.354	34186.65	2777.759	2273.890	1851.707
#3	2624.503	34411.74	2813.346	2259.765	1851.802

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-04 Acquired: 12/23/2024 22:36:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLW8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1427876	-.073868	9.653890	.1028361	.0376128	63.73978
Stddev	.0058447	.003991	.021081	.0017979	.0030961	.14695
%RSD	4.093288	5.403183	.2183669	1.748326	8.231433	.2305406
#1	.1424416	-.078060	9.642274	.1037515	.0370669	63.88967
#2	.1487976	-.070114	9.641173	.1007647	.0348261	63.73369
#3	.1371235	-.073430	9.678224	.1039921	.0409456	63.59597

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.062252	.0086302	.0071100	345.7738	.0983754	.1185590
Stddev	.004632	.0000609	.0000469	1.3136	.0006015	.0001184
%RSD	.4360853	.7055158	.6592086	.3798979	.6114192	.0998763
#1	1.063746	.0085890	.0071575	346.5189	.0990582	.1184346
#2	1.065953	.0087001	.0071089	346.5454	.0979240	.1185722
#3	1.057057	.0086014	.0070638	344.2571	.0981439	.1186703

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2788841	229.2055	7.478671	91.19792	.1669571	.0048800
Stddev	.0055808	.4900	.033545	.04047	.0006140	.0010505
%RSD	2.001108	.2137770	.4485413	.0443746	.3677753	21.52752
#1	.2832965	229.5932	7.495966	91.20636	.1674432	.0060159
#2	.2807451	229.3685	7.500038	91.23350	.1662670	.0039434
#3	.2726106	228.6548	7.440008	91.15390	.1671609	.0046806

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-2.13755	.2199551	.6909282	4.849765	F 14.98746	.0120350
Stddev	.57880	.0069843	.0116173	.140796	.03538	.0018389
%RSD	27.07778	3.175323	1.681400	2.903160	.2360430	15.27967
#1	-1.77638	.2223335	.6779350	4.773720	14.96949	.0135870
#2	-2.80514	.2254396	.6945364	5.012232	14.96467	.0125141
#3	-1.83113	.2120923	.7003132	4.763343	15.02821	.0100040

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-04 Acquired: 12/23/2024 22:36:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLW8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0085419	2.843080	5.055193	2.487083	.6216371	.2137630
Stddev	.0001672	.005357	.022757	.011794	.0043106	.0016630
%RSD	1.957570	.1884206	.4501620	.4742288	.6934334	.7779825
#1	.0085285	2.839171	5.058179	2.482730	.6243572	.2145300
#2	.0087154	2.840882	5.076309	2.478084	.6238872	.2149042
#3	.0083818	2.849186	5.031091	2.500435	.6166670	.2118549

Elem	Li6707
Units	ppm
Avg	.0920543
Stddev	.0041760
%RSD	4.536439
#1	.0962811
#2	.0879310
#3	.0919506

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2556.973	33364.11	2800.420	2191.437	1769.107
Stddev	5.880	184.00	22.929	18.896	6.342
%RSD	.2299468	.5514874	.8187807	.8622435	.3584884
#1	2557.351	33350.48	2800.837	2188.512	1772.314
#2	2562.654	33187.31	2777.285	2174.174	1773.204
#3	2550.913	33554.55	2823.137	2211.624	1761.802

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-05 Acquired: 12/23/2024 22:40:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLW9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0547842	-.019091	.2674832	.0373978	.0260775	47.74921
Stddev	.0043628	.005914	.0055358	.0027529	.0021887	.29077
%RSD	7.963539	30.97653	2.069583	7.361243	8.392903	.6089516
#1	.0598219	-.014651	.2738732	.0386355	.0269320	47.47532
#2	.0522601	-.025804	.2644334	.0393146	.0235905	47.71797
#3	.0522706	-.016819	.2641430	.0342432	.0277100	48.05434

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6002432	.0050685	.0049021	F 834.7147	.0765877	.1197575
Stddev	.0029964	.0000960	.0000389	4.4547	.0008850	.0017220
%RSD	.4991901	1.894205	.7941181	.5336815	1.155586	1.437937
#1	.5988848	.0049837	.0048571	831.8732	.0769589	.1216417
#2	.5981667	.0051728	.0049239	832.4220	.0772267	.1182652
#3	.6036782	.0050491	.0049252	839.8488	.0755775	.1193657

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2919408	136.6027	8.406909	153.0011	.1536510	.0021935
Stddev	.0119777	1.3196	.055797	.9276	.0013526	.0011351
%RSD	4.102771	.9660174	.6637010	.6062471	.8802984	51.74891
#1	.2978595	135.1679	8.369630	152.1746	.1552123	.0024314
#2	.2781560	136.8760	8.380040	152.8243	.1528343	.0009583
#3	.2998070	137.7643	8.471056	154.0043	.1529064	.0031908

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.64606	.1384090	.5560528	6.232363	7.707822	.0340993
Stddev	.71031	.0059200	.0135482	.246209	.059775	.0021095
%RSD	43.15225	4.277140	2.436487	3.950500	.7755080	6.186282
#1	-2.34318	.1387018	.5712872	6.055732	7.776678	.0348666
#2	-.92325	.1323481	.5515160	6.127752	7.677545	.0357178
#3	-1.67176	.1441771	.5453553	6.513604	7.669245	.0317136

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-05 Acquired: 12/23/2024 22:40:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLW9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039333	1.390153	4.878501	.0322288	.6347381	.6263464
Stddev	.0004858	.008669	.015941	.0013609	.0062376	.0031212
%RSD	12.35211	.6235991	.3267512	4.222548	.9826997	.4983117
#1	.0037382	1.397901	4.863123	.0313009	.6317688	.6260218
#2	.0044863	1.380790	4.894950	.0315945	.6419056	.6234003
#3	.0035753	1.391767	4.877430	.0337910	.6305398	.6296172

Elem	Li6707
Units	ppm
Avg	.0982341
Stddev	.0026536
%RSD	2.701343
#1	.0961668
#2	.0973091
#3	.1012265

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2314.754	30430.43	2587.219	1988.205	1644.626
Stddev	16.437	42.65	5.058	7.450	11.594
%RSD	.7100899	.1401424	.1955104	.3746951	.7049818
#1	2295.776	30437.08	2588.996	1985.576	1631.277
#2	2324.425	30384.84	2581.512	1982.427	1650.425
#3	2324.062	30469.35	2591.150	1996.613	1652.178

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-06 Acquired: 12/23/2024 22:43:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0771051	-.027045	.2481221	.0501872	.0318950	52.16426
Stddev	.0049754	.003235	.0022216	.0062616	.0005963	.10603
%RSD	6.452740	11.96112	.8953723	12.47646	1.869599	.2032557
#1	.0728428	-.028646	.2480653	.0450067	.0317030	52.19491
#2	.0759002	-.023322	.2503715	.0484093	.0325636	52.25159
#3	.0825723	-.029168	.2459294	.0571454	.0314183	52.04629

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6524105	.0058730	.0059738	F 1021.850	.0932470	.1405423
Stddev	.0027829	.0001656	.0001999	2.263	.0006246	.0008379
%RSD	.4265551	2.819640	3.345519	.2214686	.6698467	.5961816
#1	.6542146	.0058440	.0062044	1022.987	.0938329	.1395993
#2	.6538114	.0057238	.0058673	1023.319	.0925898	.1412011
#3	.6492055	.0060511	.0058498	1019.244	.0933184	.1408265

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3031377	163.8641	10.37709	124.0750	.1980021	.0028085
Stddev	.0053292	.2015	.01005	.0671	.0005728	.0005232
%RSD	1.758007	.1229586	.0968294	.0540553	.2893002	18.62824
#1	.3091176	163.6989	10.38234	123.9975	.1973436	.0022081
#2	.2988904	164.0885	10.38342	124.1140	.1983849	.0030501
#3	.3014052	163.8048	10.36550	124.1133	.1982779	.0031672

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.46431	.1333465	.5163537	8.879077	8.305110	.0477767
Stddev	.21539	.0009995	.0101748	.113469	.006441	.0034204
%RSD	14.70933	.7495771	1.970500	1.277932	.0775575	7.159206
#1	-1.62377	.1340491	.5052498	8.752371	8.299754	.0447045
#2	-1.21929	.1322022	.5185811	8.971314	8.303319	.0514623
#3	-1.54988	.1337881	.5252302	8.913546	8.312257	.0471633

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-06 Acquired: 12/23/2024 22:43:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041405	1.346977	4.961373	.0335858	.7201781	.7283751
Stddev	.0000513	.002014	.056455	.0007355	.0041951	.0019342
%RSD	1.238850	.1495557	1.137882	2.190039	.5825054	.2655518
#1	.0041894	1.345051	5.019375	.0331180	.7176537	.7286568
#2	.0040871	1.346810	4.906605	.0332058	.7178598	.7301530
#3	.0041452	1.349070	4.958139	.0344336	.7250207	.7263154

Elem	Li6707
Units	ppm
Avg	.1118062
Stddev	.0015624
%RSD	1.397406
#1	.1125127
#2	.1128906
#3	.1100154

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2362.702	30775.65	2646.940	2014.000	1635.840
Stddev	4.843	181.92	20.648	11.451	1.143
%RSD	.2049919	.5911194	.7800658	.5685453	.0698464
#1	2363.736	30747.32	2623.424	2006.938	1635.334
#2	2357.425	30609.56	2662.101	2007.851	1635.038
#3	2366.945	30970.07	2655.296	2027.212	1637.148

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-07 Acquired: 12/23/2024 22:47:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0353452	-.041245	.0965248	.0663590	.0352646	61.70433
Stddev	.0015282	.003652	.0014280	.0028664	.0023426	.17656
%RSD	4.323553	8.855171	1.479362	4.319489	6.643031	.2861359
#1	.0371079	-.043864	.0948759	.0689669	.0378264	61.51592
#2	.0343936	-.037073	.0973573	.0632900	.0347360	61.73110
#3	.0345342	-.042798	.0973411	.0668199	.0332315	61.86597

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5763190	.0071286	.0062714	F 1053.153	.1251488	.1451551
Stddev	.0028093	.0000935	.0000629	2.284	.0003249	.0002925
%RSD	.4874503	1.312122	1.002931	.2168604	.2595971	.2015380
#1	.5741707	.0072067	.0061988	1050.643	.1251323	.1451017
#2	.5752883	.0070250	.0063059	1053.707	.1254816	.1448929
#3	.5794980	.0071542	.0063096	1055.108	.1248325	.1454707

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1716083	183.6615	10.84027	114.2197	.2374864	.0026205
Stddev	.0018069	.5588	.03526	.8070	.0017237	.0001907
%RSD	1.052891	.3042451	.3253007	.7065264	.7258252	7.278132
#1	.1729311	183.0165	10.80472	113.3346	.2357135	.0025057
#2	.1695496	183.9701	10.84085	114.4098	.2391564	.0025152
#3	.1723440	183.9980	10.87524	114.9146	.2375893	.0028407

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-2.39982	.1221693	.4085333	11.71959	7.284650	.0595368
Stddev	.48465	.0119542	.0114707	.12260	.010976	.0012981
%RSD	20.19544	9.784922	2.807773	1.046117	.1506722	2.180372
#1	-2.80950	.1085714	.4196866	11.64404	7.297324	.0593308
#2	-1.86481	.1310236	.3967696	11.65369	7.278195	.0609256
#3	-2.52515	.1269129	.4091437	11.86105	7.278433	.0583540

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-07 Acquired: 12/23/2024 22:47:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034409	.9288047	5.184219	.0316070	1.135414	.6966598
Stddev	.0008782	.0077495	.029967	.0007623	.007849	.0014265
%RSD	25.52303	.8343538	.5780402	2.411639	.6912887	.2047575
#1	.0030549	.9285808	5.192077	.0312997	1.141061	.6951788
#2	.0028219	.9211696	5.209473	.0324749	1.126451	.6967762
#3	.0044461	.9366638	5.151105	.0310464	1.138731	.6980245

Elem	Li6707
Units	ppm
Avg	.1500149
Stddev	.0042860
%RSD	2.857053
#1	.1500421
#2	.1457154
#3	.1542873

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2422.785	31652.12	2718.393	2073.322	1636.104
Stddev	7.939	123.73	14.701	11.484	3.327
%RSD	.3276684	.3909026	.5407997	.5538743	.2033471
#1	2424.698	31793.76	2734.333	2086.569	1634.687
#2	2414.065	31597.50	2705.367	2067.215	1633.720
#3	2429.593	31565.10	2715.480	2066.182	1639.905

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-08 Acquired: 12/23/2024 22:51:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0533443	-.031201	.1113599	.0527721	.0319111	54.14490
Stddev	.0018074	.004322	.0020460	.0015237	.0021489	.21920
%RSD	3.388236	13.85086	1.837262	2.887370	6.734104	.4048417
#1	.0522281	-.030065	.1125817	.0532282	.0329205	53.98968
#2	.0523751	-.027561	.1089978	.0540156	.0333694	54.04936
#3	.0554296	-.035977	.1125000	.0510724	.0294433	54.39565

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4064739	.0059809	.0046688	F 895.2444	.1017234	.1284044
Stddev	.0008339	.0000843	.0000994	1.7447	.0005558	.0011319
%RSD	.2051430	1.409905	2.128159	.1948888	.5464071	.8815089
#1	.4055424	.0060439	.0046601	895.5358	.1019931	.1296814
#2	.4067287	.0060138	.0045741	893.3723	.1010842	.1280071
#3	.4071506	.0058851	.0047722	896.8250	.1020929	.1275248

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3003221	161.8912	7.858746	118.1809	.1765127	.0029990
Stddev	.0066833	.9609	.034038	.6683	.0009493	.0012366
%RSD	2.225359	.5935581	.4331192	.5655270	.5377852	41.23327
#1	.2926181	161.4154	7.850300	117.9363	.1774956	.0042308
#2	.3045637	161.2610	7.829726	117.6694	.1764414	.0017577
#3	.3037845	162.9972	7.896211	118.9371	.1756011	.0030084

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-2.03282	.1297553	.3856623	8.745450	8.641663	.0419188
Stddev	.13536	.0082004	.0131619	.066926	.003286	.0036851
%RSD	6.658633	6.319918	3.412808	.7652680	.0380221	8.791066
#1	-1.87668	.1384223	.3713357	8.672748	8.641142	.0383626
#2	-2.10492	.1287249	.3884328	8.804493	8.645179	.0416733
#3	-2.11687	.1221188	.3972184	8.759109	8.638670	.0457206

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-08 Acquired: 12/23/2024 22:51:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032922	.8762476	4.233210	.0275110	1.232163	.7501889
Stddev	.0006999	.0110156	.014539	.0021829	.009654	.0022336
%RSD	21.26049	1.257136	.3434608	7.934825	.7835140	.2977405
#1	.0025433	.8748261	4.249136	.0269582	1.243197	.7523178
#2	.0034034	.8660117	4.220646	.0256576	1.228025	.7478636
#3	.0039299	.8879049	4.229849	.0299172	1.225268	.7503852

Elem	Li6707
Units	ppm
Avg	.1207158
Stddev	.0017855
%RSD	1.479051
#1	.1215034
#2	.1219720
#3	.1186720

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2368.340	30918.73	2638.407	2029.109	1639.784
Stddev	2.652	48.19	12.650	3.931	1.737
%RSD	.1119943	.1558544	.4794689	.1937122	.1059262
#1	2367.701	30864.16	2625.627	2033.280	1638.287
#2	2371.254	30936.59	2650.924	2025.474	1641.689
#3	2366.065	30955.43	2638.669	2028.573	1639.377

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-09 Acquired: 12/23/2024 22:55:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0730353	-.074087	.3950149	.0920656	.0411038	90.29365	.7107760
Stddev	.0023095	.002303	.0009074	.0030883	.0043557	.17446	.0015457
%RSD	3.162173	3.107933	.2297213	3.354461	10.59692	.1932121	.2174709
#1	.0707073	-.071635	.3943408	.0955057	.0435019	90.09465	.7123111
#2	.0753258	-.076203	.3960467	.0895321	.0437334	90.42026	.7107971
#3	.0730729	-.074422	.3946572	.0911589	.0360760	90.36603	.7092199

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0075486	.0046807	47.56929	.1672687	.1026742	.1433314	177.3441
Stddev	.0000128	.0001274	.07711	.0005455	.0006197	.0044898	.3347
%RSD	.1694748	2.722288	.1620966	.3261319	.6035689	3.132446	.1887176
#1	.0075625	.0045533	47.49361	.1678332	.1020377	.1455098	177.0537
#2	.0075458	.0048081	47.64775	.1672286	.1027092	.1463164	177.2685
#3	.0075374	.0046807	47.56650	.1667444	.1032756	.1381680	177.7101

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.225655	30.17039	.2416497	.0035861	-1.86590	.1977452	.6292569
Stddev	.011606	.05372	.0003685	.0010633	1.00150	.0073657	.0163059
%RSD	.1864276	.1780691	.1525108	29.65191	53.67399	3.724842	2.591293
#1	6.212937	30.11283	.2412408	.0046166	-.82379	.1983841	.6231161
#2	6.228353	30.21921	.2417520	.0024927	-1.95277	.2047707	.6169129
#3	6.235674	30.17912	.2419563	.0036489	-2.82114	.1900809	.6477415

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.912533	9.560969	.0140949	.0110743	3.342920	6.580991	.0382162
Stddev	.063997	.011865	.0039685	.0007209	.011383	.058696	.0012911
%RSD	.6456151	.1240984	28.15550	6.509479	.3405137	.8918973	3.378306
#1	9.849001	9.559269	.0186689	.0103059	3.330713	6.571964	.0384397
#2	9.976985	9.550046	.0120472	.0111812	3.344805	6.643678	.0393810
#3	9.911613	9.573593	.0115684	.0117358	3.353244	6.527333	.0368281

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-09 Acquired: 12/23/2024 22:55:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.006871	-.081169	.0928139
Stddev	.006266	.000574	.0025434
%RSD	.6223719	.7070469	2.740355
#1	.999636	-.081179	.0928072
#2	1.010610	-.080590	.0953606
#3	1.010366	-.081738	.0902738

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2335.901	30536.17	2488.502	2011.201	1845.947
Stddev	5.812	80.67	15.136	7.441	1.524
%RSD	.2487959	.2641749	.6082343	.3699928	.0825703
#1	2339.529	30451.65	2488.736	2009.396	1846.002
#2	2329.198	30612.34	2473.251	2019.378	1844.396
#3	2338.976	30544.53	2503.520	2004.828	1847.443

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-10 Acquired: 12/23/2024 22:59:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0878537	-.088408	.3894176	.1210713	.0475293	103.4858	.8072429
Stddev	.0021802	.004325	.0052581	.0022543	.0033490	.5542	.0044979
%RSD	2.481642	4.892362	1.350238	1.861968	7.046232	.5355340	.5571968
#1	.0903485	-.083642	.3919825	.1232843	.0490342	102.8577	.8028217
#2	.0863146	-.092083	.3833693	.1187778	.0436918	103.9060	.8118138
#3	.0868978	-.089501	.3929010	.1211518	.0498619	103.6937	.8070931

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0087758	.0053408	37.71669	.1697663	.1155199	.1330901	215.9796
Stddev	.0001612	.0001506	.15631	.0011437	.0002727	.0012694	1.4058
%RSD	1.837390	2.820386	.4144399	.6736895	.2360362	.9537587	.6509051
#1	.0088652	.0055137	37.54088	.1693958	.1153523	.1331556	214.3695
#2	.0085896	.0052701	37.76922	.1688537	.1158345	.1317893	216.9636
#3	.0088725	.0052384	37.83997	.1710493	.1153728	.1343255	216.6057

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.538702	31.09520	.2400843	.0046782	-1.28275	.2407270	.5604998
Stddev	.068341	.22556	.0002097	.0003835	.84573	.0020325	.0043393
%RSD	.7164575	.7253774	.0873599	8.198294	65.93112	.8443171	.7741926
#1	9.461772	30.89823	.2403180	.0049996	-.72305	.2403248	.5646733
#2	9.592391	31.34126	.2399125	.0042536	-2.25565	.2429306	.5608143
#3	9.561944	31.04611	.2400222	.0047814	-.86955	.2389257	.5560117

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.623292	9.514320	.0028015	.0114429	2.391346	6.868437	.0419234
Stddev	.160526	.007856	.0039418	.0004603	.002656	.027348	.0017564
%RSD	2.105733	.0825736	140.7013	4.022315	.1110802	.3981718	4.189556
#1	7.459043	9.520580	-.000030	.0109382	2.393528	6.840064	.0400591
#2	7.631016	9.505504	.001131	.0115508	2.392122	6.894630	.0421638
#3	7.779817	9.516877	.007303	.0118396	2.388388	6.870617	.0435472

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-10 Acquired: 12/23/2024 22:59:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.033718	-.128041	.1050400
Stddev	.002142	.001579	.0015943
%RSD	.2072096	1.232980	1.517804
#1	1.033013	-.126541	.1068332
#2	1.032017	-.129688	.1037827
#3	1.036124	-.127893	.1045041

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2360.843	30571.09	2495.867	2022.779	1864.086
Stddev	1.754	54.11	15.250	2.863	2.010
%RSD	.0742788	.1769858	.6110185	.1415391	.1078388
#1	2360.355	30633.56	2513.402	2021.620	1862.009
#2	2359.385	30538.94	2488.501	2026.040	1864.225
#3	2362.789	30540.78	2485.698	2020.677	1866.022

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-11 Acquired: 12/23/2024 23:03:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0963772	-.086069	.5014363	.1101824	.0441414	102.2488	.8000357
Stddev	.0052185	.001474	.0036269	.0026246	.0027180	.4473	.0030940
%RSD	5.414638	1.712443	.7233040	2.382077	6.157508	.4375063	.3867374
#1	.0904889	-.085692	.5036164	.1077454	.0465405	102.2871	.7991138
#2	.1004298	-.084820	.4972495	.1129612	.0446943	101.7836	.7975074
#3	.0982128	-.087694	.5034431	.1098406	.0411895	102.6759	.8034859

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0087120	.0053555	41.64867	.1522429	.1247000	.1626553	205.6162
Stddev	.0000722	.0000750	.14508	.0009427	.0001374	.0045604	.7814
%RSD	.8283856	1.400641	.3483531	.6192365	.1101549	2.803739	.3800059
#1	.0087263	.0052842	41.58562	.1516098	.1248582	.1590607	205.4779
#2	.0086337	.0054338	41.54578	.1533264	.1246111	.1611200	204.9133
#3	.0087759	.0053487	41.81461	.1517926	.1246306	.1677853	206.4575

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.190605	33.16122	.2124036	.0045595	-1.67639	.2250567	.6818779
Stddev	.026465	.23375	.0010734	.0005061	1.04219	.0024311	.0018822
%RSD	.3231189	.7048992	.5053771	11.09977	62.16893	1.080217	.2760312
#1	8.199125	33.25572	.2111766	.0051355	-.84865	.2222666	.6801887
#2	8.160929	32.89502	.2131693	.0041860	-2.84677	.2267202	.6815381
#3	8.211760	33.33293	.2128648	.0043570	-1.33376	.2261832	.6839068

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.785812	7.926587	.0012577	.0089981	1.655950	7.270712	.0449818
Stddev	.126577	.002731	.0016623	.0005935	.008715	.050480	.0024809
%RSD	1.865321	.0344565	132.1773	6.595620	.5262960	.6942894	5.515423
#1	6.851908	7.926180	-.000634	.0089072	1.661846	7.310759	.0444165
#2	6.639869	7.924083	.001924	.0084554	1.645940	7.214009	.0428323
#3	6.865658	7.929499	.002483	.0096318	1.660066	7.287369	.0476966

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-11 Acquired: 12/23/2024 23:03:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8699301	-.117307	.1004055
Stddev	.0042183	.000258	.0024092
%RSD	.4849040	.2197624	2.399504
#1	.8698967	-.117103	.0982847
#2	.8657286	-.117221	.1030251
#3	.8741651	-.117597	.0999068

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2388.885	31137.61	2547.842	2061.204	1868.381
Stddev	2.033	32.40	24.154	.893	1.393
%RSD	.0851163	.1040526	.9480159	.0433107	.0745484
#1	2388.657	31141.11	2527.691	2061.243	1867.097
#2	2391.022	31168.12	2574.617	2060.292	1868.184
#3	2386.975	31103.61	2541.218	2062.076	1869.862

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-12 Acquired: 12/23/2024 23:06:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1001279	-.047963	.5726876	.0729702	.0378912	71.41938	.7973299
Stddev	.0043021	.003014	.0024217	.0029318	.0008748	.51110	.0034680
%RSD	4.296552	6.285080	.4228599	4.017763	2.308808	.7156311	.4349493
#1	.1012117	-.045063	.5746335	.0757108	.0387854	70.82925	.7934259
#2	.0953876	-.047745	.5734538	.0698788	.0378509	71.72010	.7985097
#3	.1037844	-.051080	.5699756	.0733209	.0370371	71.70879	.8000540

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0069816	.0054391	247.5886	.1282999	.1250098	.2497851	169.3473
Stddev	.0001131	.0000243	1.1049	.0002452	.0007836	.0058864	1.1616
%RSD	1.619586	.4472538	.4462541	.1911490	.6268571	2.356592	.6859485
#1	.0069868	.0054130	246.3540	.1283073	.1252914	.2514117	168.0247
#2	.0070920	.0054432	248.4842	.1285414	.1256137	.2546871	170.2020
#3	.0068660	.0054611	247.9277	.1280511	.1241243	.2432564	169.8152

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.046442	52.76384	.1790385	.0034306	-.934814	.1672522	.6383470
Stddev	.053394	.43683	.0008003	.0014744	.325199	.0074051	.0042889
%RSD	.6635717	.8278935	.4470049	42.97815	34.78758	4.427524	.6718822
#1	7.985637	52.26233	.1799194	.0042641	-.877582	.1749234	.6343943
#2	8.068008	52.96782	.1788398	.0042995	-1.28483	.1601454	.6429074
#3	8.085679	53.06136	.1783562	.0017282	-.64203	.1666878	.6377393

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.826735	9.462802	.0160809	.0066022	1.365753	5.851078	.0581787
Stddev	.057084	.022388	.0001128	.0005971	.002442	.038299	.0012580
%RSD	.9796925	.2365943	.7014392	9.043946	.1788024	.6545673	2.162281
#1	5.864980	9.480587	.0161902	.0062826	1.364101	5.839457	.0568048
#2	5.761120	9.470158	.0160876	.0062330	1.368558	5.893842	.0592742
#3	5.854106	9.437661	.0159649	.0072911	1.364599	5.819936	.0584570

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-12 Acquired: 12/23/2024 23:06:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6949049	.1411396	.0911832
Stddev	.0065879	.0008973	.0028929
%RSD	.9480277	.6357910	3.172601
#1	.6906495	.1419215	.0878482
#2	.7024933	.1413374	.0926863
#3	.6915719	.1401598	.0930151

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2605.989	33855.51	2796.786	2226.061	1806.464
Stddev	10.014	35.46	15.618	3.441	6.005
%RSD	.3842617	.1047246	.5584183	.1545723	.3324330
#1	2604.811	33884.58	2796.942	2223.039	1805.593
#2	2596.617	33816.01	2781.091	2225.340	1800.942
#3	2616.540	33865.94	2812.325	2229.806	1812.857

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-13 Acquired: 12/23/2024 23:10:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1130518	-.044188	.8929207	.0707811	.0367398	70.82330	.8913011
Stddev	.0070725	.008255	.0038546	.0049061	.0009986	.30398	.0036393
%RSD	6.255939	18.68068	.4316847	6.931370	2.717919	.4292053	.4083160
#1	.1178967	-.036308	.8902416	.0653843	.0375791	70.49131	.8873339
#2	.1049359	-.052772	.8973384	.0719875	.0356355	70.89062	.8920845
#3	.1163226	-.043486	.8911821	.0749715	.0370049	71.08798	.8944850

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0070209	.0059412	262.5442	.1442834	.1283041	.3156986	165.9798
Stddev	.0000648	.0000817	.7195	.0004414	.0001000	.0058829	.8058
%RSD	.9228915	1.374712	.2740469	.3059103	.0779129	1.863443	.4854518
#1	.0069501	.0060247	261.8096	.1447573	.1282321	.3180820	165.0808
#2	.0070353	.0059375	262.5754	.1442089	.1284182	.3089980	166.2214
#3	.0070772	.0058615	263.2475	.1438840	.1282619	.3200157	166.6370

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.224273	61.84611	.1776006	.0041925	-1.65856	.1692122	.7127513
Stddev	.025676	.28249	.0001301	.0010385	.28630	.0054535	.0090290
%RSD	.3121956	.4567707	.0732598	24.77069	17.26204	3.222854	1.266779
#1	8.199937	61.70170	.1776224	.0030155	-1.46624	.1651571	.7221271
#2	8.221777	61.66501	.1774610	.0045823	-1.98759	.1754120	.7041146
#3	8.251106	62.17162	.1777184	.0049798	-1.52185	.1670675	.7120122

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.613849	7.550316	.0172211	.0062468	1.191821	5.844110	.1035330
Stddev	.113942	.008399	.0020477	.0001935	.005525	.082858	.0015808
%RSD	2.029666	.1112382	11.89073	3.096910	.4636015	1.417797	1.526830
#1	5.545370	7.556503	.0190333	.0064557	1.196774	5.784772	.1024030
#2	5.745381	7.540755	.0149997	.0062109	1.185862	5.808783	.1053394
#3	5.550796	7.553690	.0176304	.0060738	1.192828	5.938777	.1028566

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-13 Acquired: 12/23/2024 23:10:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6840110	.1490150	.0895263
Stddev	.0035229	.0002240	.0020123
%RSD	.5150395	.1503267	2.247755
#1	.6817862	.1491833	.0916897
#2	.6880728	.1487608	.0877103
#3	.6821740	.1491009	.0891789

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2543.662	33106.55	2751.754	2183.503	1786.160
Stddev	7.625	244.58	16.942	16.897	4.240
%RSD	.2997533	.7387559	.6156666	.7738328	.2373805
#1	2540.339	32925.15	2761.343	2174.960	1784.212
#2	2538.263	33009.79	2761.726	2172.585	1783.244
#3	2552.384	33384.70	2732.193	2202.966	1791.024

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-14 Acquired: 12/23/2024 23:14:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX7D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1051973	-.043341	.8994499	.0647070	.0359378	70.70475	.8883000
Stddev	.0066586	.000616	.0046410	.0011132	.0038340	.24054	.0036879
%RSD	6.329598	1.421402	.5159774	1.720323	10.66828	.3402012	.4151686
#1	.1025972	-.042693	.8948711	.0656741	.0350186	70.43521	.8859659
#2	.1127636	-.043413	.8993280	.0649568	.0401478	70.78146	.8863825
#3	.1002311	-.043918	.9041506	.0634902	.0326471	70.89758	.8925517

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0068883	.0059806	262.3780	.1444198	.1292725	.3142305	165.6493
Stddev	.0000617	.0000734	1.0716	.0004335	.0005565	.0098450	.9407
%RSD	.8951036	1.226798	.4084369	.3001708	.4304577	3.133046	.5678966
#1	.0069155	.0059909	261.4563	.1440477	.1289110	.3030765	164.7395
#2	.0069316	.0060483	262.1237	.1448958	.1299133	.3217086	165.5904
#3	.0068177	.0059026	263.5539	.1443160	.1289933	.3179065	166.6181

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.210890	61.40736	.1784541	.0024461	-1.50736	.1641234	.7213748
Stddev	.031780	.57578	.0006478	.0010269	.42383	.0017827	.0127798
%RSD	.3870424	.9376437	.3629829	41.97989	28.11720	1.086178	1.771586
#1	8.179303	60.75299	.1778354	.0033102	-1.91806	.1649686	.7087465
#2	8.210509	61.63273	.1791274	.0027173	-1.53250	.1653263	.7210771
#3	8.242859	61.83638	.1783996	.0013109	-1.07152	.1620753	.7343009

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.702065	7.577835	.0184782	.0058463	1.202880	5.888700	.1022346
Stddev	.087046	.015356	.0010826	.0006978	.002370	.031838	.0013563
%RSD	1.526573	.2026483	5.858925	11.93622	.1970563	.5406575	1.326645
#1	5.617114	7.576606	.0175283	.0050407	1.204127	5.912551	.1018855
#2	5.698017	7.563130	.0196569	.0062366	1.200147	5.852547	.1037314
#3	5.791065	7.593769	.0182493	.0062616	1.204367	5.901003	.1010870

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-14 Acquired: 12/23/2024 23:14:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX7D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6885892	.1500878	.0877399
Stddev	.0009309	.0010112	.0022147
%RSD	.1351867	.6737398	2.524174
#1	.6880367	.1493522	.0894554
#2	.6896639	.1496702	.0885246
#3	.6880669	.1512409	.0852397

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2552.874	33271.20	2762.903	2187.797	1787.724
Stddev	1.673	46.20	11.243	1.744	3.702
%RSD	.0655502	.1388605	.4069170	.0797095	.2070752
#1	2554.576	33301.38	2754.118	2189.254	1788.809
#2	2551.231	33294.21	2775.573	2188.273	1790.763
#3	2552.817	33218.01	2759.018	2185.865	1783.601

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCV007 Acquired: 12/23/2024 23:18:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV007 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.134247	4.831324	24.73068	4.992627	5.007383	408.2828	10.35343
Stddev	.027762	.008848	.04918	.006287	.009352	5.1234	.13220
%RSD	.5407295	.1831354	.1988426	.1259297	.1867702	1.254876	1.276920
#1	5.102218	4.841540	24.69611	4.985653	5.016253	404.8201	10.28269
#2	5.151427	4.826249	24.70895	4.994368	4.997614	405.8600	10.27164
#3	5.149096	4.826181	24.78698	4.997860	5.008280	414.1683	10.50595

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5068945	2.490818	412.4062	15.57077	2.521134	15.19583	415.1253
Stddev	.0060499	.004434	5.0656	.01722	.001010	.17933	5.2823
%RSD	1.193517	.1780179	1.228293	.1105599	.0400424	1.180144	1.272470
#1	.5025985	2.489304	409.1093	15.58714	2.520594	15.08374	411.5303
#2	.5042717	2.487340	409.8704	15.55282	2.520509	15.10110	412.6555
#3	.5138131	2.495811	418.2389	15.57234	2.522298	15.40267	421.1901

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.30610	410.0791	2.505834	1.285519	406.4521	2.563637	15.25358
Stddev	.19771	5.3061	.004705	.002247	5.6888	.028715	.08240
%RSD	1.291725	1.293930	.1877649	.1747853	1.399621	1.120106	.5402283
#1	15.17772	406.9621	2.502839	1.284043	403.7554	2.544149	15.16306
#2	15.20680	407.0693	2.503406	1.288105	402.6130	2.550148	15.27341
#3	15.53378	416.2057	2.511257	1.284409	412.9877	2.596613	15.32425

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	151.0336	4.992910	4.908480	4.937048	5.027595	4.786693	5.013626
Stddev	1.7537	.006471	.053060	.003736	.006033	.055166	.018508
%RSD	1.161111	.1296049	1.080983	.0756646	.1199916	1.152491	.3691494
#1	149.8822	4.986780	4.870837	4.938755	5.024182	4.744276	5.001812
#2	150.1667	4.992275	4.885438	4.932764	5.024041	4.766744	5.004111
#3	153.0519	4.999675	4.969166	4.939625	5.034560	4.849058	5.034956

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCV007 Acquired: 12/23/2024 23:18:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV007 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	5.035468	4.804044	5.124061
Stddev	.048620	.053194	.068207
%RSD	.9655573	1.107272	1.331120
#1	4.997637	4.768996	5.082307
#2	5.018459	4.777885	5.087105
#3	5.090308	4.865253	5.202772

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1801.077	24541.87	2119.487	1531.261	1572.919
Stddev	8.091	56.41	21.953	11.424	6.372
%RSD	.4492459	.2298455	1.035769	.7460646	.4051138
#1	1792.957	24583.48	2141.356	1543.220	1568.027
#2	1809.139	24477.67	2119.656	1520.460	1580.125
#3	1801.134	24564.47	2097.451	1530.104	1570.606

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCB007 Acquired: 12/23/2024 23:22:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB007 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002994	-.000594	.0038945	.0029315	.0003630	.0463184	-.002042
Stddev	.004184	.002179	.0009598	.0036568	.0025037	.0049582	.000985
%RSD	139.7482	367.0749	24.64465	124.7427	689.7233	10.70460	48.25223
#1	-.007715	.000272	.0047535	-.000903	.0008294	.0512545	-.001973
#2	-.001521	-.003072	.0028585	.003318	.0026007	.0463624	-.001092
#3	.000255	.001020	.0040716	.006379	-.002341	.0413384	-.003059

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000294	.0000336	-.006613	.0002847	-.000212	-.001413	.0532717
Stddev	.0000936	.0000910	.013770	.0008141	.000245	.003089	.0486789
%RSD	318.1756	270.5728	208.2313	285.9917	115.4896	218.5403	91.37847
#1	.0000404	.0001042	-.006604	-.000169	-.000348	-.004491	.1049556
#2	.0001171	.0000656	.007153	.001225	-.000359	-.001436	.0465664
#3	-.000069	-.000069	-.020387	-.000202	.000071	.001687	.0082931

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023871	.0337687	.0007117	-.000585	-2.03230	.0022200	.0091044
Stddev	.0002837	.0300558	.0004696	.001978	.89042	.0037584	.0148191
%RSD	11.88347	89.00503	65.98495	338.4173	43.81363	169.2979	162.7698
#1	.0020778	.0293941	.0007881	.001566	-1.83960	.0008413	.0202332
#2	.0024482	.0657720	.0011384	-.002327	-1.25400	.0064730	-.007717
#3	.0026352	.0061398	.0002085	-.000993	-3.00329	-.000654	.014797

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.00189	.0006716	.0055887	.0007563	-.005203	-.084372	.0004271
Stddev	.18743	.0009926	.0036730	.0007823	.003086	.000104	.0013345
%RSD	18.70739	147.7999	65.72227	103.4365	59.30064	.1227271	312.4174
#1	-1.00829	.0017376	.0040423	.0008349	-.007692	-.084257	.0002395
#2	-1.18604	-.000226	.0097821	-.000062	-.001751	-.084458	.0018455
#3	-.81135	.000503	.0029417	.001496	-.006167	-.084402	-.000804

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCB007 Acquired: 12/23/2024 23:22:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB007 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0003098	.0000895	.0001458
Stddev	.0029751	.0002257	.0014647
%RSD	960.4039	252.3096	1004.460
#1	.0021966	-.000169	.0001639
#2	-.003120	.000190	-.001328
#3	.001853	.000247	.001601

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2074.871	26648.28	2180.870	1758.210	1871.116
Stddev	11.281	158.89	35.485	6.572	10.577
%RSD	.5436758	.5962396	1.627099	.3738147	.5652730
#1	2063.942	26803.65	2221.492	1765.598	1860.228
#2	2086.473	26655.09	2155.919	1756.019	1881.351
#3	2074.196	26486.10	2165.198	1753.012	1871.770

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-13LX5 Acquired: 12/23/2024 23:26:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX7L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0135714	-.005786	.1862854	.0105003	.0078271	16.66757	.2093570
Stddev	.0081804	.003286	.0018408	.0019664	.0017973	.02009	.0002629
%RSD	60.27720	56.79292	.9881576	18.72753	22.96199	.1205054	.1255862
#1	.0211493	-.002015	.1842865	.0096138	.0096587	16.68959	.2092095
#2	.0146662	-.007312	.1879108	.0091332	.0060663	16.66285	.2092009
#3	.0048987	-.008033	.1866590	.0127540	.0077562	16.65026	.2096605

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016540	.0010791	62.73071	.0341532	.0413713	.0766804	39.87276
Stddev	.0001073	.0000848	.08373	.0001286	.0003700	.0008047	.17132
%RSD	6.484280	7.861441	.1334828	.3764371	.8943326	1.049409	.4296715
#1	.0016419	.0010661	62.77672	.0342070	.0409599	.0764321	40.02692
#2	.0017669	.0010016	62.63406	.0340065	.0414772	.0760291	39.90305
#3	.0015534	.0011697	62.78135	.0342462	.0416767	.0775800	39.68832

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.969799	14.72037	.0348892	.0000828	-1.93879	.0387857	.1680300
Stddev	.005599	.06122	.0000230	.0010343	.65785	.0037413	.0128646
%RSD	.2842598	.4158713	.0659128	1249.708	33.93080	9.646098	7.656120
#1	1.963854	14.69900	.0349017	.0012765	-2.40480	.0400672	.1541792
#2	1.974972	14.78941	.0349031	-.000482	-1.18628	.0345720	.1703063
#3	1.970573	14.67270	.0348626	-.000546	-2.22530	.0417178	.1796044

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5117025	1.503852	.0037372	.0036574	.2481820	1.444757	.0223886
Stddev	.0826878	.002893	.0007022	.0006029	.0044032	.006829	.0004793
%RSD	16.15936	.1923539	18.78851	16.48293	1.774184	.4726443	2.140609
#1	.5193677	1.500541	.0031440	.0035884	.2431096	1.439214	.0228464
#2	.4254490	1.505128	.0045125	.0042918	.2504167	1.452385	.0224288
#3	.5902909	1.505888	.0035551	.0030921	.2510198	1.442672	.0218905

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-13LX5 Acquired: 12/23/2024 23:26:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX7L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1683348	.0349702	.0206611
Stddev	.0008760	.0002764	.0028565
%RSD	.5203789	.7903014	13.82572
#1	.1673629	.0351727	.0200237
#2	.1690635	.0350825	.0181771
#3	.1685779	.0346554	.0237825

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2190.493	28464.04	2327.053	1876.148	1854.386
Stddev	6.911	17.72	6.835	10.768	3.386
%RSD	.3154915	.0622540	.2937089	.5739473	.1825799
#1	2183.259	28458.16	2328.621	1880.443	1850.548
#2	2191.194	28450.01	2319.570	1884.106	1855.660
#3	2197.027	28483.95	2332.967	1863.895	1856.950

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-15 Acquired: 12/23/2024 23:30:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX7S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1902649	.0427850	.9453593	.2087987	.1801304	74.48413	4.106924
Stddev	.0045859	.0017487	.0076494	.0045877	.0019991	1.08855	.056621
%RSD	2.410259	4.087225	.8091574	2.197210	1.109790	1.461450	1.378664
#1	.1951043	.0427563	.9505193	.2064941	.1781225	73.22799	4.041726
#2	.1859836	.0410509	.9489878	.2058202	.1801481	75.07327	4.135313
#3	.1897069	.0445480	.9365709	.2140819	.1821205	75.15114	4.143735

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0859195	.1021332	264.0802	.4843777	1.097989	.6911348	167.9075
Stddev	.0008169	.0005679	3.3316	.0005728	.006654	.0118018	2.4358
%RSD	.9508230	.5560810	1.261572	.1182647	.6060213	1.707593	1.450689
#1	.0853206	.1025283	260.2334	.4838455	1.104420	.6799688	165.1028
#2	.0855878	.1023889	265.9691	.4843037	1.098414	.6899522	169.1272
#3	.0868501	.1014823	266.0379	.4849840	1.091132	.7034833	169.4925

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.048547	61.68169	1.154778	.0601469	-.906451	.9753235	1.470320
Stddev	.120009	.94339	.007372	.0000553	.822034	.0127641	.018297
%RSD	1.326278	1.529442	.6383892	.0919499	90.68710	1.308708	1.244389
#1	8.910192	60.60529	1.161031	.0601013	-.771942	.9617498	1.473943
#2	9.110978	62.36478	1.156655	.0602084	-1.78744	.9870841	1.486534
#3	9.124472	62.07502	1.146650	.0601311	-.15997	.9771366	1.450483

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.716243	7.627418	.0239255	.0062007	1.208823	6.133679	.1063904
Stddev	.071028	.029075	.0015807	.0002945	.011373	.062092	.0003290
%RSD	1.242561	.3811941	6.606960	4.749559	.9408674	1.012312	.3092472
#1	5.634593	7.646000	.0249788	.0065163	1.214373	6.064897	.1062311
#2	5.750369	7.642343	.0221078	.0059331	1.216357	6.150546	.1067688
#3	5.763768	7.593911	.0246898	.0061529	1.195740	6.185595	.1061714

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-15 Acquired: 12/23/2024 23:30:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX7S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7039503	.1516547	.0937198
Stddev	.0156897	.0021520	.0030458
%RSD	2.228814	1.418990	3.249908
#1	.6891470	.1491708	.0905318
#2	.7203971	.1529562	.0966000
#3	.7023069	.1528371	.0940277

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2512.642	32838.25	2732.918	2153.315	1757.723
Stddev	11.651	69.96	24.760	9.119	11.027
%RSD	.4636839	.2130589	.9059864	.4234692	.6273269
#1	2505.591	32899.26	2760.091	2147.675	1751.020
#2	2506.245	32761.88	2727.033	2148.435	1751.700
#3	2526.089	32853.60	2711.632	2163.835	1770.450

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-16 Acquired: 12/23/2024 23:33:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0771944	-.033805	.5148124	.0614124	.0341648	63.49179	.7458088
Stddev	.0033420	.001615	.0033809	.0033634	.0007031	.27033	.0042277
%RSD	4.329276	4.776460	.6567201	5.476818	2.057845	.4257748	.5668607
#1	.0739272	-.034505	.5163654	.0583580	.0347744	63.20474	.7416007
#2	.0770495	-.034952	.5171377	.0650171	.0343242	63.74153	.7500558
#3	.0806064	-.031959	.5109340	.0608620	.0333957	63.52910	.7457699

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0061303	.0046537	348.3512	.0977863	.1201596	.2494750	155.8333
Stddev	.0000909	.0000854	1.2666	.0005445	.0009218	.0062167	.7895
%RSD	1.482419	1.835383	.3635924	.5567707	.7671724	2.491910	.5066377
#1	.0061702	.0047420	347.4294	.0978016	.1198851	.2449512	155.3011
#2	.0060263	.0045715	349.7954	.0983230	.1211875	.2565637	156.7404
#3	.0061945	.0046477	347.8288	.0972344	.1194062	.2469100	155.4584

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.128644	64.76375	.1621772	.0019224	-1.54381	.1489358	.5249550
Stddev	.033122	.29729	.0010554	.0007631	.57274	.0025970	.0081458
%RSD	.4074780	.4590442	.6507820	39.69907	37.09897	1.743732	1.551715
#1	8.093206	64.53764	.1631628	.0028029	-1.84138	.1486093	.5321462
#2	8.158822	65.10050	.1623051	.0014522	-.88354	.1516807	.5266100
#3	8.133904	64.65310	.1610636	.0015120	-1.90651	.1465174	.5161088

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.081329	6.100885	.0225430	.0054785	.9957496	5.057933	.0575220
Stddev	.101909	.004079	.0009987	.0006516	.0033041	.000670	.0015766
%RSD	2.005560	.0668621	4.430298	11.89367	.3318170	.0132549	2.740940
#1	4.978776	6.096851	.0227189	.0052425	.9956779	5.058278	.0563869
#2	5.182582	6.100797	.0234420	.0049778	.9924819	5.057160	.0568569
#3	5.082628	6.105008	.0214680	.0062152	.9990889	5.058360	.0593222

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-16 Acquired: 12/23/2024 23:33:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7417377	.2662889	.0896884
Stddev	.0098395	.0017275	.0018346
%RSD	1.326543	.6487470	2.045576
#1	.7374078	.2647563	.0904991
#2	.7529996	.2681610	.0909780
#3	.7348058	.2659493	.0875880

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2533.376	33234.46	2759.793	2186.103	1751.747
Stddev	3.589	45.22	6.957	3.272	3.968
%RSD	.1416779	.1360745	.2520855	.1496850	.2265082
#1	2532.377	33243.80	2762.095	2188.683	1750.178
#2	2530.393	33185.30	2751.977	2182.423	1748.804
#3	2537.359	33274.29	2765.307	2187.204	1756.260

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-17 Acquired: 12/23/2024 23:37:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0622758	-.032289	.2004435	.0530078	.0273583	60.84724	.6522445
Stddev	.0043982	.004081	.0025312	.0007580	.0013974	.28202	.0043569
%RSD	7.062385	12.63943	1.262794	1.429906	5.107647	.4634815	.6679915
#1	.0651124	-.027619	.2021537	.0530712	.0280227	61.17142	.6569517
#2	.0645056	-.035171	.1975357	.0537320	.0257526	60.65843	.6483532
#3	.0572093	-.034077	.2016410	.0522201	.0282994	60.71186	.6514286

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0058842	.0041912	442.3074	.0887788	.1144111	.2291993	145.0795
Stddev	.0001884	.0000823	1.7581	.0003644	.0007137	.0028314	.4689
%RSD	3.200908	1.964330	.3974750	.4104392	.6238000	1.235362	.3232208
#1	.0058176	.0041049	444.3346	.0887494	.1144392	.2314885	145.6175
#2	.0057382	.0041997	441.2010	.0891570	.1151104	.2300763	144.8636
#3	.0060968	.0042689	441.3865	.0884301	.1136838	.2260332	144.7574

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.680761	98.06852	.1460971	.0008927	-2.06698	.1388666	.3767273
Stddev	.022247	.33425	.0003859	.0005851	.25385	.0047837	.0120646
%RSD	.2896490	.3408344	.2641218	65.53762	12.28133	3.444840	3.202476
#1	7.706446	98.44780	.1462691	.0011633	-1.93497	.1408613	.3906251
#2	7.667553	97.94079	.1456551	.0002214	-1.90634	.1334083	.3706108
#3	7.668283	97.81697	.1463671	.0012936	-2.35964	.1423301	.3689459

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.733468	5.785490	.0244095	.0041908	.8539660	4.983425	.0274792
Stddev	.173574	.017128	.0021175	.0002352	.0149541	.031240	.0006836
%RSD	3.666957	.2960538	8.674895	5.611835	1.751133	.6268733	2.487654
#1	4.739107	5.768066	.0226728	.0041384	.8367124	5.018134	.0282677
#2	4.904154	5.786098	.0237874	.0039863	.8619935	4.974578	.0271163
#3	4.557143	5.802307	.0267684	.0044478	.8631922	4.957562	.0270535

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-17 Acquired: 12/23/2024 23:37:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7389716	.2706107	.0833107
Stddev	.0044904	.0011918	.0015024
%RSD	.6076527	.4404006	1.803304
#1	.7432600	.2718646	.0819325
#2	.7343034	.2694928	.0849122
#3	.7393514	.2704747	.0830874

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2520.973	32903.34	2764.575	2159.429	1717.983
Stddev	4.468	155.54	19.362	8.561	3.034
%RSD	.1772370	.4727216	.7003694	.3964323	.1766148
#1	2520.595	33051.39	2745.660	2164.091	1718.870
#2	2525.619	32741.26	2763.710	2149.549	1720.475
#3	2516.706	32917.38	2784.356	2164.646	1714.604

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-18 Acquired: 12/23/2024 23:41:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM32 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0727395	-.032820	.2560489	.0557198	.0322565	53.07639
Stddev	.0025398	.001624	.0024015	.0030024	.0026693	.19913
%RSD	3.491612	4.949432	.9379160	5.388393	8.275249	.3751736
#1	.0740861	-.033089	.2571964	.0529582	.0313102	52.86684
#2	.0698100	-.034293	.2532889	.0589157	.0352700	53.26314
#3	.0743224	-.031078	.2576614	.0552855	.0301892	53.09918

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5336426	.0063546	.0058612	F 998.2274	.1059104	.1375067
Stddev	.0025505	.0000649	.0000390	2.8954	.0009067	.0002425
%RSD	.4779483	1.020607	.6658219	.2900532	.8561229	.1763313
#1	.5310653	.0064037	.0058889	995.0366	.1060409	.1372395
#2	.5361655	.0062811	.0058780	1000.687	.1049455	.1375677
#3	.5336969	.0063791	.0058165	998.958	.1067448	.1377128

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2607554	166.2696	9.151748	106.9040	.2008070	.0006685
Stddev	.0034305	.6502	.051463	.3825	.0007334	.0007628
%RSD	1.315606	.3910473	.5623251	.3578284	.3652431	114.1152
#1	.2645913	165.6795	9.103492	106.6583	.2001056	.0012613
#2	.2596936	166.9666	9.205908	107.3447	.2007466	.0009362
#3	.2579813	166.1628	9.145845	106.7090	.2015687	-.000192

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.39189	.1458494	.5022899	8.718238	8.826072	.0600355
Stddev	.85491	.0038901	.0057988	.260400	.020334	.0035405
%RSD	61.42053	2.667186	1.154469	2.986840	.2303846	5.897344
#1	-.45022	.1502294	.5009319	8.449225	8.832652	.0560447
#2	-2.11925	.1427967	.5086472	8.969072	8.803264	.0627992
#3	-1.60620	.1445220	.4972906	8.736417	8.842302	.0612625

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-18 Acquired: 12/23/2024 23:41:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM32 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042179	1.285832	4.222696	.0307162	.6968246	.7972870
Stddev	.0009611	.004601	.006370	.0027615	.0031585	.0007798
%RSD	22.78651	.3578054	.1508575	8.990348	.4532732	.0978022
#1	.0043415	1.286990	4.219154	.0338133	.6934136	.7966502
#2	.0032010	1.289743	4.218884	.0298245	.6996482	.7970541
#3	.0051113	1.280762	4.230050	.0285107	.6974121	.7981567

Elem	Li6707
Units	ppm
Avg	.1139172
Stddev	.0020772
%RSD	1.823419
#1	.1134782
#2	.1120946
#3	.1161788

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2397.796	31210.51	2680.828	2045.988	1643.529
Stddev	5.894	56.27	10.365	9.472	3.234
%RSD	.2458080	.1802824	.3866158	.4629545	.1967752
#1	2404.601	31264.89	2690.117	2048.195	1647.261
#2	2394.434	31152.53	2669.648	2035.607	1641.542
#3	2394.352	31214.13	2682.718	2054.162	1641.785

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-19 Acquired: 12/23/2024 23:45:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM33 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1348940	-.059929	1.658444	.0847666	.0365731	68.61021	1.160122
Stddev	.0036819	.001903	.003716	.0036062	.0020432	.25673	.004510
%RSD	2.729462	3.175855	.2240678	4.254285	5.586526	.3741933	.3887933
#1	.1317147	-.061509	1.662734	.0880052	.0350902	68.31556	1.155215
#2	.1340391	-.060462	1.656232	.0808805	.0357254	68.72927	1.161066
#3	.1389281	-.057816	1.656365	.0854142	.0389037	68.78581	1.164086

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071057	.0083224	69.44021	.1499478	.1059093	.3268149	163.6125
Stddev	.0001990	.0000604	.12541	.0007380	.0004071	.0039575	.7953
%RSD	2.800077	.7261891	.1806069	.4921617	.3843936	1.210922	.4860929
#1	.0071347	.0083645	69.31906	.1506997	.1063759	.3313838	162.7089
#2	.0068938	.0082531	69.43209	.1492246	.1056267	.3246038	164.2062
#3	.0072885	.0083494	69.56949	.1499190	.1057253	.3244571	163.9223

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.090133	29.46905	.1862052	.0045978	-1.63335	.1864622	1.516135
Stddev	.047086	.25987	.0016733	.0003571	.29347	.0013266	.012020
%RSD	.5179868	.8818248	.8986059	7.767098	17.96731	.7114344	.7927920
#1	9.036129	29.20873	.1877757	.0043193	-1.47228	.1859697	1.514686
#2	9.122588	29.72846	.1844453	.0050004	-1.97208	.1879646	1.528814
#3	9.111682	29.46997	.1863946	.0044737	-1.45568	.1854523	1.504906

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.647834	9.273048	.0276871	.0079168	3.989227	4.627511	.0726590
Stddev	.195361	.019009	.0039146	.0010356	.005974	.069524	.0026168
%RSD	4.203274	.2049946	14.13854	13.08106	.1497433	1.502404	3.601496
#1	4.503818	9.271092	.0241443	.0089537	3.983235	4.624602	.0756716
#2	4.569475	9.255092	.0318896	.0079144	3.989265	4.559487	.0713552
#3	4.870210	9.292959	.0270273	.0068825	3.995182	4.698443	.0709503

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-19 Acquired: 12/23/2024 23:45:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM33 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6867139	-.031584	.0752336
Stddev	.0042480	.000913	.0034310
%RSD	.6185979	2.891006	4.560455
#1	.6869061	-.030530	.0714650
#2	.6908626	-.032118	.0781762
#3	.6823731	-.032104	.0760596

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2516.211	32708.83	2669.117	2149.648	1849.762
Stddev	4.135	117.82	18.575	7.596	2.472
%RSD	.1643409	.3602127	.6959059	.3533533	.1336548
#1	2520.550	32674.44	2666.564	2143.044	1852.191
#2	2512.315	32612.03	2688.836	2147.952	1849.847
#3	2515.769	32840.02	2651.951	2157.949	1847.248

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: PB165713BL Acquired: 12/23/2024 23:49:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS713 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006070	-.000921	-.000533	.0029910	-.000886	.0432311	-.000751
Stddev	.001474	.003209	.003511	.0034392	.003764	.0219231	.000549
%RSD	24.27734	348.3463	659.2770	114.9866	424.9239	50.71151	73.07507
#1	-.004490	.002263	.003492	.0065005	-.004037	.0540056	-.000245
#2	-.006313	-.004155	-.002123	.0028458	-.001903	.0576821	-.001334
#3	-.007408	-.000872	-.002967	-.000373	.003283	.0180056	-.000674

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000452	-.000062	-.041608	-.000825	-.000205	.0072975	.0356184
Stddev	.0001891	.000098	.027730	.000008	.000290	.0057053	.0214346
%RSD	418.6841	156.9756	66.64531	.9191359	141.7357	78.18043	60.17836
#1	-.000102	-.000157	-.016945	-.000820	-.000286	.0033373	.0276691
#2	-.000021	-.000070	-.071625	-.000822	-.000446	.0047183	.0598919
#3	.000258	.000039	-.036255	-.000834	.000117	.0138370	.0192940

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038000	.0693566	.0001695	-.000341	-1.88422	.0040327	-.002348
Stddev	.0008924	.0141617	.0007670	.001363	.30819	.0103215	.013207
%RSD	23.48392	20.41861	452.6166	400.2207	16.35661	255.9440	562.5554
#1	.0046969	.0543769	-.000657	-.001734	-2.21479	.0145374	-.007262
#2	.0037909	.0825262	.000859	-.000276	-1.83306	-.006095	.012612
#3	.0029122	.0711665	.000306	.000989	-1.60480	.003656	-.012393

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.13200	.0021182	-.007279	-.000092	.0000319	-.083721	-.000307
Stddev	.26632	.0014215	.001501	.000904	.0037022	.000986	.000759
%RSD	23.52663	67.10620	20.62599	982.9526	11603.29	1.178176	247.3310
#1	-.89490	.0005533	-.008819	.000942	.0000541	-.083023	-.000983
#2	-1.08096	.0024719	-.005820	-.000485	.0037230	-.083290	-.000452
#3	-1.42016	.0033295	-.007197	-.000732	-.003681	-.084849	.000514

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: PB165713BL Acquired: 12/23/2024 23:49:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS713 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.000817	-.000104	-.013384
Stddev	.002924	.000369	.005252
%RSD	357.7095	353.6170	39.24132
#1	.001233	-.000503	-.007754
#2	-.004166	.000224	-.014249
#3	.000480	-.000034	-.018151

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2108.166	27360.39	2209.134	1806.810	1905.981
Stddev	7.043	31.64	21.789	6.835	5.400
%RSD	.3340666	.1156310	.9863126	.3783063	.2833296
#1	2106.801	27333.04	2190.498	1809.015	1906.168
#2	2115.791	27353.09	2233.091	1812.271	1911.286
#3	2101.906	27395.04	2203.814	1799.144	1900.490

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: PB165713BS Acquired: 12/23/2024 23:53:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS713 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0181460	.0503202	.0183280	.0656115	.1071733	.4236656
Stddev	.0039299	.0013154	.0024671	.0014838	.0017709	.0286119
%RSD	21.65719	2.614036	13.46054	2.261502	1.652337	6.753403
#1	.0226829	.0501774	.0198301	.0665472	.1065216	.3907894
#2	.0159584	.0490820	.0196733	.0639007	.1091777	.4429330
#3	.0157967	.0517011	.0154808	.0663866	.1058207	.4372743

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3980903	.0099442	.0095014	9.703208	.0197961	.0998525
Stddev	.0022642	.0001787	.0000577	.047865	.0002165	.0006068
%RSD	.5687577	1.797216	.6076132	.4932894	1.093703	.6077142
#1	.3969029	.0100353	.0094576	9.655635	.0200107	.1000041
#2	.3966668	.0100590	.0095668	9.751359	.0195777	.1003692
#3	.4007012	.0097383	.0094796	9.702629	.0198001	.0991843

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0511137	.1964867	.0319909	10.03204	.0773334	.0175865
Stddev	.0029841	.0418305	.0006760	.01218	.0001009	.0011916
%RSD	5.838138	21.28922	2.113017	.1214600	.1305277	6.775629
#1	.0493583	.2078163	.0318690	10.03019	.0773339	.0162107
#2	.0545592	.1501584	.0313841	10.02089	.0774341	.0182583
#3	.0494236	.2314854	.0327195	10.04505	.0772322	.0182905

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.762957	.0974732	.1163384	8.236075	.0210925	F -.004871
Stddev	.321438	.0107268	.0146095	.143177	.0008532	.001108
%RSD	4.140660	11.00488	12.55778	1.738408	4.045098	22.74390
#1	8.112895	.0853349	.1083322	8.166504	.0219695	-.004817
#2	7.480845	.1014070	.1074821	8.140978	.0210429	-.003791
#3	7.695130	.1056777	.1332009	8.400743	.0202652	-.006005

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: PB165713BS Acquired: 12/23/2024 23:53:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS713 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0204589	.1703728	F .3748835	.0123817	.1961875	.1987732
Stddev	.0002185	.0033799	.0022318	.0012174	.0012597	.0009870
%RSD	1.068003	1.983831	.5953376	9.832504	.6420742	.4965237
#1	.0202931	.1716371	.3767546	.0135961	.1947570	.1978036
#2	.0203771	.1729383	.3724132	.0111613	.1966747	.1997766
#3	.0207065	.1665430	.3754826	.0123878	.1971307	.1987394

Elem	Li6707
Units	ppm
Avg	F .0152922
Stddev	.0061973
%RSD	40.52614
#1	.0128718
#2	.0106703
#3	.0223345

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2058.629	26722.09	2158.318	1764.588	1856.947
Stddev	12.417	71.39	8.851	1.515	6.140
%RSD	.6031669	.2671529	.4100856	.0858663	.3306565
#1	2071.844	26639.69	2152.107	1763.914	1864.036
#2	2056.837	26761.17	2154.395	1763.526	1853.529
#3	2047.205	26765.40	2168.452	1766.323	1853.277

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-01 Acquired: 12/23/2024 23:57:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLR4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0824564	-.022372	.2922439	.0315016	.0276084	54.95825
Stddev	.0075523	.005105	.0042620	.0031365	.0012555	.05272
%RSD	9.159140	22.81885	1.458373	9.956743	4.547549	.0959188
#1	.0840203	-.020884	.2915079	.0304087	.0278431	54.91041
#2	.0742446	-.018177	.2968260	.0350384	.0262521	55.01476
#3	.0891042	-.028056	.2883978	.0290577	.0287300	54.94959

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7443960	.0058302	.0060878	F 1111.004	.0654220	.1173130
Stddev	.0014847	.0001158	.0001076	2.459	.0004673	.0008958
%RSD	.1994538	1.986697	1.767102	.2213413	.7142138	.7636348
#1	.7432352	.0057023	.0060926	1112.040	.0649508	.1183298
#2	.7438838	.0058603	.0061929	1112.775	.0658852	.1169689
#3	.7460691	.0059280	.0059779	1108.196	.0654300	.1166402

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2037076	139.1522	7.209155	171.1674	.1368889	.0010723
Stddev	.0022056	.4511	.006992	.0870	.0007580	.0004539
%RSD	1.082738	.3241614	.0969936	.0508019	.5537075	42.32580
#1	.2062542	138.9644	7.201813	171.1707	.1361226	.0015390
#2	.2024641	139.6669	7.215736	171.2526	.1376383	.0010456
#3	.2024046	138.8254	7.209915	171.0788	.1369057	.0006324

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1963091	.1656000	.5949802	6.542031	F 11.09294	.0588024
Stddev	.3681860	.0069542	.0024114	.103450	.03282	.0022482
%RSD	187.5542	4.199390	.4052942	1.581314	.2958237	3.823273
#1	-.208358	.1672931	.5970060	6.598806	11.12202	.0611412
#2	.285753	.1579556	.5956216	6.604663	11.09946	.0586086
#3	.511533	.1715513	.5923129	6.422625	11.05736	.0566574

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-01 Acquired: 12/23/2024 23:57:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLR4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043773	2.399750	5.045416	.0384824	1.362841	1.408588
Stddev	.0004647	.012216	.002092	.0023102	.005249	.002082
%RSD	10.61580	.5090465	.0414720	6.003246	.3851787	.1478098
#1	.0040075	2.400645	5.043109	.0394003	1.365915	1.410240
#2	.0042254	2.411493	5.047190	.0358543	1.356780	1.409274
#3	.0048988	2.387111	5.045949	.0401926	1.365829	1.406249

Elem	Li6707
Units	ppm
Avg	.1458764
Stddev	.0030365
%RSD	2.081565
#1	.1477101
#2	.1475478
#3	.1423714

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2350.226	30562.20	2620.311	1991.337	1605.184
Stddev	4.382	123.63	2.788	4.970	3.975
%RSD	.1864576	.4045158	.1063809	.2495686	.2476152
#1	2351.722	30516.59	2617.822	1989.286	1604.875
#2	2345.291	30702.15	2623.323	1997.004	1601.374
#3	2353.664	30467.85	2619.786	1987.721	1609.305

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-02 Acquired: 12/24/2024 0:00:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLR5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0703196	-.007619	.2691494	.0324972	.0259742	53.26607
Stddev	.0049908	.001608	.0016555	.0014688	.0018585	.38356
%RSD	7.097353	21.10114	.6150982	4.519609	7.155280	.7200815
#1	.0684243	-.009454	.2674177	.0337234	.0267244	53.69196
#2	.0665541	-.006942	.2693141	.0328987	.0273403	52.94785
#3	.0759805	-.006460	.2707165	.0308694	.0238578	53.15840

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6843722	.0054309	.0051116	F 1126.094	.0777027	.1310485
Stddev	.0059593	.0000712	.0000521	9.670	.0006375	.0008298
%RSD	.8707748	1.311835	1.019508	.8587378	.8204659	.6332315
#1	.6910647	.0053872	.0050795	1134.880	.0774615	.1301504
#2	.6796395	.0055131	.0050836	1115.733	.0784256	.1317869
#3	.6824125	.0053924	.0051718	1127.668	.0772210	.1312082

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2274886	126.9833	8.445188	136.6570	.1615756	.0005742
Stddev	.0048979	1.0428	.098317	1.6752	.0010770	.0005879
%RSD	2.153027	.8211960	1.164176	1.225808	.6665751	102.3857
#1	.2284993	128.1347	8.557508	138.5724	.1617963	.0001485
#2	.2221642	126.1026	8.374731	135.4656	.1604054	.0012450
#3	.2318023	126.7125	8.403326	135.9331	.1625252	.0003291

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.12381	.1205357	.4923414	11.47728	5.303528	.0794774
Stddev	.14541	.0024368	.0061367	.17752	.016181	.0036101
%RSD	12.93877	2.021662	1.246440	1.546727	.3050965	4.542287
#1	-1.09111	.1224660	.4864496	11.67082	5.305009	.0836234
#2	-.99753	.1213436	.4986968	11.32202	5.286658	.0770290
#3	-1.28278	.1177975	.4918777	11.43899	5.318918	.0777798

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-02 Acquired: 12/24/2024 0:00:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLR5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032630	1.945610	3.639018	.0292820	1.173009	.9465703
Stddev	.0006347	.003409	.067074	.0005297	.007413	.0103546
%RSD	19.45044	.1752042	1.843181	1.808945	.6319851	1.093902
#1	.0038281	1.942837	3.713390	.0290286	1.174480	.9525917
#2	.0025763	1.944577	3.583110	.0289267	1.164971	.9346140
#3	.0033846	1.949416	3.620553	.0298908	1.179577	.9525052

Elem	Li6707
Units	ppm
Avg	.1168444
Stddev	.0043202
%RSD	3.697372
#1	.1123966
#2	.1171122
#3	.1210245

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2315.179	30151.06	2633.014	1965.448	1603.839
Stddev	12.282	98.94	35.499	9.774	9.724
%RSD	.5304954	.3281590	1.348226	.4973054	.6062723
#1	2320.676	30264.02	2594.819	1976.069	1606.259
#2	2323.752	30109.38	2664.997	1963.442	1612.124
#3	2301.109	30079.77	2639.224	1956.832	1593.134

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-03 Acquired: 12/24/2024 0:04:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLR6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0533090	-.001714	.2310055	.0140014	.0163532	48.09073
Stddev	.0072487	.004714	.0024921	.0039354	.0038165	.09238
%RSD	13.59758	275.0666	1.078791	28.10691	23.33804	.1920955
#1	.0455862	.001541	.2334931	.0176970	.0193369	47.99622
#2	.0543750	.000437	.2310145	.0144435	.0120527	48.18082
#3	.0599656	-.007119	.2285090	.0098636	.0176702	48.09516

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5903255	.0050385	.0036350	F 899.5607	.0677678	.1314757
Stddev	.0010109	.0001811	.0000399	1.9849	.0006938	.0005959
%RSD	.1712448	3.595114	1.098753	.2206486	1.023734	.4532659
#1	.5892593	.0051453	.0036503	901.7238	.0682283	.1309823
#2	.5912702	.0051408	.0035897	899.1352	.0669698	.1313070
#3	.5904470	.0048294	.0036651	897.8231	.0681051	.1321378

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2287050	102.7723	7.518915	121.0301	.1700441	.0010915
Stddev	.0031933	.1681	.013438	.1329	.0013169	.0005805
%RSD	1.396249	.1635443	.1787162	.1097835	.7744151	53.17999
#1	.2272571	102.6796	7.504078	121.1259	.1713233	.0012569
#2	.2323657	102.9663	7.530267	121.0859	.1701166	.0004463
#3	.2264921	102.6710	7.522399	120.8784	.1686926	.0015713

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.22876	.0847496	.4116497	11.71809	4.106572	.0844859
Stddev	.55890	.0027516	.0142058	.05368	.004948	.0041682
%RSD	45.48450	3.246777	3.450936	.4580900	.1204959	4.933570
#1	-1.79307	.0852583	.4266794	11.72570	4.112082	.0847804
#2	-.67544	.0817791	.3984441	11.76755	4.102507	.0884990
#3	-1.21777	.0872114	.4098255	11.66101	4.105127	.0801783

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-03 Acquired: 12/24/2024 0:04:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLR6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027094	1.162262	3.519250	.0212407	.3121353	.7276530
Stddev	.0003912	.005875	.034148	.0029895	.0047853	.0023967
%RSD	14.43830	.5054419	.9703172	14.07454	1.533076	.3293743
#1	.0025014	1.156112	3.523503	.0245966	.3129032	.7303801
#2	.0024661	1.167815	3.551072	.0188624	.3070126	.7258817
#3	.0031606	1.162859	3.483174	.0202631	.3164902	.7266972

Elem	Li6707
Units	ppm
Avg	.1137617
Stddev	.0034891
%RSD	3.067066
#1	.1126313
#2	.1109779
#3	.1176759

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2238.273	29086.20	2493.661	1898.399	1619.101
Stddev	9.210	35.70	20.367	8.048	5.537
%RSD	.4114763	.1227296	.8167405	.4239554	.3419499
#1	2246.209	29052.68	2492.252	1889.126	1621.548
#2	2228.174	29082.20	2474.036	1902.504	1612.762
#3	2240.436	29123.74	2514.696	1903.567	1622.992

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-04 Acquired: 12/24/2024 0:08:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLR7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0562234	-.012930	.3019799	.0218873	.0214339	44.66461	.3782434
Stddev	.0022000	.002000	.0016182	.0032772	.0016357	.35432	.0017963
%RSD	3.912999	15.46678	.5358722	14.97290	7.631340	.7933012	.4748993
#1	.0557437	-.014283	.3026751	.0195640	.0229919	45.02470	.3801506
#2	.0543027	-.010633	.3001302	.0256357	.0215796	44.31635	.3765837
#3	.0586236	-.013875	.3031343	.0204621	.0197303	44.65277	.3779960

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049109	.0023511	797.3088	.0761349	.1185925	.3365673	111.9703
Stddev	.0001177	.0000675	5.9071	.0016971	.0002059	.0065295	1.0302
%RSD	2.395999	2.870760	.7408785	2.229118	.1736341	1.940041	.9200479
#1	.0050290	.0023325	803.4908	.0753206	.1186503	.3402317	113.1334
#2	.0047937	.0022949	791.7216	.0749983	.1183639	.3404416	111.1727
#3	.0049099	.0024260	796.7139	.0780857	.1187634	.3290286	111.6048

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.536572	110.3287	.1535729	-.000764	-1.28922	.1241647	.3402198
Stddev	.050448	1.0119	.0004675	.001018	.23562	.0062503	.0174027
%RSD	.9111806	.9171872	.3044365	133.1337	18.27610	5.033915	5.115146
#1	5.592714	111.4893	.1539047	.000045	-1.04149	.1219817	.3201258
#2	5.495044	109.6313	.1530382	-.000432	-1.31569	.1192986	.3504387
#3	5.521959	109.8655	.1537757	-.001906	-1.51049	.1312138	.3500949

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.19005	7.875957	.0817675	.0025037	1.316550	4.066277	.0226474
Stddev	.31879	.029786	.0031529	.0003626	.011677	.031565	.0012763
%RSD	2.848856	.3781834	3.855965	14.48076	.8869107	.7762531	5.635625
#1	11.55567	7.865902	.0852681	.0028480	1.304657	4.083124	.0235835
#2	10.97028	7.852500	.0791510	.0025376	1.316996	4.085845	.0231651
#3	11.04419	7.909469	.0808835	.0021253	1.327997	4.029864	.0211935

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-04 Acquired: 12/24/2024 0:08:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLR7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5799911	.6282807	.0965297
Stddev	.0052003	.0043292	.0032691
%RSD	.8966112	.6890473	3.386591
#1	.5803407	.6321911	.0927590
#2	.5746249	.6236286	.0982623
#3	.5850078	.6290224	.0985678

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2289.848	29812.74	2531.712	1946.071	1693.927
Stddev	2.646	119.94	16.946	4.150	2.537
%RSD	.1155354	.4023110	.6693668	.2132307	.1497958
#1	2287.418	29789.16	2512.567	1950.855	1694.985
#2	2292.666	29942.71	2537.779	1943.453	1695.765
#3	2289.461	29706.33	2544.790	1943.904	1691.032

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-05 Acquired: 12/24/2024 0:12:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLR8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1292015	-.058691	4.572706	.0901483	.0633150	61.02034
Stddev	.0032080	.002950	.020232	.0031565	.0016862	.86223
%RSD	2.482915	5.026709	.4424431	3.501438	2.663200	1.413026
#1	.1329057	-.055575	4.568131	.0873299	.0632743	60.57941
#2	.1273679	-.061441	4.555154	.0935589	.0616495	62.01387
#3	.1273310	-.059056	4.594834	.0895561	.0650212	60.46774

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.432460	.0078700	.0205322	192.2749	.1539328	.1157254
Stddev	.035319	.0001513	.0001821	2.5527	.0011196	.0002087
%RSD	1.451975	1.923040	.8868681	1.327619	.7273270	.1803075
#1	2.413779	.0077146	.0205407	190.7141	.1546906	.1157532
#2	2.473197	.0080170	.0203460	195.2208	.1526468	.1155043
#3	2.410406	.0078785	.0207098	190.8899	.1544610	.1159189

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3651733	192.9073	8.339645	43.92933	.2122132	.0028722
Stddev	.0076578	2.9148	.112164	.60213	.0008197	.0001733
%RSD	2.097039	1.510974	1.344944	1.370684	.3862821	6.034627
#1	.3594691	191.0986	8.276645	43.61793	.2117211	.0028363
#2	.3738768	196.2698	8.469144	44.62340	.2117591	.0027197
#3	.3621740	191.3535	8.273145	43.54667	.2131595	.0030607

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.62239	.1600227	5.779642	10.38021	F 20.39585	.0903868
Stddev	.51528	.0033313	.041094	.27520	.09801	.0034324
%RSD	31.76056	2.081757	.7110124	2.651226	.4805580	3.797505
#1	-1.03722	.1633964	5.767544	10.27327	20.40879	.0865812
#2	-2.00823	.1599363	5.745954	10.69283	20.29200	.0913307
#3	-1.82172	.1567355	5.825426	10.17452	20.48674	.0932485

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-05 Acquired: 12/24/2024 0:12:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLR8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0124680	5.598139	5.034972	.1162840	.6785404	.1604455
Stddev	.0002950	.025491	.086202	.0012641	.0052334	.0018893
%RSD	2.366335	.4553407	1.712056	1.087095	.7712674	1.177567
#1	.0126647	5.592709	5.024706	.1174048	.6725836	.1605977
#2	.0121288	5.575801	5.125848	.1165333	.6823992	.1622542
#3	.0126106	5.625907	4.954364	.1149137	.6806384	.1584847

Elem	Li6707
Units	ppm
Avg	.0748862
Stddev	.0017227
%RSD	2.300415
#1	.0754673
#2	.0762432
#3	.0729481

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2431.457	31571.74	2611.928	2070.424	1787.694
Stddev	3.740	123.37	32.530	9.620	4.474
%RSD	.1538153	.3907657	1.245443	.4646196	.2502889
#1	2431.771	31568.38	2626.763	2068.443	1786.597
#2	2435.030	31696.76	2574.625	2080.879	1792.614
#3	2427.570	31450.08	2634.397	2061.948	1783.869

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-06 Acquired: 12/24/2024 0:16:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLR9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1237052	-.056330	3.017727	.0819914	.0404871	57.67361
Stddev	.0019310	.001202	.031429	.0027132	.0026418	.40535
%RSD	1.560958	2.133296	1.041491	3.309169	6.525060	.7028333
#1	.1232853	-.054964	2.998147	.0847801	.0374976	57.27887
#2	.1220187	-.057226	3.053979	.0818337	.0414560	57.65316
#3	.1258115	-.056801	3.001053	.0793605	.0425076	58.08880

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.312996	.0073793	.0209710	151.2731	.1476943	.1100831
Stddev	.012010	.0001095	.0002736	.9685	.0010111	.0013109
%RSD	.5192526	1.483573	1.304698	.6402022	.6846004	1.190822
#1	2.303130	.0075053	.0208476	150.4041	.1488084	.1087421
#2	2.309489	.0073073	.0212846	151.0981	.1468348	.1113617
#3	2.326370	.0073255	.0207808	152.3171	.1474397	.1101455

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3293651	177.7476	7.437024	37.95603	.2249453	.0011144
Stddev	.0082379	1.2647	.046300	.50197	.0014130	.0015198
%RSD	2.501146	.7115401	.6225615	1.322516	.6281468	136.3820
#1	.3202860	176.4745	7.390186	37.48145	.2238800	.0003150
#2	.3314468	177.7646	7.438118	37.90510	.2265482	.0028670
#3	.3363625	179.0038	7.482767	38.48152	.2244079	.0001611

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.76886	.1528452	5.937156	9.983453	F 20.13704	.0476089
Stddev	.59516	.0080753	.074468	.166552	.18656	.0025615
%RSD	33.64672	5.283329	1.254271	1.668280	.9264561	5.380358
#1	-1.10773	.1552292	5.897440	10.13176	20.03043	.0477713
#2	-1.93694	.1438463	5.890965	10.01533	20.35246	.0449701
#3	-2.26190	.1594601	6.023063	9.80327	20.02823	.0500855

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-06 Acquired: 12/24/2024 0:16:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLR9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0127013	4.620635	4.415555	.1152867	.7448092	.1253888
Stddev	.0008537	.042391	.022324	.0004849	.0061207	.0006686
%RSD	6.721058	.9174175	.5055790	.4206019	.8217834	.5332548
#1	.0136392	4.597715	4.425795	.1149882	.7410554	.1248746
#2	.0119697	4.669551	4.430922	.1158462	.7415000	.1251470
#3	.0124949	4.594640	4.389948	.1150258	.7518721	.1261447

Elem	Li6707
Units	ppm
Avg	.0752311
Stddev	.0025324
%RSD	3.366204
#1	.0759003
#2	.0724313
#3	.0773618

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2445.165	31802.80	2660.773	2089.677	1804.707
Stddev	6.627	205.05	5.396	11.969	9.362
%RSD	.2710428	.6447593	.2028024	.5727524	.5187507
#1	2441.086	31948.96	2663.394	2087.990	1805.646
#2	2441.597	31891.04	2664.358	2102.399	1794.911
#3	2452.812	31568.40	2654.567	2078.641	1813.564

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-07 Acquired: 12/24/2024 0:20:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLS0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1614930	-.065061	2.719836	.1005556	.0493150	70.92981
Stddev	.0057502	.001234	.016308	.0087050	.0022084	.30843
%RSD	3.560649	1.897199	.5995989	8.656876	4.478078	.4348340
#1	.1680602	-.066355	2.710255	.0998779	.0510792	70.67880
#2	.1590575	-.063896	2.710587	.0922093	.0468384	71.27411
#3	.1573613	-.064933	2.738666	.1095797	.0500274	70.83652

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.120546	.0086946	.0229786	186.3735	.1459147	.1271292
Stddev	.008529	.0000995	.0002921	.2532	.0014429	.0005593
%RSD	.4021966	1.143998	1.271147	.1358679	.9888509	.4399428
#1	2.111959	.0086392	.0227551	186.0867	.1448538	.1276552
#2	2.129015	.0088094	.0228717	186.5661	.1453326	.1271906
#3	2.120665	.0086351	.0233091	186.4678	.1475577	.1265417

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3284652	213.2131	9.746547	41.19818	.2139985	.0010760
Stddev	.0050685	.5880	.033695	.16838	.0010310	.0008086
%RSD	1.543082	.2757574	.3457118	.4087095	.4818037	75.15293
#1	.3245600	212.5646	9.715173	41.12295	.2147287	.0004756
#2	.3341929	213.7113	9.782162	41.08053	.2128191	.0019955
#3	.3266426	213.3635	9.742306	41.39106	.2144478	.0007569

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.656411	.1892894	5.136889	10.34891	F 26.16212	.0472473
Stddev	.237533	.0050381	.055528	.04437	.15797	.0035626
%RSD	36.18666	2.661613	1.080962	.4287096	.6037952	7.540378
#1	-.929162	.1882794	5.093213	10.35601	26.12463	.0454239
#2	-.494996	.1947561	5.118074	10.38930	26.02627	.0513525
#3	-.545074	.1848328	5.199380	10.30143	26.33546	.0449654

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-07 Acquired: 12/24/2024 0:20:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLS0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0107017	4.486552	4.268921	.1351998	.6885969	.1460757
Stddev	.0001420	.025262	.013169	.0023263	.0005514	.0009545
%RSD	1.326786	.5630576	.3084895	1.720603	.0800829	.6533920
#1	.0106051	4.473566	4.274723	.1325812	.6889111	.1471372
#2	.0108648	4.470425	4.253847	.1359907	.6879602	.1458017
#3	.0106354	4.515665	4.278192	.1370275	.6889195	.1452882

Elem	Li6707
Units	ppm
Avg	.0996094
Stddev	.0026614
%RSD	2.671835
#1	.1007711
#2	.0965647
#3	.1014925

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2563.684	33552.83	2792.106	2206.211	1808.311
Stddev	8.525	326.52	4.165	24.622	9.727
%RSD	.3325216	.9731451	.1491693	1.116031	.5379220
#1	2568.590	33594.88	2787.772	2211.247	1810.527
#2	2568.622	33856.29	2792.469	2227.925	1816.739
#3	2553.840	33207.32	2796.078	2179.460	1797.667

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-08 Acquired: 12/24/2024 0:23:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLS0D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1600988	-.062105	2.712031	.1036113	.0509205	70.86254
Stddev	.0030777	.003359	.011836	.0007715	.0016360	.40216
%RSD	1.922402	5.408575	.4364223	.7445947	3.212823	.5675252
#1	.1629112	-.065948	2.704648	.1029603	.0505174	70.40173
#2	.1568110	-.060634	2.705762	.1034100	.0495238	71.04316
#3	.1605742	-.059731	2.725683	.1044634	.0527204	71.14272

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.126632	.0089417	.0229564	185.8297	.1479149	.1273663
Stddev	.012674	.0000879	.0001073	.4848	.0003137	.0001640
%RSD	.5959812	.9831319	.4673946	.2608736	.2120748	.1287672
#1	2.115442	.0088709	.0230416	185.4849	.1482620	.1273210
#2	2.124057	.0090401	.0228359	185.6202	.1478309	.1272297
#3	2.140396	.0089140	.0229916	186.3840	.1476517	.1275482

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3237946	213.2263	9.768174	41.18578	.2122222	.0020826
Stddev	.0063926	1.1646	.050553	.16008	.0010926	.0010093
%RSD	1.974277	.5462022	.5175239	.3886659	.5148384	48.46472
#1	.3175091	212.2465	9.721525	41.01096	.2111480	.0012855
#2	.3302892	212.9183	9.761109	41.22120	.2133323	.0017449
#3	.3235855	214.5139	9.821887	41.32518	.2121861	.0032176

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.570723	.1864300	5.114339	10.33187	F 26.04169	.0458484
Stddev	.589952	.0050416	.012677	.09567	.03518	.0032474
%RSD	103.3692	2.704293	.2478766	.9260113	.1351066	7.082843
#1	-1.14860	.1850818	5.127838	10.43513	26.03827	.0441319
#2	-.59417	.1920086	5.112495	10.31423	26.00835	.0438195
#3	.03060	.1821995	5.102685	10.24624	26.07846	.0495938

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-08 Acquired: 12/24/2024 0:23:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLS0D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0109804	4.462130	4.340355	.1346008	.6907411	.1443005
Stddev	.0007600	.009486	.016168	.0007670	.0042297	.0019267
%RSD	6.921817	.2125915	.3725074	.5698582	.6123470	1.335170
#1	.0115056	4.452633	4.338036	.1346997	.6953396	.1464337
#2	.0113267	4.471605	4.357558	.1337891	.6870167	.1437808
#3	.0101089	4.462153	4.325472	.1353135	.6898671	.1426870

Elem	Li6707
Units	ppm
Avg	.0959839
Stddev	.0019712
%RSD	2.053696
#1	.0948975
#2	.0947950
#3	.0982593

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2563.676	33288.25	2780.893	2194.944	1814.175
Stddev	1.648	175.90	7.508	16.728	.486
%RSD	.0642649	.5284133	.2699786	.7621148	.0267995
#1	2562.325	33108.41	2772.362	2176.937	1814.409
#2	2565.512	33459.93	2783.823	2209.999	1814.501
#3	2563.191	33296.40	2786.494	2197.897	1813.616

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-07LX5 Acquired: 12/24/2024 0:27:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLS0L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0309707	-.007417	.5636573	.0204112	.0104671	17.31561	.5139572
Stddev	.0050202	.005244	.0028326	.0045416	.0011942	.08254	.0005680
%RSD	16.20938	70.70199	.5025333	22.25042	11.40912	.4766951	.1105202
#1	.0252138	-.001373	.5643168	.0252610	.0097136	17.22116	.5137076
#2	.0344368	-.010756	.5605531	.0162583	.0118440	17.37390	.5135566
#3	.0332616	-.010122	.5661019	.0197144	.0098436	17.35176	.5146072

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022414	.0045629	45.40648	.0363255	.0390063	.0786650	52.25644
Stddev	.0000348	.0001689	.14635	.0006166	.0001574	.0057604	.15432
%RSD	1.551094	3.701789	.3223131	1.697284	.4035349	7.322669	.2953188
#1	.0022748	.0043699	45.28409	.0361291	.0391266	.0744324	52.08674
#2	.0022054	.0046837	45.36675	.0370163	.0390641	.0763377	52.29421
#3	.0022439	.0046352	45.56859	.0358311	.0388281	.0852249	52.38837

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.383681	10.12188	.0432758	.0011367	-1.39743	.0457016	1.230603
Stddev	.006634	.01922	.0002857	.0010317	.34057	.0103654	.019369
%RSD	.2782894	.1898982	.6601573	90.76214	24.37117	22.68051	1.573912
#1	2.376324	10.14322	.0430725	.0020330	-1.01286	.0562175	1.218673
#2	2.385511	10.11651	.0431523	.0013680	-1.66090	.0354936	1.220186
#3	2.389207	10.10592	.0436024	.0000090	-1.51853	.0453936	1.252951

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.618552	5.422096	.0093142	.0038518	.9213848	1.344306	.0293903
Stddev	.070663	.013248	.0009777	.0007268	.0064364	.025642	.0012699
%RSD	4.365787	.2443345	10.49674	18.86953	.6985545	1.907424	4.320801
#1	1.543114	5.422529	.0093717	.0030344	.9286538	1.336955	.0281598
#2	1.629345	5.408636	.0083090	.0040954	.9190911	1.372820	.0306962
#3	1.683197	5.435122	.0102619	.0044254	.9164094	1.323142	.0293150

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-07LX5 Acquired: 12/24/2024 0:27:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLS0L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1901318	.0346791	.0169583
Stddev	.0073465	.0002637	.0034721
%RSD	3.863871	.7603701	20.47430
#1	.1817655	.0344513	.0165145
#2	.1931006	.0346181	.0206310
#3	.1955292	.0349679	.0137295

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2173.574	28083.99	2286.888	1842.341	1845.030
Stddev	2.671	106.54	14.301	15.195	3.274
%RSD	.1228752	.3793597	.6253406	.8247594	.1774236
#1	2170.887	27984.77	2270.847	1826.319	1844.211
#2	2173.606	28196.58	2291.513	1856.545	1848.635
#3	2176.229	28070.61	2298.303	1844.161	1842.243

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-09 Acquired: 12/24/2024 0:31:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLS0S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2344104	.0198775	2.732257	.2361441	.1945024	74.01272
Stddev	.0034799	.0021723	.005051	.0019530	.0004977	.36487
%RSD	1.484520	10.92860	.1848795	.8270325	.2558844	.4929783
#1	.2323666	.0178170	2.730620	.2347447	.1940804	73.71115
#2	.2324362	.0221467	2.728227	.2383753	.1943757	73.90870
#3	.2384284	.0196689	2.737924	.2353124	.1950513	74.41830

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.276356	.0864286	.1159040	186.1902	.4843770	1.087993
Stddev	.029471	.0002859	.0001246	.4678	.0014385	.002326
%RSD	.5585525	.3308302	.1074875	.2512590	.2969807	.2137593
#1	5.259103	.0866375	.1159811	185.7491	.4842461	1.088848
#2	5.259579	.0865455	.1157603	186.1409	.4830083	1.085360
#3	5.310385	.0861027	.1159707	186.6808	.4858764	1.089770

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6988580	214.4791	10.51731	41.18079	1.165853	.0586769
Stddev	.0100312	1.3766	.05977	.25412	.002085	.0009141
%RSD	1.435365	.6418569	.5683469	.6170803	.1788384	1.557812
#1	.6891508	213.3502	10.46392	41.07601	1.167270	.0578144
#2	.7091844	214.0745	10.50613	40.99581	1.163459	.0585812
#3	.6982388	216.0128	10.58189	41.47054	1.166829	.0596351

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.996302	.9849291	5.900906	10.42497	F 25.90502	.0442504
Stddev	.421650	.0120333	.057156	.04778	.01798	.0043939
%RSD	42.32155	1.221738	.9685910	.4583064	.0694222	9.929682
#1	-1.44812	.9716410	5.835823	10.40328	25.91352	.0393746
#2	-.92750	.9880563	5.923966	10.47975	25.88436	.0454731
#3	-.61328	.9950901	5.942929	10.39189	25.91718	.0479035

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-09 Acquired: 12/24/2024 0:31:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLS0S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0117284	4.458726	4.432104	.1337900	.6997925	.1459196
Stddev	.0004086	.016457	.018806	.0012940	.0041656	.0011754
%RSD	3.484048	.3691055	.4243149	.9671939	.5952650	.8054820
#1	.0120182	4.475875	4.443057	.1337371	.6999384	.1457618
#2	.0112611	4.443060	4.410389	.1351097	.7038832	.1471658
#3	.0119059	4.457242	4.442866	.1325233	.6955558	.1448310

Elem	Li6707
Units	ppm
Avg	.0981405
Stddev	.0023540
%RSD	2.398550
#1	.1007570
#2	.0974698
#3	.0961946

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2548.156	32969.07	2738.722	2162.771	1806.692
Stddev	2.721	89.49	.909	7.819	2.056
%RSD	.1067739	.2714230	.0331854	.3615468	.1137778
#1	2549.989	33051.27	2737.884	2168.266	1808.847
#2	2545.030	32982.20	2739.688	2166.228	1804.753
#3	2549.448	32873.75	2738.594	2153.819	1806.476

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-10 Acquired: 12/24/2024 0:35:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLS1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1262171	-.034306	1.109438	.0689006	.0380579	59.90914
Stddev	.0055968	.001031	.002666	.0030517	.0039620	.41492
%RSD	4.434280	3.004062	.2402799	4.429118	10.41038	.6925780
#1	.1265377	-.033308	1.108178	.0654437	.0370003	59.53461
#2	.1316468	-.035367	1.107636	.0700371	.0347321	59.83766
#3	.1204669	-.034242	1.112500	.0712209	.0424414	60.35516

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.568331	.0067944	.0105654	272.5729	.1137026	.1192628
Stddev	.008457	.0000371	.0001469	1.0888	.0008245	.0002953
%RSD	.5392421	.5464893	1.390265	.3994526	.7251327	.2476017
#1	1.558751	.0067517	.0103959	271.4913	.1130118	.1194087
#2	1.571481	.0068126	.0106539	272.5588	.1134805	.1194567
#3	1.574761	.0068189	.0106465	273.6688	.1146153	.1189229

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1936919	166.7843	10.91664	78.45649	.1540588	.0011963
Stddev	.0081347	.8509	.04104	.34827	.0006191	.0008835
%RSD	4.199788	.5101727	.3759177	.4439007	.4018606	73.84764
#1	.1849765	166.0657	10.87044	78.06334	.1544946	.0022143
#2	.2010835	166.5633	10.93063	78.57978	.1533501	.0006304
#3	.1950156	167.7238	10.94886	78.72634	.1543317	.0007443

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.70677	.1476922	2.005331	7.881883	F 13.69006	.0413719
Stddev	.49831	.0033564	.012185	.148355	.03469	.0028777
%RSD	29.19605	2.272538	.6076062	1.882231	.2534258	6.955711
#1	-2.07887	.1489071	1.991931	8.002641	13.68387	.0444778
#2	-1.14063	.1438975	2.008316	7.716278	13.65888	.0408419
#3	-1.90082	.1502719	2.015745	7.926731	13.72743	.0387961

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-10 Acquired: 12/24/2024 0:35:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLS1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0090440	2.857433	3.910511	.0617410	.6343163	.1482061
Stddev	.0010954	.007792	.009795	.0029774	.0044061	.0005587
%RSD	12.11208	.2726960	.2504912	4.822412	.6946255	.3769627
#1	.0090766	2.850270	3.906352	.0644688	.6373875	.1478793
#2	.0079326	2.856300	3.903481	.0621893	.6292679	.1478878
#3	.0101227	2.865730	3.921699	.0585648	.6362936	.1488512

Elem	Li6707
Units	ppm
Avg	.0789518
Stddev	.0017009
%RSD	2.154333
#1	.0792135
#2	.0771352
#3	.0805066

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2488.525	32265.58	2710.115	2119.132	1778.808
Stddev	6.057	33.04	9.144	6.978	6.167
%RSD	.2433975	.1024101	.3374013	.3292734	.3467123
#1	2485.259	32229.37	2708.891	2111.205	1775.641
#2	2495.514	32273.26	2719.809	2121.843	1785.916
#3	2484.801	32294.10	2701.644	2124.347	1774.868

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-11 Acquired: 12/24/2024 0:39:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLS2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1310211	-.038883	.5225907	.0615733	.0403285	51.94125
Stddev	.0043252	.004394	.0035249	.0030952	.0025798	.37334
%RSD	3.301142	11.30072	.6745090	5.026792	6.397055	.7187818
#1	.1327003	-.038836	.5266319	.0629180	.0373500	51.55724
#2	.1342549	-.043301	.5209899	.0580332	.0418591	51.96357
#3	.1261081	-.034513	.5201502	.0637687	.0417765	52.30293

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.136627	.0061553	.0077175	F 826.9430	.0942055	.1384227
Stddev	.007132	.0001682	.0000661	4.0438	.0016008	.0009266
%RSD	.6274694	2.732984	.8567878	.4890001	1.699214	.6694147
#1	1.128593	.0060291	.0076872	823.3691	.0937063	.1393455
#2	1.139078	.0060905	.0077933	826.1275	.0959964	.1374923
#3	1.142210	.0063463	.0076719	831.3324	.0929139	.1384302

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2008003	185.4969	12.00335	154.0922	.1768541	-.000743
Stddev	.0057192	.9193	.05502	.8216	.0009448	.000581
%RSD	2.848202	.4955987	.4583808	.5331607	.5342323	78.18891
#1	.2013793	184.7066	11.94603	153.3075	.1779236	-.000129
#2	.1948136	185.2782	12.00829	154.0230	.1761329	-.000817
#3	.2062079	186.5058	12.05573	154.9462	.1765057	-.001284

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.794202	.1513595	1.078028	6.525775	F 10.44657	.0517206
Stddev	.180362	.0058079	.012352	.134907	.00390	.0012091
%RSD	22.70988	3.837166	1.145803	2.067287	.0373450	2.337806
#1	-.938389	.1484612	1.092246	6.678430	10.44537	.0504949
#2	-.591962	.1580462	1.069943	6.422574	10.44341	.0517546
#3	-.852256	.1475711	1.071895	6.476322	10.45093	.0529124

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-11 Acquired: 12/24/2024 0:39:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLS2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052947	2.186779	3.421778	.0413496	.5463726	.6687324
Stddev	.0001503	.008163	.013169	.0009126	.0039975	.0027502
%RSD	2.838314	.3732999	.3848613	2.207008	.7316372	.4112513
#1	.0051221	2.179093	3.429601	.0402978	.5457612	.6663141
#2	.0053662	2.185897	3.429160	.0418190	.5427160	.6681590
#3	.0053960	2.195348	3.406574	.0419319	.5506405	.6717240

Elem	Li6707
Units	ppm
Avg	.0852256
Stddev	.0018581
%RSD	2.180220
#1	.0830989
#2	.0865346
#3	.0860434

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2361.340	30620.66	2639.147	1998.019	1647.190
Stddev	4.307	275.90	8.177	11.204	2.778
%RSD	.1823944	.9010289	.3098450	.5607383	.1686668
#1	2362.970	30728.17	2648.444	2000.425	1647.073
#2	2364.593	30307.19	2633.070	1985.808	1650.025
#3	2356.456	30826.63	2635.927	2007.824	1644.472

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCV008 Acquired: 12/24/2024 0:42:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV008 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.833373	4.522037	23.25927	4.707081	4.790634	378.2268
Stddev	.010465	.014283	.05463	.008567	.005767	1.6724
%RSD	.2165077	.3158638	.2348826	.1820075	.1203730	.4421569
#1	4.822189	4.505794	23.19643	4.699817	4.784205	380.1117
#2	4.842926	4.527678	23.29548	4.704898	4.792346	376.9209
#3	4.835005	4.532637	23.28590	4.716529	4.795350	377.6478

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.471658	.4664679	2.350764	381.1893	14.80176	2.425777
Stddev	.038480	.0055498	.003586	1.2566	.08911	.006829
%RSD	.4062608	1.189751	.1525599	.3296656	.6020151	.2815290
#1	9.516088	.4723092	2.346715	382.4855	14.71986	2.418078
#2	9.449059	.4612648	2.353538	379.9763	14.78876	2.431103
#3	9.449827	.4658297	2.352040	381.1062	14.89665	2.428150

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.13152	380.8938	13.97037	376.6506	2.355622	1.193607
Stddev	.06085	1.6866	.06997	1.2034	.001053	.003422
%RSD	.4306038	.4428060	.5008575	.3194929	.0446996	.2866788
#1	14.19643	382.8123	14.04573	377.9798	2.354430	1.191939
#2	14.07576	379.6444	13.90745	376.3369	2.356011	1.191340
#3	14.12237	380.2247	13.95794	375.6352	2.356426	1.197543

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	367.3533	2.347560	14.51919	138.2979	4.693571	4.622523
Stddev	1.3231	.004579	.17262	.7271	.006101	.052538
%RSD	.3601766	.1950722	1.188904	.5257386	.1299859	1.136557
#1	368.8731	2.345175	14.32191	139.1362	4.687245	4.680057
#2	366.4579	2.352840	14.59321	137.8381	4.694050	4.577096
#3	366.7290	2.344665	14.64246	137.9195	4.699419	4.610415

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCV008 Acquired: 12/24/2024 0:42:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV008 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.679767	4.771636	F 4.484018	4.709468	4.720954	4.541372
Stddev	.003527	.010957	.058100	.002949	.035650	.013719
%RSD	.0753585	.2296192	1.295703	.0626138	.7551486	.3020804
#1	4.676523	4.759058	4.544715	4.706176	4.747873	4.540080
#2	4.683520	4.776746	4.428922	4.711865	4.680523	4.528345
#3	4.679257	4.779104	4.478416	4.710365	4.734466	4.555691

Elem	Li6707
Units	ppm
Avg	4.694557
Stddev	.012954
%RSD	.2759440
#1	4.707535
#2	4.681627
#3	4.694508

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1808.993	24736.79	2166.337	1542.119	1582.822
Stddev	.340	196.70	17.820	14.748	1.392
%RSD	.0188213	.7951707	.8225728	.9563416	.0879509
#1	1808.859	24938.23	2148.775	1556.254	1584.177
#2	1809.380	24726.94	2184.404	1543.278	1581.396
#3	1808.740	24545.20	2165.834	1526.827	1582.893

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCB008 Acquired: 12/24/2024 0:46:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB008 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001535	-.000146	.0042003	.0006272	-.000655	.0201799	.0014779
Stddev	.001647	.000954	.0018702	.0017030	.001522	.0219213	.0014212
%RSD	107.3353	652.8979	44.52599	271.5398	232.5462	108.6293	96.16543
#1	.000358	.000892	.0060526	-.000823	.000443	.0401511	.0008939
#2	-.002643	-.000986	.0042354	.000202	-.002392	.0236632	.0030981
#3	-.002319	-.000344	.0023127	.002502	-.000015	-.003274	.0004417

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000256	.0000051	-.010621	-.000285	-.000235	.0041730	.0383940
Stddev	.0001874	.0001427	.014667	.000394	.000263	.0082535	.0316598
%RSD	730.9129	2793.432	138.0972	138.4672	111.9589	197.7831	82.46023
#1	.0000736	.0000758	-.025830	-.000529	-.000417	-.005270	.0310396
#2	.0001844	.0000986	-.009471	-.000495	-.000355	.010010	.0730838
#3	-.000181	-.000159	.003437	.000170	.000067	.007779	.0110587

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033817	.1994229	.0001039	-.000844	-1.61431	.0048779	-.001678
Stddev	.0018054	.1674289	.0001077	.001056	.11477	.0075397	.009280
%RSD	53.38614	83.95671	103.6142	125.0951	7.109793	154.5690	553.1013
#1	.0053015	.0879696	.0001840	-.000897	-1.73783	.0020720	-.007962
#2	.0031253	.3919563	.0001462	.000237	-1.51096	.0134182	-.006052
#3	.0017183	.1183429	-.000018	-.001873	-1.59413	-.000857	.008981

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.10023	.0013728	.0031711	.0008568	-.005958	-.083912	-.000118
Stddev	.25908	.0005809	.0028892	.0000580	.002302	.000810	.000053
%RSD	23.54801	42.31632	91.10845	6.773061	38.63334	.9651670	44.61273
#1	-1.20608	.0011092	.0060417	.0008985	-.007380	-.083191	-.000163
#2	-1.28963	.0020389	.0002637	.0008813	-.007191	-.083758	-.000131
#3	-.80498	.0009704	.0032081	.0007905	-.003302	-.084789	-.000060

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCB008 Acquired: 12/24/2024 0:46:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB008 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0028068	.0004041	.0029738
Stddev	.0051759	.0001830	.0009751
%RSD	184.4054	45.29889	32.78928
#1	-.002540	.0003352	.0019962
#2	.003168	.0006115	.0029787
#3	.007793	.0002654	.0039464

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2070.984	26792.42	2195.180	1762.489	1864.431
Stddev	2.837	152.20	12.496	19.499	3.218
%RSD	.1369968	.5680879	.5692602	1.106352	.1725955
#1	2071.360	26845.06	2185.961	1769.876	1863.725
#2	2067.978	26620.89	2209.403	1740.376	1861.625
#3	2073.614	26911.32	2190.176	1777.216	1867.943

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-12 Acquired: 12/24/2024 0:50:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLS3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1252109	.0024062	.3034841	.0237997	.0227267	34.04063
Stddev	.0063754	.0021651	.0023316	.0016049	.0029675	.42409
%RSD	5.091709	89.98049	.7682769	6.743183	13.05735	1.245841
#1	.1254905	.0048633	.3007946	.0252756	.0201264	33.55136
#2	.1187004	.0007782	.3047226	.0240323	.0259594	34.30303
#3	.1314420	.0015770	.3049351	.0220913	.0220942	34.26750

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7561057	.0038979	.0045055	F 1358.251	.0667397	.1501996
Stddev	.0092556	.0001193	.0001184	24.304	.0012510	.0009012
%RSD	1.224116	3.059244	2.627606	1.789331	1.874499	.5999829
#1	.7455439	.0039097	.0044972	1332.615	.0653250	.1493510
#2	.7628017	.0040108	.0046278	1361.181	.0677002	.1511454
#3	.7599715	.0037731	.0043915	1380.956	.0671939	.1501025

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1900770	123.9102	11.10727	173.9777	.1231174	-.000775
Stddev	.0056289	1.5331	.13224	1.9858	.0010264	.000385
%RSD	2.961396	1.237242	1.190539	1.141416	.8337054	49.69940
#1	.1886136	122.1421	10.95519	171.6853	.1243025	-.001212
#2	.1853243	124.8708	11.19515	175.0773	.1225396	-.000630
#3	.1962931	124.7176	11.17147	175.1704	.1225101	-.000484

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.30958	.0963171	.7604204	6.609928	5.812145	.0681912
Stddev	.79344	.0079368	.0150224	.133423	.018289	.0012336
%RSD	60.58791	8.240305	1.975538	2.018532	.3146605	1.809091
#1	-2.09032	.0871665	.7687478	6.479555	5.791769	.0677030
#2	-.50401	.1013326	.7430785	6.746206	5.817526	.0672765
#3	-1.33439	.1004521	.7694348	6.604024	5.827139	.0695943

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-12 Acquired: 12/24/2024 0:50:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLS3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055787	10.38759	2.965187	.0311022	.4936855	1.124725
Stddev	.0005266	.03101	.062214	.0017173	.0060485	.014261
%RSD	9.439389	.2985140	2.098135	5.521619	1.225162	1.267948
#1	.0050354	10.35574	2.893349	.0298336	.4873060	1.108764
#2	.0060868	10.38937	3.001025	.0304165	.4944134	1.129197
#3	.0056140	10.41768	3.001187	.0330565	.4993370	1.136215

Elem	Li6707
Units	ppm
Avg	.0676418
Stddev	.0031534
%RSD	4.661906
#1	.0648915
#2	.0669504
#3	.0710835

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2239.381	29063.46	2547.113	1891.882	1598.514
Stddev	9.445	41.00	47.173	4.201	7.474
%RSD	.4217857	.1410623	1.852035	.2220687	.4675508
#1	2249.787	29065.97	2601.445	1896.266	1606.450
#2	2237.006	29021.27	2516.575	1891.491	1597.483
#3	2231.350	29103.15	2523.320	1887.891	1591.610

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-13 Acquired: 12/24/2024 0:54:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLS4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0509739	.0061234	.2394122	.0137698	.0175169	34.89340
Stddev	.0028219	.0060648	.0008785	.0023141	.0036870	.03865
%RSD	5.535939	99.04296	.3669405	16.80581	21.04817	.1107598
#1	.0487985	.0111372	.2402430	.0120790	.0133158	34.84946
#2	.0541625	-.000618	.2384927	.0128233	.0190199	34.92213
#3	.0499606	.007851	.2395011	.0164072	.0202150	34.90860

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5459015	.0039874	.0033461	F 1285.878	.0602022	.1149057
Stddev	.0027887	.0000909	.0001061	8.851	.0003506	.0003026
%RSD	.5108492	2.279720	3.170112	.6883575	.5823004	.2633520
#1	.5452133	.0040918	.0032944	1279.826	.0605717	.1152026
#2	.5489699	.0039257	.0032758	1281.771	.0598743	.1149168
#3	.5435213	.0039447	.0034681	1296.037	.0601606	.1145977

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2570450	108.4962	9.262884	234.0880	.1058131	-.000838
Stddev	.0025161	.1624	.010054	.6341	.0006507	.000983
%RSD	.9788381	.1496633	.1085441	.2708624	.6149532	117.2472
#1	.2541801	108.3094	9.255773	233.4411	.1065540	.000296
#2	.2588955	108.5758	9.274387	234.1145	.1055507	-.001378
#3	.2580595	108.6034	9.258493	234.7083	.1053345	-.001433

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.735558	.1084227	.4943611	7.809475	6.777357	.0793342
Stddev	.405341	.0141798	.0096946	.063061	.009272	.0005516
%RSD	55.10660	13.07828	1.961030	.8074953	.1368141	.6952359
#1	-1.05194	.1238382	.4870081	7.856053	6.780283	.0787429
#2	-.27866	.0959360	.4907278	7.834658	6.766974	.0794252
#3	-.87608	.1054940	.5053475	7.737713	6.784813	.0798347

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-13 Acquired: 12/24/2024 0:54:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLS4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031394	2.308185	3.000159	.0274712	.3622312	1.103160
Stddev	.0001410	.002472	.024743	.0019164	.0010399	.003744
%RSD	4.492173	.1070798	.8247328	6.975837	.2870881	.3394307
#1	.0032922	2.310436	3.017234	.0258079	.3627741	1.099488
#2	.0030141	2.308580	2.971783	.0295668	.3610322	1.103018
#3	.0031121	2.305540	3.011460	.0270390	.3628873	1.106973

Elem	Li6707
Units	ppm
Avg	.0792366
Stddev	.0009055
%RSD	1.142802
#1	.0781916
#2	.0797283
#3	.0797899

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2216.778	28630.25	2503.453	1859.000	1583.194
Stddev	4.374	235.58	11.972	16.573	2.175
%RSD	.1972934	.8228200	.4782233	.8915062	.1373647
#1	2211.784	28814.31	2490.068	1869.943	1580.938
#2	2218.625	28711.67	2513.138	1867.125	1585.277
#3	2219.926	28364.76	2507.155	1839.932	1583.368

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-14 Acquired: 12/24/2024 0:58:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLS5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0908186	-.048010	1.195441	.0675160	.0332575	70.42522
Stddev	.0005914	.001926	.002447	.0035903	.0033179	.39848
%RSD	.6511528	4.012436	.2046925	5.317701	9.976394	.5658149
#1	.0913650	-.050209	1.192864	.0681628	.0361390	69.97639
#2	.0901907	-.046619	1.197732	.0636463	.0340033	70.73738
#3	.0909001	-.047203	1.195729	.0707389	.0296302	70.56189

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.379484	.0076748	.0080626	149.6357	.1338819	.1057342
Stddev	.007366	.0001360	.0002268	.6951	.0005644	.0005698
%RSD	.5339361	1.771512	2.813355	.4645053	.4215967	.5388804
#1	1.372620	.0075636	.0081870	148.8342	.1343766	.1058932
#2	1.387265	.0078264	.0078008	150.0008	.1340019	.1062076
#3	1.378567	.0076345	.0082000	150.0722	.1332671	.1051018

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2853112	150.5677	4.483582	46.11279	.2104066	-.001152
Stddev	.0104785	.6358	.015180	.24711	.0003740	.000937
%RSD	3.672643	.4222458	.3385606	.5358788	.1777698	81.35844
#1	.2818467	149.8336	4.466356	45.85770	.2100912	-.000162
#2	.2970831	150.9393	4.494999	46.35105	.2103088	-.002025
#3	.2770036	150.9301	4.489391	46.12963	.2108198	-.001267

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.43436	.1845132	1.698667	13.00830	F 16.07328	.0791688
Stddev	.61184	.0087281	.017531	.09547	.03322	.0016238
%RSD	42.65562	4.730331	1.032045	.7338787	.2066897	2.051086
#1	-1.03891	.1753541	1.678424	12.92839	16.03734	.0772966
#2	-1.12508	.1927345	1.708875	12.98248	16.07966	.0801945
#3	-2.13910	.1854511	1.708701	13.11402	16.10286	.0800152

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-14 Acquired: 12/24/2024 0:58:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLS5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0108510	5.972616	4.567268	.0608223	.7922237	.1256798
Stddev	.0003361	.008045	.032642	.0019020	.0075775	.0004071
%RSD	3.097397	.1346920	.7147033	3.127187	.9564874	.3239143
#1	.0105293	5.966571	4.602327	.0629997	.7909286	.1258510
#2	.0108237	5.981747	4.561723	.0594847	.7853771	.1252151
#3	.0111998	5.969529	4.537753	.0599825	.8003653	.1259734

Elem	Li6707
Units	ppm
Avg	.1203988
Stddev	.0008921
%RSD	.7409346
#1	.1212137
#2	.1205372
#3	.1194457

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2541.274	32830.97	2741.478	2156.528	1810.456
Stddev	11.046	248.67	8.808	15.872	6.998
%RSD	.4346507	.7574302	.3212989	.7360004	.3865332
#1	2528.522	33064.28	2746.848	2170.637	1802.471
#2	2547.891	32859.27	2746.274	2159.604	1815.521
#3	2547.408	32569.36	2731.313	2139.343	1813.377

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-15 Acquired: 12/24/2024 1:02:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLS6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1218421	-.074071	1.358664	.0945694	.0507213	75.53753
Stddev	.0041377	.003715	.003300	.0023920	.0040489	.43100
%RSD	3.395964	5.015430	.2428899	2.529382	7.982718	.5705741
#1	.1232618	-.078056	1.356580	.0960893	.0460680	75.06495
#2	.1171814	-.070704	1.356943	.0958068	.0534405	75.63869
#3	.1250830	-.073452	1.362469	.0918122	.0526553	75.90895

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.540005	.0095623	.0092972	168.1046	.1360119	.1180125
Stddev	.007229	.0002085	.0000774	.9956	.0009314	.0004528
%RSD	.4694462	2.180848	.8325633	.5922237	.6847977	.3837217
#1	1.531899	.0096941	.0093800	167.0856	.1354827	.1183434
#2	1.542330	.0093219	.0092268	168.1532	.1354656	.1181976
#3	1.545786	.0096710	.0092847	169.0749	.1370874	.1174964

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2787584	210.9478	4.767883	49.07136	.2088068	-.002051
Stddev	.0019941	1.6416	.035340	.05918	.0006572	.000406
%RSD	.7153389	.7782000	.7412016	.1206097	.3147377	19.79336
#1	.2765581	209.2204	4.729837	49.01110	.2095442	-.002435
#2	.2792711	211.1354	4.774131	49.07356	.2082830	-.001626
#3	.2804461	212.4875	4.799683	49.12941	.2085933	-.002091

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.14223	.1992526	1.760335	12.73462	F 17.03595	.0756997
Stddev	.49453	.0051928	.025968	.05267	.01056	.0018958
%RSD	43.29520	2.606153	1.475184	.4136023	.0619810	2.504379
#1	-.59880	.2012430	1.740993	12.67416	17.02484	.0742854
#2	-1.56585	.2031557	1.789849	12.77054	17.03716	.0778538
#3	-1.26203	.1933590	1.750163	12.75917	17.04585	.0749598

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-15 Acquired: 12/24/2024 1:02:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLS6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0119660	5.296448	4.047483	.0704679	.8531269	.0851113
Stddev	.0007151	.017105	.052099	.0009162	.0101121	.0008995
%RSD	5.975837	.3229551	1.287202	1.300168	1.185299	1.056840
#1	.0116688	5.282210	4.093270	.0696631	.8414642	.0840748
#2	.0127818	5.291713	3.990796	.0714650	.8594480	.0855706
#3	.0114475	5.315423	4.058383	.0702757	.8584686	.0856883

Elem	Li6707
Units	ppm
Avg	.1298389
Stddev	.0036535
%RSD	2.813861
#1	.1298152
#2	.1261973
#3	.1335041

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2576.808	33240.77	2786.592	2183.178	1804.748
Stddev	3.571	116.19	22.103	12.302	1.886
%RSD	.1385641	.3495430	.7931846	.5634712	.1045207
#1	2574.283	33355.45	2778.357	2197.375	1805.811
#2	2580.893	33123.12	2811.630	2175.671	1805.863
#3	2575.248	33243.74	2769.789	2176.488	1802.570

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-16 Acquired: 12/24/2024 1:06:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLS7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1230770	-.046304	1.088150	.0654179	.0344971	70.57757
Stddev	.0034864	.001099	.001896	.0039811	.0028715	.46394
%RSD	2.832718	2.373478	.1742735	6.085675	8.323820	.6573504
#1	.1270532	-.046721	1.088869	.0608373	.0372551	70.04255
#2	.1216345	-.047134	1.089583	.0673721	.0347119	70.82156
#3	.1205433	-.045058	1.086000	.0680443	.0315242	70.86862

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.382537	.0078239	.0069069	116.9006	.1224494	.1131866
Stddev	.007536	.0000197	.0000600	.6779	.0010027	.0004314
%RSD	.5450983	.2517525	.8682105	.5798982	.8188638	.3811692
#1	1.374203	.0078337	.0069297	116.1556	.1233977	.1136339
#2	1.388872	.0078013	.0069521	117.4812	.1214000	.1127730
#3	1.384536	.0078368	.0068389	117.0650	.1225505	.1131529

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2302331	147.8881	4.069097	39.56248	.1753256	-.002241
Stddev	.0076206	1.2824	.037611	.26502	.0004962	.000669
%RSD	3.309945	.8671621	.9243133	.6698761	.2830292	29.85437
#1	.2301980	146.4983	4.027048	39.25912	.1753302	-.002550
#2	.2378712	149.0257	4.099531	39.74902	.1748271	-.002701
#3	.2226301	148.1403	4.080712	39.67930	.1758195	-.001474

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.35545	.1828858	1.257741	9.077726	F 13.86375	.0439153
Stddev	.63296	.0036065	.010510	.012392	.01053	.0015436
%RSD	46.69748	1.971971	.8356155	.1365049	.0759239	3.514843
#1	-.78352	.1861227	1.264194	9.083088	13.86635	.0421717
#2	-1.24732	.1835364	1.245613	9.063556	13.85216	.0451073
#3	-2.03551	.1789983	1.263415	9.086533	13.87273	.0444669

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-16 Acquired: 12/24/2024 1:06:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLS7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0230703	3.068160	3.723717	.0548114	.7297778	.1006581
Stddev	.0007921	.008431	.006405	.0021637	.0066649	.0007830
%RSD	3.433222	.2747994	.1720070	3.947518	.9132720	.7778299
#1	.0236862	3.064362	3.720036	.0570261	.7222185	.1014312
#2	.0221769	3.062295	3.720001	.0527027	.7323073	.0998656
#3	.0233479	3.077822	3.731113	.0547055	.7348076	.1006775

Elem	Li6707
Units	ppm
Avg	.1250302
Stddev	.0038280
%RSD	3.061620
#1	.1264013
#2	.1207055
#3	.1279837

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2666.713	34442.89	2878.346	2269.392	1894.624
Stddev	4.000	125.26	6.634	14.719	3.727
%RSD	.1500155	.3636810	.2304952	.6485726	.1967244
#1	2667.670	34300.03	2875.098	2253.173	1893.884
#2	2670.148	34494.72	2885.979	2273.105	1898.666
#3	2662.320	34533.92	2873.962	2281.900	1891.323

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-17 Acquired: 12/24/2024 1:10:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLS8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1054446	-.051424	.4109866	.0640765	.0355762	75.26418
Stddev	.0029205	.004976	.0024875	.0011110	.0005096	.33412
%RSD	2.769662	9.677156	.6052530	1.733832	1.432297	.4439361
#1	.1022628	-.056137	.4132911	.0642964	.0353750	74.88349
#2	.1060680	-.046221	.4113190	.0628721	.0361556	75.40024
#3	.1080031	-.051915	.4083495	.0650612	.0351979	75.50881

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.122644	.0078430	.0049506	213.1584	.1167888	.1125428
Stddev	.003635	.0001908	.0000591	1.0319	.0002221	.0005467
%RSD	.3237611	2.432744	1.194088	.4840882	.1901302	.4857973
#1	1.119069	.0077863	.0050110	211.9694	.1168594	.1131463
#2	1.126335	.0080557	.0048928	213.6867	.1165401	.1124016
#3	1.122527	.0076870	.0049481	213.8192	.1169670	.1120806

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1168119	160.8305	3.769765	69.26017	.1448483	-.002497
Stddev	.0064915	.7150	.021320	.34996	.0013458	.001329
%RSD	5.557185	.4445761	.5655393	.5052783	.9290935	53.22296
#1	.1226773	160.0400	3.745246	68.85658	.1459298	-.003322
#2	.1098373	161.0193	3.780116	69.47947	.1452738	-.000964
#3	.1179211	161.4321	3.783932	69.44446	.1433411	-.003204

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.41424	.2002113	.7776318	6.212172	F 12.80820	.0420233
Stddev	.31583	.0013600	.0110871	.025070	.02054	.0011489
%RSD	22.33176	.6792955	1.425756	.4035570	.1603577	2.733940
#1	-1.11510	.2016804	.7691779	6.234558	12.80772	.0406967
#2	-1.74445	.1999573	.7901848	6.216874	12.82897	.0426891
#3	-1.38318	.1989961	.7735328	6.185085	12.78790	.0426841

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-17 Acquired: 12/24/2024 1:10:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLS8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0061060	1.897087	4.097098	.0335333	.6662937	.0923066
Stddev	.0006474	.007350	.034763	.0021496	.0028277	.0002917
%RSD	10.60262	.3874545	.8484738	6.410271	.4243873	.3160324
#1	.0059961	1.888612	4.093571	.0357243	.6637163	.0920680
#2	.0055205	1.901709	4.133489	.0314277	.6658465	.0926318
#3	.0068013	1.900941	4.064232	.0334480	.6693183	.0922199

Elem	Li6707
Units	ppm
Avg	.1417986
Stddev	.0016939
%RSD	1.194557
#1	.1404129
#2	.1436869
#3	.1412961

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2581.416	33383.03	2787.386	2193.193	1780.928
Stddev	4.485	146.30	9.559	12.450	5.434
%RSD	.1737391	.4382524	.3429249	.5676577	.3050996
#1	2578.267	33281.28	2778.287	2180.239	1777.576
#2	2579.429	33550.69	2786.526	2205.069	1778.010
#3	2586.551	33317.11	2797.346	2194.273	1787.197

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-18 Acquired: 12/24/2024 1:13:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLS9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0631106	-.022774	.2412999	.0318616	.0283435	51.91771
Stddev	.0031164	.003633	.0034392	.0056011	.0031259	.45533
%RSD	4.937960	15.95000	1.425261	17.57957	11.02869	.8770284
#1	.0602568	-.018710	.2393959	.0290845	.0250422	51.39444
#2	.0664359	-.023910	.2392339	.0281918	.0287302	52.13502
#3	.0626392	-.025703	.2452700	.0383087	.0312580	52.22368

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5578644	.0055977	.0034658	F 862.7755	.0910715	.1063082
Stddev	.0040054	.0000720	.0001713	6.0069	.0005743	.0011377
%RSD	.7179884	1.286488	4.944072	.6962328	.6305988	1.070142
#1	.5532618	.0055848	.0036244	855.8524	.0917250	.1050001
#2	.5597717	.0055330	.0032841	865.8679	.0906469	.1068576
#3	.5605597	.0056753	.0034890	866.6062	.0908427	.1070668

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1046134	132.7732	4.609426	247.5908	.1162120	-.002678
Stddev	.0034723	1.1288	.035596	1.9164	.0004262	.000824
%RSD	3.319127	.8501353	.7722512	.7740210	.3667686	30.75494
#1	.1060711	131.4723	4.568431	245.3827	.1163842	-.001753
#2	.1071191	133.4924	4.627346	248.5682	.1157267	-.003331
#3	.1006499	133.3550	4.632501	248.8214	.1165253	-.002949

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.552543	.1570936	.6993052	4.188109	F 10.02342	.0429039
Stddev	.822452	.0050759	.0035471	.258040	.00659	.0004908
%RSD	148.8486	3.231126	.5072354	6.161248	.0657021	1.143857
#1	-1.05501	.1629425	.6959123	4.065753	10.02286	.0431329
#2	-.99921	.1544975	.6990148	4.484566	10.01713	.0432382
#3	.39660	.1538409	.7029886	4.014008	10.03027	.0423405

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-18 Acquired: 12/24/2024 1:13:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLS9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047364	1.666772	3.581525	.0742981	.7914935	.5649145
Stddev	.0007880	.004796	.023146	.0017921	.0091860	.0057431
%RSD	16.63803	.2877548	.6462699	2.412057	1.160597	1.016624
#1	.0056123	1.663736	3.572730	.0760156	.7838348	.5591087
#2	.0040848	1.664280	3.607780	.0744389	.7889675	.5650420
#3	.0045121	1.672302	3.564065	.0724397	.8016783	.5705927

Elem	Li6707
Units	ppm
Avg	.1045759
Stddev	.0041661
%RSD	3.983847
#1	.0998991
#2	.1078901
#3	.1059386

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2346.602	30541.82	2642.250	1986.447	1618.606
Stddev	4.729	162.28	12.014	14.147	3.515
%RSD	.2015465	.5313265	.4546883	.7121844	.2171726
#1	2341.295	30692.92	2656.000	1997.742	1614.621
#2	2350.371	30562.24	2636.966	1991.020	1619.931
#3	2348.140	30370.30	2633.782	1970.579	1621.266

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-19 Acquired: 12/24/2024 1:17:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLT0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0540544	-.007758	.2115062	.0183347	.0236528	43.13718
Stddev	.0044996	.003133	.0048670	.0089819	.0005125	1.27459
%RSD	8.324239	40.38115	2.301119	48.98875	2.166683	2.954735
#1	.0568547	-.009132	.2059021	.0117659	.0233201	42.77882
#2	.0488641	-.004173	.2139433	.0146683	.0233954	42.08014
#3	.0564444	-.009968	.2146733	.0285698	.0242430	44.55259

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4747815	.0047613	.0040972	F 1025.321	.0774527	.1077308
Stddev	.0125828	.0001905	.0001081	27.317	.0006204	.0009683
%RSD	2.650221	4.000113	2.637311	2.664245	.8009929	.8988048
#1	.4721224	.0048132	.0039725	1018.414	.0768711	.1070131
#2	.4637408	.0045502	.0041546	1002.121	.0773814	.1073471
#3	.4884813	.0049204	.0041644	1055.429	.0781057	.1088321

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1216729	117.6117	5.542642	200.9406	.1171928	-.002339
Stddev	.0049725	3.3456	.163815	5.8139	.0011201	.001229
%RSD	4.086771	2.844636	2.955545	2.893359	.9558096	52.56514
#1	.1206187	116.5451	5.493209	199.4382	.1178767	-.001720
#2	.1173120	114.9295	5.409236	196.0254	.1159001	-.003754
#3	.1270879	121.3606	5.725481	207.3583	.1178016	-.001541

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.603514	.1263653	.5994974	4.755483	8.129765	.0584450
Stddev	.384162	.0026507	.0153253	.125880	.009552	.0085708
%RSD	63.65413	2.097688	2.556364	2.647048	.1174889	14.66476
#1	-.336232	.1260997	.6020236	4.636057	8.127206	.0567885
#2	-1.04375	.1238573	.5830659	4.743440	8.121753	.0508234
#3	-.43056	.1291388	.6134026	4.886951	8.140335	.0677232

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-19 Acquired: 12/24/2024 1:17:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLT0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041570	1.672015	3.702823	.0272331	.6984032	.7765066
Stddev	.0009372	.008591	.083054	.0026980	.0198078	.0225516
%RSD	22.54493	.5138001	2.243003	9.906907	2.836158	2.904239
#1	.0033930	1.663569	3.680681	.0291121	.6895064	.7720815
#2	.0038754	1.680744	3.633084	.0241416	.6846037	.7564955
#3	.0052028	1.671733	3.794705	.0284456	.7210995	.8009428

Elem	Li6707
Units	ppm
Avg	.0846637
Stddev	.0044063
%RSD	5.204474
#1	.0833333
#2	.0810760
#3	.0895819

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2279.501	29763.13	2620.920	1939.232	1584.729
Stddev	12.142	128.31	54.161	12.500	7.525
%RSD	.5326608	.4310993	2.066495	.6445832	.4748301
#1	2284.158	29735.25	2631.194	1937.565	1588.278
#2	2288.626	29903.08	2669.209	1952.482	1589.823
#3	2265.720	29651.05	2562.358	1927.650	1576.086

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-20 Acquired: 12/24/2024 1:21:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLT1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0424484	.0133880	.1652136	.0063068	.0185926	33.24700
Stddev	.0060442	.0067952	.0014193	.0091781	.0057508	.41178
%RSD	14.23891	50.75566	.8590500	145.5281	30.93063	1.238539
#1	.0371720	.0209244	.1639036	-.003209	.0240300	32.77848
#2	.0411304	.0077286	.1667214	.007024	.0191752	33.41104
#3	.0490428	.0115110	.1650158	.015105	.0125727	33.55147

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5987832	.0044307	.0050722	F 1778.283	.0573179	.1201605
Stddev	.0070197	.0000655	.0000678	15.031	.0005117	.0002018
%RSD	1.172326	1.478502	1.336325	.8452422	.8927570	.1679280
#1	.5907359	.0043574	.0051504	1761.852	.0578725	.1203924
#2	.6036474	.0044509	.0050325	1781.659	.0572173	.1200644
#3	.6019665	.0044837	.0050336	1791.339	.0568640	.1200247

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1655181	103.7979	8.064800	130.1767	.1199093	-.000890
Stddev	.0021331	1.2131	.109154	1.8578	.0008414	.001289
%RSD	1.288745	1.168755	1.353462	1.427148	.7016766	144.9138
#1	.1630591	102.4318	7.941448	128.0422	.1207988	-.000978
#2	.1668705	104.2126	8.104052	131.0581	.1198030	-.002132
#3	.1666248	104.7494	8.148900	131.4297	.1191262	.000442

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-2.25150	.0690155	.4997562	8.117672	3.070971	.0823992
Stddev	.47000	.0094018	.0220684	.348437	.009699	.0018168
%RSD	20.87503	13.62279	4.415833	4.292322	.3158196	2.204887
#1	-1.71185	.0637102	.5215742	7.716511	3.079036	.0803935
#2	-2.57119	.0798709	.5002486	8.344913	3.060209	.0839347
#3	-2.47145	.0634654	.4774457	8.291591	3.073669	.0828694

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-20 Acquired: 12/24/2024 1:21:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLT1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017691	2.600184	3.233303	.0302676	.2699280	1.994133
Stddev	.0010120	.008682	.043479	.0024894	.0024259	.018841
%RSD	57.20634	.3339149	1.344730	8.224733	.8987087	.9448243
#1	.0006999	2.601709	3.183474	.0278173	.2675605	1.972381
#2	.0027121	2.590840	3.263535	.0301910	.2724083	2.004680
#3	.0018953	2.608003	3.252898	.0327944	.2698152	2.005340

Elem	Li6707
Units	ppm
Avg	.0804137
Stddev	.0037427
%RSD	4.654362
#1	.0810689
#2	.0763866
#3	.0837856

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2150.627	27813.09	2461.942	1813.852	1553.574
Stddev	4.452	150.21	12.757	9.706	5.205
%RSD	.2070130	.5400756	.5181855	.5350779	.3350057
#1	2149.872	27664.44	2476.673	1805.389	1554.106
#2	2155.408	27964.81	2454.657	1824.446	1558.492
#3	2146.600	27810.02	2454.496	1811.723	1548.124

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-21 Acquired: 12/24/2024 1:25:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLT2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1250978	-.061122	2.303018	.0856017	.0464137	62.55844
Stddev	.0039352	.002667	.005621	.0040853	.0009302	.26730
%RSD	3.145660	4.364104	.2440673	4.772470	2.004070	.4272757
#1	.1240326	-.062229	2.299689	.0897726	.0472904	62.25381
#2	.1294558	-.063057	2.299858	.0816077	.0454380	62.75374
#3	.1218048	-.058079	2.309508	.0854248	.0465128	62.66778

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.643440	.0078346	.0110897	176.0320	.1562098	.1056805
Stddev	.003600	.0001453	.0000791	.3487	.0007286	.0008990
%RSD	.2190753	1.854373	.7134009	.1981054	.4664410	.8506670
#1	1.639640	.0078768	.0111254	175.6717	.1561376	.1056971
#2	1.646800	.0076729	.0111447	176.0564	.1555199	.1047733
#3	1.643881	.0079542	.0109990	176.3679	.1569718	.1065711

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3733179	189.6056	7.345125	40.88943	.1992234	-.002209
Stddev	.0088804	1.0619	.018493	.18377	.0013463	.000386
%RSD	2.378782	.5600713	.2517771	.4494250	.6757597	17.48245
#1	.3732094	188.3801	7.324308	40.69857	.1997344	-.002321
#2	.3644923	190.2560	7.351412	40.90454	.1976964	-.002526
#3	.3822521	190.1806	7.359656	41.06517	.2002393	-.001779

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.71529	.1936744	2.397394	7.463621	F 22.70844	.0725215
Stddev	.21723	.0032988	.017515	.110436	.05333	.0023922
%RSD	12.66420	1.703254	.7305968	1.479658	.2348316	3.298639
#1	-1.55040	.1964641	2.388471	7.580994	22.71633	.0713628
#2	-1.63402	.1945257	2.386137	7.361763	22.65161	.0709292
#3	-1.96143	.1900334	2.417574	7.448107	22.75738	.0752724

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-21 Acquired: 12/24/2024 1:25:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLT2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0163503	6.573847	3.903800	.1334884	.9703912	.1572872
Stddev	.0004214	.016760	.009154	.0009144	.0069408	.0009975
%RSD	2.577420	.2549428	.2344985	.6849937	.7152590	.6342174
#1	.0168281	6.581060	3.904787	.1335115	.9633966	.1582253
#2	.0161915	6.554689	3.912421	.1325627	.9705000	.1562393
#3	.0160314	6.585793	3.894192	.1343911	.9772769	.1573971

Elem	Li6707
Units	ppm
Avg	.0682942
Stddev	.0043369
%RSD	6.350290
#1	.0652971
#2	.0732672
#3	.0663183

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2407.834	31086.15	2603.792	2045.433	1823.347
Stddev	11.077	210.76	8.763	12.582	9.263
%RSD	.4600397	.6779763	.3365481	.6151327	.5080242
#1	2413.961	31170.82	2612.912	2042.259	1827.143
#2	2414.495	31241.41	2603.027	2059.298	1830.110
#3	2395.047	30846.22	2595.436	2034.742	1812.789

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-22 Acquired: 12/24/2024 1:29:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLT3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1303711	-.067317	1.974927	.0907027	.0467889	54.41992
Stddev	.0023688	.005866	.005515	.0018463	.0025808	.21899
%RSD	1.816946	8.714528	.2792750	2.035587	5.515925	.4024156
#1	.1288643	-.060935	1.973935	.0899820	.0438369	54.18297
#2	.1331014	-.072474	1.969975	.0893254	.0479111	54.46190
#3	.1291477	-.068543	1.980872	.0928007	.0486186	54.61489

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.408020	.0076075	.0105995	187.5077	.1359739	.1016473
Stddev	.004208	.0001454	.0001830	.5949	.0007191	.0006031
%RSD	.2988823	1.910869	1.725981	.3172463	.5288602	.5932866
#1	1.403163	.0077715	.0107240	186.8412	.1360873	.1012629
#2	1.410571	.0075567	.0106851	187.6971	.1352048	.1013367
#3	1.410326	.0074943	.0103895	187.9848	.1366295	.1023424

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2804171	200.8365	7.246900	47.90964	.1844354	-.001550
Stddev	.0050112	.6085	.023134	.27993	.0002893	.001768
%RSD	1.787041	.3029855	.3192234	.5842923	.1568314	114.0943
#1	.2781574	200.1345	7.220300	47.58791	.1843538	-.000285
#2	.2861601	201.1608	7.262320	48.04346	.1847567	-.000795
#3	.2769336	201.2142	7.258079	48.09755	.1841957	-.003571

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.621565	.1704843	2.067252	5.480579	F 17.51900	.0631086
Stddev	1.284464	.0106727	.010266	.100737	.00475	.0014369
%RSD	206.6500	6.260227	.4965999	1.838067	.0271227	2.276927
#1	-2.09066	.1755935	2.078851	5.364356	17.52364	.0642722
#2	-.06356	.1582174	2.059334	5.534565	17.51923	.0615024
#3	.28953	.1776420	2.063572	5.542816	17.51414	.0635512

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5091-22 Acquired: 12/24/2024 1:29:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLT3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0187344	5.245976	3.616623	.1231388	.8296288	.1079967
Stddev	.0006367	.011937	.015684	.0020238	.0052800	.0004657
%RSD	3.398616	.2275541	.4336711	1.643525	.6364250	.4312521
#1	.0181151	5.239237	3.605827	.1208149	.8235594	.1075677
#2	.0193872	5.238932	3.609429	.1240874	.8331631	.1079305
#3	.0187009	5.259759	3.634614	.1245141	.8321639	.1084920

Elem	Li6707
Units	ppm
Avg	.0563891
Stddev	.0006633
%RSD	1.176332
#1	.0557770
#2	.0570939
#3	.0562964

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2370.850	30745.74	2572.730	2028.406	1821.821
Stddev	7.144	109.66	5.646	10.236	5.443
%RSD	.3013318	.3566514	.2194585	.5046265	.2987621
#1	2374.504	30619.64	2572.447	2016.949	1825.302
#2	2375.428	30798.87	2578.512	2031.620	1824.612
#3	2362.618	30818.71	2567.230	2036.650	1815.548

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: PB165740BL Acquired: 12/24/2024 1:33:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS740 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002290	.0017081	-.002195	.0038747	-.001374	.0394015	.0009004
Stddev	.004627	.0031681	.002153	.0039732	.003784	.0059978	.0023264
%RSD	202.0716	185.4747	98.07822	102.5428	275.4008	15.22239	258.3773
#1	-.006943	.0005343	-.001818	.0031691	.001248	.0428706	-.001114
#2	-.002236	.0052957	-.000256	.0003015	-.005713	.0324758	.003446
#3	.002310	-.000706	-.004511	.0081534	.000342	.0428581	.000369

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000077	-.000160	.0017413	-.000332	-.000199	.0028520	.0162508
Stddev	.000095	.000087	.0248812	.000357	.000827	.0025245	.0290041
%RSD	124.1309	54.43592	1428.927	107.5593	416.2515	88.51728	178.4781
#1	-.000009	-.000224	-.016960	-.000399	.000710	-.000033	.0193023
#2	-.000186	-.000061	.029980	.000054	-.000398	.004657	-.014158
#3	-.000036	-.000196	-.007796	-.000650	-.000908	.003932	.043608

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034560	.0251098	.0003606	-.000760	-1.02998	.0095074	.0027004
Stddev	.0008120	.0864965	.0003148	.000704	.68648	.0046682	.0143514
%RSD	23.49624	344.4729	87.31179	92.56388	66.65019	49.10131	531.4562
#1	.0025506	-.064236	.0003856	-.001346	-.93825	.0141732	-.001583
#2	.0036979	.108443	.0000340	.000020	-.39397	.0095122	-.009021
#3	.0041197	.031123	.0006622	-.000954	-1.75772	.0048367	.018706

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.24314	.0032631	-.007432	.0005310	-.002159	-.082797	-.000994
Stddev	.08785	.0020299	.001901	.0004842	.004542	.000376	.000965
%RSD	7.066977	62.20811	25.58119	91.17489	210.3972	.4546769	97.12361
#1	-1.26098	.0010828	-.006007	.0005143	.002994	-.082455	-.001129
#2	-1.14773	.0036080	-.006699	.0000554	-.005583	-.083200	.000032
#3	-1.32070	.0050983	-.009591	.0010233	-.003887	-.082736	-.001885

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: PB165740BL Acquired: 12/24/2024 1:33:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS740 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.001338	-.000013	-.009148
Stddev	.004826	.000225	.003047
%RSD	360.7872	1791.778	33.30958
#1	-.000279	-.000100	-.012667
#2	-.006605	.000243	-.007403
#3	.002871	-.000181	-.007375

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2085.734	27226.62	2217.230	1794.186	1876.964
Stddev	16.258	75.20	14.793	5.518	13.643
%RSD	.7795037	.2761963	.6671881	.3075757	.7268576
#1	2104.326	27311.62	2202.395	1797.045	1892.661
#2	2074.179	27168.76	2217.313	1787.825	1870.260
#3	2078.699	27199.48	2231.981	1797.689	1867.969

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: PB165740BS Acquired: 12/24/2024 1:37:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS740 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0194646	.0450499	.0188642	.0597409	.1074041	.4107177
Stddev	.0032206	.0032447	.0008449	.0034624	.0013060	.0237184
%RSD	16.54595	7.202449	4.479008	5.795672	1.216006	5.774878
#1	.0216507	.0487096	.0189740	.0633272	.1081246	.4378268
#2	.0209769	.0439148	.0179697	.0594783	.1081912	.4005377
#3	.0157662	.0425252	.0196488	.0564173	.1058965	.3937886

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3831392	.0095417	.0094334	9.451467	.0194434	.0999822
Stddev	.0020007	.0002431	.0000903	.065701	.0005112	.0006739
%RSD	.5221875	2.547510	.9569270	.6951389	2.629319	.6740270
#1	.3811185	.0093341	.0093417	9.432351	.0189121	.0992351
#2	.3831799	.0098090	.0094364	9.397445	.0194862	.1001674
#3	.3851193	.0094819	.0095221	9.524607	.0199319	.1005442

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0514601	.1980625	.0316341	9.699988	.0754868	.0167178
Stddev	.0106176	.0096378	.0014234	.162663	.0006327	.0013443
%RSD	20.63269	4.866025	4.499583	1.676944	.8381534	8.041107
#1	.0636167	.1906278	.0301279	9.516839	.0747576	.0165255
#2	.0440044	.1946083	.0318175	9.827641	.0758897	.0181479
#3	.0467592	.2089514	.0329569	9.755484	.0758131	.0154800

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.562186	.0948255	.1158088	7.618661	.0206462	F -.008032
Stddev	1.168724	.0076215	.0112330	.168169	.0030992	.001638
%RSD	15.45484	8.037357	9.699575	2.207333	15.01101	20.39207
#1	8.685445	.0975091	.1219853	7.530290	.0176114	-.008972
#2	7.648346	.0862252	.1028429	7.513100	.0238060	-.008984
#3	6.352766	.1007422	.1225982	7.812592	.0205213	-.006141

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: PB165740BS Acquired: 12/24/2024 1:37:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS740 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0201454	.1734819	F .3695818	.0144456	.1911931	.1958770
Stddev	.0002990	.0020325	.0034943	.0016365	.0016585	.0000927
%RSD	1.484083	1.171576	.9454644	11.32879	.8674272	.0473077
#1	.0202461	.1713486	.3674972	.0154153	.1892892	.1958079
#2	.0203811	.1737015	.3736159	.0125561	.1919660	.1958408
#3	.0198091	.1753957	.3676324	.0153652	.1923240	.1959823

Elem	Li6707
Units	ppm
Avg	F .0177466
Stddev	.0073878
%RSD	41.62913
#1	.0124704
#2	.0145796
#3	.0261899

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2080.912	26880.42	2196.300	1766.114	1868.889
Stddev	4.927	124.23	13.571	7.993	5.098
%RSD	.2367486	.4621497	.6179160	.4525959	.2727770
#1	2078.850	26737.16	2201.805	1760.284	1867.748
#2	2086.535	26958.39	2180.841	1775.226	1874.461
#3	2077.352	26945.71	2206.253	1762.832	1864.458

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5015-02 Acquired: 12/24/2024 1:41:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK13 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003432	-.002429	-.000017	-.000861	-.001198	.0517208	.0007103
Stddev	.000972	.003171	.002285	.002867	.001977	.0301218	.0025547
%RSD	28.31662	130.5613	13822.42	333.0295	165.0825	58.23924	359.6504
#1	-.004509	-.002508	-.000220	-.003289	.001061	.0234050	-.000496
#2	-.003165	-.005559	.002363	.002302	-.002036	.0483863	-.001018
#3	-.002621	.000781	-.002193	-.001595	-.002618	.0833712	.003645

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000788	-.000008	.1210893	-.000351	-.000221	-.005093	.0166982
Stddev	.0000565	.000036	.0429334	.000957	.000450	.006289	.0434032
%RSD	71.61240	443.1262	35.45597	272.9062	203.1180	123.4750	259.9284
#1	.0000647	.000022	.1332765	-.001348	.000248	-.010490	.0577548
#2	.0000308	-.000047	.1566115	.000560	-.000263	-.006603	.0210617
#3	.0001410	.000001	.0733798	-.000264	-.000649	.001813	-.028722

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0129821	.1294466	.0003047	-.001595	-1.04740	.0062304	-.011724
Stddev	.0010233	.0289599	.0005482	.001406	.64839	.0138129	.005832
%RSD	7.882014	22.37208	179.8911	88.11309	61.90413	221.7030	49.74287
#1	.0140686	.1610420	.0006825	.000011	-.57068	.0211972	-.014390
#2	.0128409	.1231342	.0005557	-.002195	-1.78572	-.006027	-.005036
#3	.0120367	.1041635	-.000324	-.002602	-.78581	.003521	-.015747

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-3.45311	.0046746	-.005238	.0006603	.0581750	-.072133	-.001435
Stddev	.05762	.0010470	.002085	.0003554	.0029987	.001485	.001821
%RSD	1.668753	22.39673	39.80914	53.81559	5.154623	2.058395	126.9397
#1	-3.44485	.0058834	-.002882	.0002542	.0615665	-.072657	-.002853
#2	-3.51442	.0040835	-.006844	.0009140	.0570833	-.073285	.000619
#3	-3.40006	.0040568	-.005990	.0008129	.0558750	-.070457	-.002071

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5015-02 Acquired: 12/24/2024 1:41:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK13 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0039086	.0001949	-.026307
Stddev	.0035778	.0000560	.002833
%RSD	91.53682	28.75226	10.76900
#1	-.000036	.0002097	-.025047
#2	.004818	.0001329	-.029552
#3	.006944	.0002420	-.024323

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2153.542	27969.05	2299.094	1846.402	1949.274
Stddev	11.388	132.53	65.846	7.161	9.871
%RSD	.5288099	.4738560	2.863986	.3878592	.5064096
#1	2164.984	28120.96	2303.184	1854.515	1958.208
#2	2153.434	27877.05	2362.800	1840.960	1950.937
#3	2142.208	27909.14	2231.299	1843.731	1938.677

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5033-21 Acquired: 12/24/2024 1:45:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKQ4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057036	.0009469	-.000927	.0017850	-.000565	.0851878	.0012974
Stddev	.0037920	.0027678	.001944	.0010654	.000622	.0242490	.0007909
%RSD	66.48533	292.3146	209.7746	59.68450	110.1314	28.46533	60.96355
#1	.0100057	.0011692	-.000745	.0009196	-.000346	.0836829	.0011211
#2	.0028464	.0035969	.000920	.0029749	-.000081	.1101541	.0021615
#3	.0042587	-.001925	-.002955	.0014605	-.001266	.0617263	.0006095

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000540	-.000074	.1251497	-.001547	.0001868	.0002322	.0315439
Stddev	.0000536	.000049	.0340078	.000188	.0000481	.0024484	.0204904
%RSD	99.20695	65.88095	27.17373	12.14556	25.77549	1054.362	64.95828
#1	.0001106	-.000128	.0865208	-.001649	.0002408	.0030547	.0539631
#2	.0000474	-.000063	.1383495	-.001663	.0001713	-.001038	.0268831
#3	.0000040	-.000032	.1505788	-.001331	.0001484	-.001320	.0137854

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053356	.1119938	.0009578	-.001470	-1.38046	.0015921	.0088831
Stddev	.0018150	.0276292	.0004502	.000342	.63413	.0069746	.0164035
%RSD	34.01727	24.67030	47.00169	23.24653	45.93602	438.0638	184.6588
#1	.0041885	.0870186	.0009558	-.001094	-.66557	-.003687	.0078126
#2	.0043902	.1072897	.0014089	-.001762	-1.60070	-.001036	.0257956
#3	.0074282	.1416730	.0005086	-.001556	-1.87510	.009499	-.006959

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-3.50996	.0104037	-.008049	.0003767	.0239399	-.067543	-.000566
Stddev	.09201	.0019184	.001614	.0002814	.0046934	.000304	.000908
%RSD	2.621286	18.43955	20.05762	74.70397	19.60493	.4501440	160.4610
#1	-3.58508	.0113822	-.008730	.0006037	.0292231	-.067196	-.000606
#2	-3.40734	.0116355	-.006205	.0000618	.0223443	-.067675	-.001453
#3	-3.53746	.0081933	-.009211	.0004646	.0202523	-.067760	.000361

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5033-21 Acquired: 12/24/2024 1:45:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKQ4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0010037	.0002413	-.027453
Stddev	.0045311	.0001042	.004830
%RSD	451.4349	43.16353	17.59254
#1	.0041316	.0001216	-.023194
#2	-.004192	.0002913	-.026465
#3	.003072	.0003111	-.032700

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2129.492	28212.44	2216.365	1867.266	1926.065
Stddev	21.324	1019.99	14.754	73.241	17.411
%RSD	1.001368	3.615406	.6657069	3.922363	.9039619
#1	2125.588	27528.62	2230.728	1817.290	1920.550
#2	2152.499	27723.88	2217.120	1833.169	1945.566
#3	2110.390	29384.82	2201.247	1951.339	1912.081

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5059-20 Acquired: 12/24/2024 1:49:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLD7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007093	.0004251	-.001400	.0031490	-.001656	.0508114	.0003909
Stddev	.0016613	.0027887	.000659	.0003721	.002051	.0457754	.0012340
%RSD	234.2206	655.9779	47.07788	11.81776	123.8479	90.08874	315.6913
#1	-.000053	-.001657	-.002141	.0029256	-.001596	.0715645	.0016542
#2	-.000434	-.000661	-.001183	.0035786	.000364	.0825344	-.000812
#3	.002615	.003593	-.000877	.0029428	-.003735	-.001665	.000330

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000319	-.000019	.0467782	.0002910	-.000215	-.002318	.0294987
Stddev	.0001292	.000035	.0117818	.0008227	.000050	.007165	.0284792
%RSD	405.5566	184.5093	25.18655	282.7824	23.22506	309.0678	96.54373
#1	-.000091	.000021	.0352591	.0010318	-.000261	.002338	-.003148
#2	.000167	-.000044	.0588062	-.000595	-.000222	-.010569	.049242
#3	.000019	-.000034	.0462692	.000436	-.000162	.001276	.042403

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026588	.1324405	.0026453	-.000558	-1.09704	.0095263	.0066393
Stddev	.0015131	.1174477	.0006028	.000565	.24096	.0088907	.0104226
%RSD	56.90954	88.67954	22.78884	101.0872	21.96426	93.32723	156.9831
#1	.0009388	.1064077	.0028606	-.000470	-1.05984	-.000739	.0158601
#2	.0037846	.0301935	.0031109	-.000043	-1.35444	.014793	.0087269
#3	.0032530	.2607204	.0019643	-.001162	-.87685	.014524	-.004669

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-3.46515	.0047688	-.007852	-.000009	-.001406	-.075548	-.002205
Stddev	.11424	.0009911	.002227	.000892	.003807	.000714	.001286
%RSD	3.296876	20.78234	28.36520	9575.617	270.7445	.9448729	58.28836
#1	-3.43460	.0036301	-.006832	.000467	-.003105	-.076172	-.003341
#2	-3.36929	.0054368	-.010406	-.001039	-.004069	-.075702	-.002466
#3	-3.59156	.0052395	-.006317	.000544	.002955	-.074770	-.000810

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5059-20 Acquired: 12/24/2024 1:49:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLD7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0010728	.0002721	-.027714
Stddev	.0080585	.0003534	.003643
%RSD	751.1434	129.8948	13.14409
#1	-.005141	.0005343	-.030250
#2	-.001819	.0004118	-.029352
#3	.010178	-.000130	-.023540

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2151.454	27891.83	2257.514	1843.521	1944.274
Stddev	5.814	194.65	71.087	12.119	7.430
%RSD	.2702341	.6978880	3.148908	.6573695	.3821358
#1	2157.958	28114.95	2229.463	1857.127	1952.276
#2	2149.644	27803.76	2338.347	1833.887	1942.952
#3	2146.761	27756.77	2204.733	1839.548	1937.594

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5059-21 Acquired: 12/24/2024 1:53:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLD8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011240	.0001325	-.002035	.0010023	-.001480	.0465843	.0008912
Stddev	.0116032	.0015545	.000821	.0018730	.002089	.0244077	.0005424
%RSD	1032.316	1173.359	40.37042	186.8731	141.1654	52.39475	60.86372
#1	-.003387	-.001662	-.001917	.0017234	.000908	.0504275	.0006533
#2	.014305	.001069	-.001278	.0024075	-.002971	.0688424	.0015119
#3	-.007546	.000990	-.002909	-.001124	-.002376	.0204830	.0005084

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001227	.0000395	.0754278	-.001258	.0000844	-.004351	.0221573
Stddev	.0000994	.0000836	.0373090	.000504	.0004109	.007796	.0251641
%RSD	81.02098	211.4788	49.46323	40.07659	486.7595	179.1630	113.5702
#1	.0000081	.0000080	.1185073	-.001485	.0005328	-.006572	.0339513
#2	.0001861	.0001343	.0536023	-.000680	-.000005	-.010796	-.006738
#3	.0001740	-.000024	.0541738	-.001609	-.000274	.004314	.039258

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019164	-.032028	.0003228	-.000965	-.994659	.0060280	-.006748
Stddev	.0010647	.101687	.0004531	.001084	.081960	.0073050	.000992
%RSD	55.55869	317.4977	140.3849	112.3166	8.240045	121.1833	14.70503
#1	.0017155	-.022212	-.000021	-.001088	-1.06726	.0037844	-.007177
#2	.0009665	.064396	.000836	-.001983	-1.01093	.0141917	-.007453
#3	.0030673	-.138267	.000153	.000175	-.90578	.0001080	-.005613

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-3.38996	.0021817	-.007200	-.000340	-.001491	-.070693	-.002010
Stddev	.16200	.0005605	.002087	.000545	.000518	.001594	.001419
%RSD	4.778822	25.69070	28.97945	160.4593	34.76439	2.255333	70.62128
#1	-3.45749	.0017275	-.004793	.000062	-.001293	-.068864	-.002055
#2	-3.20511	.0028081	-.008490	-.000960	-.002080	-.071429	-.000568
#3	-3.50726	.0020095	-.008318	-.000121	-.001101	-.071787	-.003406

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5059-21 Acquired: 12/24/2024 1:53:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLD8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0018266	.0004159	-.029430
Stddev	.0028559	.0002364	.002352
%RSD	156.3542	56.83402	7.991521
#1	.0005945	.0003525	-.029984
#2	.0050917	.0006776	-.031456
#3	-.000207	.0002177	-.026851

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2139.869	27634.24	2198.283	1824.914	1934.067
Stddev	5.907	335.35	21.348	20.550	4.269
%RSD	.2760414	1.213548	.9711409	1.126094	.2207038
#1	2140.396	27381.10	2221.536	1812.342	1933.611
#2	2133.716	27507.03	2179.569	1813.772	1930.045
#3	2145.495	28014.59	2193.743	1848.629	1938.545

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5092-20 Acquired: 12/24/2024 1:57:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM40 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012475	.0025984	-.001039	.0020798	-.001815	.0313244	.0014993
Stddev	.0069608	.0035985	.000755	.0032866	.001460	.0091225	.0008169
%RSD	557.9783	138.4903	72.70524	158.0235	80.46047	29.12249	54.48958
#1	-.000138	-.000810	-.001808	-.001569	-.001419	.0416083	.0005900
#2	.008797	.006361	-.000298	.004809	-.003433	.0281572	.0021714
#3	-.004916	.002244	-.001010	.002999	-.000594	.0242077	.0017364

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000132	-.000085	.0443032	-.001750	.0000284	.0033244	.0275875
Stddev	.0001023	.000099	.0422559	.000747	.0001255	.0137733	.0330439
%RSD	777.1361	115.6716	95.37894	42.69312	442.4336	414.3050	119.7785
#1	-.000027	-.000114	-.001856	-.000936	.0000908	-.006816	.0147618
#2	-.000063	-.000167	.081077	-.002404	-.000116	.019005	.0651215
#3	.000129	.000024	.053688	-.001909	.000110	-.002216	.0028792

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019783	.0194376	.0004062	-.001508	-1.24452	.0108344	-.006648
Stddev	.0010628	.0078952	.0003481	.000128	.66939	.0066165	.008649
%RSD	53.72435	40.61827	85.70332	8.466538	53.78679	61.06907	130.0929
#1	.0009624	.0114239	.0007742	-.001533	-.95649	.0045069	-.000010
#2	.0018899	.0272088	.0000821	-.001621	-.76737	.0102902	-.003506
#3	.0030826	.0196803	.0003624	-.001370	-2.00972	.0177062	-.016429

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-3.62395	.0050955	-.006870	.0002132	.0064060	-.078793	-.001997
Stddev	.07390	.0011608	.001428	.0004866	.0011586	.000737	.001254
%RSD	2.039158	22.77992	20.78134	228.2262	18.08668	.9353614	62.79698
#1	-3.59235	.0061945	-.005296	.0007745	.0061527	-.079611	-.001826
#2	-3.57110	.0052105	-.008081	-.000089	.0053950	-.078180	-.000838
#3	-3.70839	.0038816	-.007233	-.000045	.0076703	-.078588	-.003328

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5092-20 Acquired: 12/24/2024 1:57:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM40 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.000050	.0001767	-.034079
Stddev	.004326	.0003052	.004056
%RSD	8719.701	172.7467	11.90039
#1	.002013	.0004581	-.031643
#2	.002859	.0002196	-.031834
#3	-.005021	-.000148	-.038761

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2125.727	27715.24	2259.708	1838.503	1922.937
Stddev	11.249	169.92	20.750	5.204	9.241
%RSD	.5291701	.6130905	.9182397	.2830353	.4805814
#1	2138.532	27601.30	2245.215	1838.319	1933.592
#2	2121.206	27633.89	2283.478	1833.393	1918.118
#3	2117.441	27910.55	2250.432	1843.796	1917.102

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5132-21 Acquired: 12/24/2024 2:01:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMN5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000218	.0024138	-.003045	.0018157	-.000955	.0694758	.0001178
Stddev	.002037	.0022498	.002119	.0072139	.002163	.0073843	.0009998
%RSD	935.4077	93.20386	69.57958	397.3119	226.5089	10.62867	848.9271
#1	.000728	.0004134	-.000708	-.006323	.001150	.0644197	-.001020
#2	-.002556	.0048493	-.003586	.007420	-.003171	.0660579	.000855
#3	.001174	.0019786	-.004841	.004350	-.000843	.0779499	.000519

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000121	-.000017	.0709031	-.001153	.0001253	-.002527	.0414868
Stddev	.000062	.000037	.0158506	.001126	.0003766	.003777	.0108945
%RSD	50.92509	214.6351	22.35529	97.67424	300.4953	149.4554	26.26002
#1	-.000051	-.000059	.0700215	-.002202	-.000290	-.000934	.0408920
#2	-.000169	.000015	.0871760	.000037	.000223	-.006840	.0526665
#3	-.000143	-.000009	.0555117	-.001295	.000444	.000192	.0309020

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029426	.1678181	.0007404	-.001662	-1.63866	.0063067	.0080453
Stddev	.0005991	.0793338	.0001794	.000285	.37945	.0086266	.0072583
%RSD	20.36094	47.27370	24.22835	17.16029	23.15576	136.7843	90.21826
#1	.0027530	.2525693	.0009073	-.001517	-1.67511	-.000617	.0160559
#2	.0036136	.1555555	.0005507	-.001478	-1.99857	.003567	.0061744
#3	.0024612	.0953296	.0007633	-.001990	-1.24231	.015971	.0019055

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-3.50253	.0020051	-.008390	-.000003	.0121246	-.082269	-.001951
Stddev	.11179	.0026162	.003647	.000298	.0057313	.000239	.001213
%RSD	3.191725	130.4791	43.47299	9876.541	47.26999	.2910366	62.15992
#1	-3.39004	.0039585	-.004245	-.000071	.0184399	-.082503	-.000623
#2	-3.61361	-.000967	-.009814	-.000261	.0072537	-.082024	-.002999
#3	-3.50394	.003024	-.011110	.000322	.0106802	-.082279	-.002231

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5132-21 Acquired: 12/24/2024 2:01:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMN5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0004137	.0000926	-.031398
Stddev	.0022875	.0001638	.001204
%RSD	553.0077	176.9618	3.834318
#1	.0029928	.0001474	-.032782
#2	-.000382	.0002219	-.030593
#3	-.001370	-.000092	-.030819

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2130.500	27440.07	2215.254	1817.428	1924.916
Stddev	9.700	71.60	16.300	6.020	5.998
%RSD	.4552840	.2609191	.7357963	.3312207	.3115942
#1	2119.635	27455.76	2232.078	1817.146	1918.802
#2	2133.573	27361.93	2214.149	1811.554	1925.154
#3	2138.291	27502.52	2199.534	1823.583	1930.791

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5200-15 Acquired: 12/24/2024 2:05:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNJ3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004105	.0014180	-.001756	.0008796	-.000848	.0273913	.0007009
Stddev	.002772	.0019758	.002065	.0030836	.001424	.0060606	.0010951
%RSD	67.53247	139.3353	117.5932	350.5856	167.9769	22.12586	156.2559
#1	-.005049	.0036750	-.001873	-.001562	.000729	.0313944	.0019651
#2	-.000984	.0005782	.000365	.004345	-.001234	.0303609	.0000442
#3	-.006281	.0000009	-.003759	-.000145	-.002039	.0204187	.0000932

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000627	-.000027	.0949169	-.002173	.0001755	.0011163	.0057297
Stddev	.0001107	.000108	.0024665	.000978	.0006477	.0071226	.0258908
%RSD	176.4209	403.7712	2.598591	45.00480	369.1164	638.0488	451.8666
#1	-.000010	-.000135	.0946296	-.003051	-.000561	.0070550	-.023027
#2	.000008	.000080	.0975145	-.002349	.000429	-.006781	.013028
#3	.000190	-.000026	.0926066	-.001119	.000658	.003074	.027188

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0114714	.0658962	.0002220	-.000676	-1.27598	.0094126	-.009990
Stddev	.0011531	.0453948	.0001679	.001690	.56881	.0043383	.006078
%RSD	10.05202	68.88827	75.60617	249.9607	44.57849	46.09011	60.83933
#1	.0102576	.1011766	.0000775	-.001874	-1.91081	.0124917	-.009337
#2	.0125522	.0818292	.0001824	-.001410	-.81266	.0112952	-.004265
#3	.0116044	.0146829	.0004061	.001257	-1.10446	.0044511	-.016368

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-3.40158	.0059661	-.007261	-.000272	.0455656	-.081078	-.001040
Stddev	.22761	.0020080	.002434	.000309	.0011047	.000466	.001677
%RSD	6.691213	33.65642	33.52042	113.7201	2.424384	.5742246	161.3695
#1	-3.18302	.0048899	-.006365	.000084	.0464992	-.080671	-.000864
#2	-3.38445	.0082828	-.010016	-.000432	.0443460	-.081586	.000543
#3	-3.63726	.0047257	-.005402	-.000467	.0458515	-.080977	-.002798

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5200-15 Acquired: 12/24/2024 2:05:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNJ3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.000112	.0001849	-.029888
Stddev	.005368	.0000983	.001102
%RSD	4812.940	53.15783	3.688179
#1	.005344	.0001973	-.029488
#2	-.000292	.0000810	-.029042
#3	-.005386	.0002763	-.031135

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2166.388	28123.40	2258.140	1856.766	1960.126
Stddev	7.958	81.47	20.819	4.535	3.996
%RSD	.3673556	.2896704	.9219334	.2442627	.2038533
#1	2174.549	28216.52	2249.683	1861.371	1964.302
#2	2158.649	28088.34	2281.856	1856.623	1956.339
#3	2165.965	28065.33	2242.880	1852.304	1959.735

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCV009 Acquired: 12/24/2024 2:09:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV009 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.804805	4.530642	23.25510	4.710683	4.831697	378.1683
Stddev	.008539	.012167	.04049	.010744	.016510	7.7892
%RSD	.1777233	.2685555	.1740943	.2280779	.3416961	2.059717
#1	4.798397	4.518104	23.20869	4.702985	4.831237	376.1008
#2	4.801520	4.542401	23.27342	4.706106	4.815422	371.6215
#3	4.814499	4.531420	23.28318	4.722957	4.848432	386.7827

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.524010	.4637434	2.358348	380.2233	14.91048	2.449232
Stddev	.195868	.0088065	.003249	8.1597	.03927	.003627
%RSD	2.056566	1.899013	.1377558	2.146038	.2633842	.1480881
#1	9.500994	.4643928	2.354625	376.8424	14.94127	2.445049
#2	9.340667	.4546302	2.359811	374.2974	14.92391	2.451137
#3	9.730369	.4722073	2.360608	389.5300	14.86625	2.451510

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.02251	379.6799	13.95303	374.8157	2.352369	1.185032
Stddev	.33449	7.9627	.26709	7.6194	.004661	.000943
%RSD	2.385354	2.097204	1.914203	2.032839	.1981415	.0795903
#1	13.86687	378.5988	13.90101	373.3244	2.347297	1.184611
#2	13.79421	372.3130	13.71578	368.0523	2.353346	1.186113
#3	14.40646	388.1279	14.24231	383.0706	2.356464	1.184374

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	366.0467	2.346132	14.38852	137.7690	4.669209	4.657432
Stddev	8.0229	.046017	.14290	2.9126	.011513	.085278
%RSD	2.191774	1.961381	.9931616	2.114150	.2465711	1.831012
#1	366.6424	2.341223	14.22353	136.6505	4.658926	4.666483
#2	357.7425	2.302766	14.46855	135.5814	4.681647	4.567989
#3	373.7551	2.394406	14.47346	141.0751	4.667054	4.737823

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCV009 Acquired: 12/24/2024 2:09:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV009 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.689230	4.792282	F 4.478529	4.714813	4.698855	4.541948
Stddev	.013511	.011904	.067805	.008984	.103787	.102117
%RSD	.2881214	.2483944	1.514002	.1905492	2.208779	2.248309
#1	4.692092	4.783097	4.490696	4.708828	4.638841	4.474983
#2	4.674518	4.805731	4.405464	4.710467	4.639027	4.491379
#3	4.701081	4.788019	4.539427	4.725144	4.818699	4.659482

Elem	Li6707
Units	ppm
Avg	4.660582
Stddev	.104556
%RSD	2.243421
#1	4.634284
#2	4.571684
#3	4.775776

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1804.495	24362.56	2148.404	1516.467	1577.041
Stddev	3.119	118.39	34.596	6.302	3.673
%RSD	.1728614	.4859422	1.610330	.4155974	.2328839
#1	1800.955	24275.80	2139.682	1513.362	1575.466
#2	1805.687	24314.44	2186.527	1512.320	1574.419
#3	1806.842	24497.42	2119.004	1523.719	1581.239

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCB009 Acquired: 12/24/2024 2:12:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB009 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003135	.0000976	.0014948	.0049593	.0009014	.0378657	-.001161
Stddev	.0054124	.0033465	.0021914	.0057119	.0012564	.0203309	.000634
%RSD	1726.345	3429.116	146.6069	115.1756	139.3718	53.69221	54.59132
#1	-.004757	-.003148	.0039774	.0065527	-.000376	.0576521	-.000724
#2	-.000316	.003536	.0006775	-.001380	.000945	.0389140	-.001888
#3	.006013	-.000095	-.000171	.009705	.002135	.0170309	-.000871

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000082	.0000377	-.010419	-.000517	-.000243	.0067482	.0047304
Stddev	.000036	.0000615	.023081	.000770	.000216	.0054812	.0352168
%RSD	43.70318	163.1740	221.5246	148.8884	88.88092	81.22515	744.4715
#1	-.000097	.0001059	-.015182	.000153	.000004	.0114717	.0125691
#2	-.000041	-.000014	.014672	-.001357	-.000338	.0007381	.0353675
#3	-.000108	.000021	-.030748	-.000346	-.000395	.0080347	-.033745

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022102	.1103900	.0001331	-.000378	-1.41989	.0006643	-.008125
Stddev	.0021031	.0593036	.0003734	.000656	.63457	.0113824	.008493
%RSD	95.15456	53.72190	280.5748	173.7746	44.69171	1713.446	104.5258
#1	.0045080	.0617982	.0001121	-.001047	-.78574	.0109613	.000324
#2	.0017416	.0929001	.0005165	.000264	-1.41904	-.011558	-.016661
#3	.0003809	.1764716	-.000229	-.000350	-2.05488	.002590	-.008038

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.19875	.0018202	.0040618	.0004299	-.001459	-.085352	.0007712
Stddev	.07279	.0008332	.0015898	.0006447	.000671	.000435	.0007330
%RSD	6.072006	45.77456	39.14086	149.9608	45.97639	.5098779	95.04212
#1	-1.17875	.0014381	.0041327	.0010452	-.001422	-.085470	.0015310
#2	-1.27945	.0027758	.0056151	-.000241	-.002148	-.085716	.0007143
#3	-1.13806	.0012465	.0024377	.000485	-.000808	-.084870	.0000683

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCB009 Acquired: 12/24/2024 2:12:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB009 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0015015	.0003455	.0008044
Stddev	.0041247	.0001822	.0039727
%RSD	274.7036	52.72826	493.8743
#1	.0060152	.0002527	-.003577
#2	.0005613	.0002284	.001819
#3	-.002072	.0005554	.004171

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2087.382	27121.33	2215.069	1789.370	1877.238
Stddev	11.381	43.00	35.452	11.915	10.034
%RSD	.5452390	.1585535	1.600475	.6658673	.5345253
#1	2092.026	27081.80	2255.992	1779.406	1876.311
#2	2095.707	27115.07	2195.498	1786.137	1887.703
#3	2074.413	27167.11	2193.716	1802.568	1867.699

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5212-09 Acquired: 12/24/2024 2:16:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNJ4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007123	.0016515	.0006257	.0039527	.0001328	.0360407	.0010864
Stddev	.005528	.0024465	.0008406	.0023032	.0040180	.0047740	.0009696
%RSD	77.61102	148.1334	134.3443	58.26823	3026.596	13.24619	89.25076
#1	-.010332	.0022244	.0015789	.0042360	.0019390	.0344482	.0004763
#2	-.000740	-.001031	-.000009	.0015210	.0029306	.0322664	.0022045
#3	-.010296	.003761	.000307	.0061011	-.004471	.0414074	.0005784

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000193	.0000097	.1080172	-.000468	.0002716	-.001894	.0392977
Stddev	.0001712	.0000879	.0151437	.000669	.0004221	.000354	.0234778
%RSD	886.1486	907.3747	14.01968	142.9445	155.4120	18.66700	59.74349
#1	-.000141	-.000089	.0905678	-.001070	.0006309	-.001711	.0248436
#2	.000199	.000038	.1157571	.000253	-.000193	-.002302	.0663872
#3	.000000	.000080	.1177266	-.000588	.000377	-.001669	.0266623

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1153258	.0841974	.0006182	-.001668	-.999545	.0005385	.0194215
Stddev	.0030359	.0748437	.0001870	.000219	.631269	.0111944	.0192660
%RSD	2.632467	88.89075	30.24755	13.11921	63.15563	2078.847	99.19930
#1	.1118210	.0280091	.0005664	-.001911	-.659420	-.012191	.0385918
#2	.1170160	.1691575	.0004626	-.001608	-.611274	.008847	.0196113
#3	.1171405	.0554256	.0008257	-.001486	-1.72794	.004960	.0000613

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-3.49906	.0048947	-.006422	-.000053	.0276683	-.078987	-.001462
Stddev	.10379	.0014742	.000932	.000264	.0074013	.001208	.000083
%RSD	2.966358	30.11872	14.51899	496.3732	26.75004	1.529195	5.681931
#1	-3.39567	.0059568	-.006938	-.000325	.0331566	-.079976	-.001507
#2	-3.49825	.0032116	-.006982	.000201	.0192507	-.079345	-.001367
#3	-3.60326	.0055157	-.005346	-.000035	.0305976	-.077641	-.001514

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5212-09 Acquired: 12/24/2024 2:16:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNJ4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.000181	.0002110	-.029308
Stddev	.002842	.0004677	.001665
%RSD	1572.356	221.6655	5.679807
#1	.002701	.0006233	-.030965
#2	-.000263	-.000297	-.029324
#3	-.002981	.000307	-.027636

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2133.008	27881.39	2232.092	1843.993	1931.714
Stddev	10.188	363.52	16.375	27.513	9.037
%RSD	.4776476	1.303811	.7336011	1.492017	.4678002
#1	2144.450	27553.31	2237.465	1819.136	1941.443
#2	2129.657	27818.67	2245.105	1839.288	1930.118
#3	2124.917	28272.19	2213.706	1873.555	1923.583

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: PB165669BL Acquired: 12/24/2024 2:20:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBW669 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006480	-.003453	.0000050	.0066262	.0010748	.0114452	.0002685
Stddev	.0030994	.001731	.0027824	.0036875	.0022057	.0178562	.0006039
%RSD	478.3273	50.13386	55189.54	55.65045	205.2266	156.0149	224.8756
#1	-.001077	-.004935	.0020095	.0085545	.0004414	.0002413	.0009450
#2	.004226	-.001550	.0011774	.0023743	-.000745	.0320371	.0000767
#3	-.001205	-.003873	-.003172	.0089497	.003528	.0020572	-.000216

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000040	-.000099	-.069541	-.000072	-.000596	.0075376	.0177024
Stddev	.0001148	.000152	.036578	.000549	.000281	.0040464	.0356045
%RSD	2882.387	153.7991	52.59966	766.9488	47.22703	53.68268	201.1282
#1	-.000101	.000012	-.083961	.000278	-.000329	.0034477	-.000597
#2	.000126	-.000272	-.027950	-.000705	-.000890	.0115391	.058735
#3	-.000013	-.000036	-.096712	.000212	-.000568	.0076260	-.005031

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004561	.0566678	-.000181	-.000805	-1.66539	.0024388	-.020268
Stddev	.0010731	.1164588	.000635	.000490	.43957	.0038285	.015952
%RSD	235.2810	205.5116	351.7222	60.88996	26.39459	156.9865	78.70452
#1	.0014999	.1590704	.000550	-.000581	-1.78393	.0066816	-.020391
#2	.0005124	-.070018	-.000600	-.000466	-1.17870	-.000758	-.004255
#3	-.000644	.080951	-.000491	-.001366	-2.03354	.001393	-.036159

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.27294	.0026658	-.004599	.0002988	-.003975	-.085313	.0001790
Stddev	.05394	.0013307	.000513	.0007579	.001365	.000552	.0005565
%RSD	4.237481	49.91745	11.14598	253.6909	34.33183	.6469755	310.8889
#1	-1.32260	.0038763	-.004775	-.000501	-.002412	-.085947	-.000385
#2	-1.28066	.0012409	-.004021	.000390	-.004928	-.085056	.000728
#3	-1.21555	.0028802	-.005000	.001007	-.004584	-.084937	.000194

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: PB165669BL Acquired: 12/24/2024 2:20:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBW669 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0004027	-.000036	-.010544
Stddev	.0029993	.000090	.004969
%RSD	744.7976	247.7454	47.12761
#1	.0034917	-.000140	-.007691
#2	.0002146	.000025	-.007660
#3	-.002498	.000006	-.016282

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2064.784	26654.63	2202.009	1757.366	1853.916
Stddev	1.429	149.81	29.853	5.218	1.422
%RSD	.0692151	.5620268	1.355731	.2969152	.0766918
#1	2066.340	26622.81	2184.344	1753.884	1852.275
#2	2063.530	26523.30	2236.477	1754.850	1854.797
#3	2064.483	26817.80	2185.205	1763.366	1854.674

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: PB165669BS Acquired: 12/24/2024 2:24:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS669 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0152195	.0489197	.0191665	.0659026	.1114880	.4312850
Stddev	.0048493	.0025991	.0011314	.0021485	.0002573	.0103752
%RSD	31.86258	5.312957	5.902836	3.260033	.2307618	2.405654
#1	.0120819	.0491975	.0194290	.0649850	.1114742	.4333691
#2	.0208049	.0513688	.0201435	.0643654	.1112379	.4404599
#3	.0127718	.0461929	.0179269	.0683575	.1117519	.4200259

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3855528	.0095467	.0098118	9.457224	.0198666	.1025417
Stddev	.0039801	.0000726	.0000530	.015549	.0002940	.0005396
%RSD	1.032307	.7601225	.5398649	.1644166	1.479643	.5261853
#1	.3821286	.0096127	.0097850	9.459895	.0195485	.1027679
#2	.3846103	.0094690	.0098728	9.471264	.0201283	.1019259
#3	.3899196	.0095584	.0097775	9.440512	.0199228	.1029314

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0509617	.1775923	.0315373	9.670348	.0774869	.0176088
Stddev	.0094728	.0340338	.0015883	.180995	.0002238	.0012530
%RSD	18.58812	19.16401	5.036293	1.871646	.2888741	7.115801
#1	.0564447	.1911015	.0308945	9.466641	.0774135	.0165537
#2	.0400234	.2027975	.0303712	9.731750	.0773089	.0189937
#3	.0564169	.1388780	.0333463	9.812655	.0777382	.0172790

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.654004	.1072196	.1242808	7.869432	.0203605	F -.003904
Stddev	.713281	.0117020	.0095614	.156428	.0012996	.001768
%RSD	9.319062	10.91404	7.693418	1.987790	6.382912	45.28036
#1	8.201775	.1173496	.1143069	7.688967	.0212323	-.002615
#2	7.912783	.1098989	.1251673	7.966282	.0209824	-.003177
#3	6.847455	.0944103	.1333681	7.953049	.0188668	-.005919

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: PB165669BS Acquired: 12/24/2024 2:24:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS669 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0201906	.1782746	F .3631769	.0132089	.1905359	.1967343
Stddev	.0002415	.0027946	.0050880	.0018619	.0038427	.0011940
%RSD	1.196327	1.567601	1.400964	14.09544	2.016809	.6068895
#1	.0203992	.1773726	.3606020	.0127888	.1870219	.1956763
#2	.0199259	.1760423	.3598911	.0115930	.1899465	.1964978
#3	.0202467	.1814088	.3690377	.0152449	.1946393	.1980288

Elem	Li6707
Units	ppm
Avg	F .0176270
Stddev	.0072946
%RSD	41.38289
#1	.0148413
#2	.0121358
#3	.0259040

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2062.537	26959.92	2230.356	1780.534	1857.381
Stddev	1.408	87.03	17.665	8.231	3.258
%RSD	.0682835	.3228253	.7920451	.4622601	.1754328
#1	2061.828	27001.09	2242.402	1783.187	1855.424
#2	2061.624	26859.94	2238.589	1771.304	1855.577
#3	2064.159	27018.73	2210.077	1787.111	1861.143

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5086-01 Acquired: 12/24/2024 2:28:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLM6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1814190	-.066427	3.658679	.1006282	.0440911	57.03467
Stddev	.0039739	.002888	.012982	.0020128	.0033624	.17476
%RSD	2.190463	4.348069	.3548326	2.000212	7.626106	.3064188
#1	.1843733	-.063215	3.647060	.1002127	.0479270	57.19422
#2	.1829824	-.067256	3.656285	.1028163	.0416536	57.06189
#3	.1769011	-.068811	3.672691	.0988557	.0426925	56.84788

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.532626	.0079856	.0108310	67.74964	.1736756	.1041110
Stddev	.005694	.0000575	.0001031	.29737	.0019627	.0005117
%RSD	.3715448	.7199980	.9516935	.4389308	1.130071	.4914950
#1	1.535308	.0080018	.0107964	68.02814	.1717338	.1046577
#2	1.536484	.0080332	.0107496	67.78434	.1756585	.1040316
#3	1.526086	.0079217	.0109469	67.43644	.1736343	.1036436

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4642450	194.3591	8.911077	25.15663	.1918102	-.002911
Stddev	.0027666	.1183	.019254	.05858	.0003964	.000413
%RSD	.5959463	.0608822	.2160689	.2328500	.2066777	14.20137
#1	.4616271	194.4599	8.931126	25.22115	.1915895	-.003276
#2	.4671396	194.3885	8.909374	25.14196	.1915733	-.002996
#3	.4639684	194.2288	8.892731	25.10678	.1922679	-.002462

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.832210	.1741368	2.174916	6.447103	F 11.89284	.0546918
Stddev	.027828	.0138209	.023291	.117123	.04847	.0025532
%RSD	3.343898	7.936809	1.070898	1.816680	.4075781	4.668284
#1	-.833945	.1608287	2.148158	6.575844	11.85634	.0520197
#2	-.803555	.1884190	2.190639	6.418610	11.87434	.0571065
#3	-.859130	.1731627	2.185951	6.346856	11.94783	.0549492

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5086-01 Acquired: 12/24/2024 2:28:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLM6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0115099	4.391134	4.841460	.1156864	.7103710	.0072420
Stddev	.0004538	.019861	.042343	.0014598	.0066131	.0011692
%RSD	3.942945	.4523077	.8745906	1.261865	.9309355	16.14470
#1	.0111240	4.372554	4.884435	.1140258	.7146937	.0084367
#2	.0120099	4.388781	4.840168	.1167677	.7027581	.0061001
#3	.0113958	4.412067	4.799778	.1162656	.7136611	.0071891

Elem	Li6707
Units	ppm
Avg	.0791350
Stddev	.0048948
%RSD	6.185350
#1	.0755445
#2	.0771500
#3	.0847104

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2551.386	32784.10	2750.789	2168.401	1887.497
Stddev	.999	162.39	17.978	9.723	2.729
%RSD	.0391363	.4953396	.6535754	.4484090	.1445652
#1	2551.216	32964.70	2732.519	2179.462	1889.481
#2	2550.484	32650.10	2751.387	2161.200	1888.625
#3	2552.459	32737.50	2768.461	2164.542	1884.385

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5086-02 Acquired: 12/24/2024 2:32:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLM7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1519557	-.045851	3.396114	.0709878	.0298856	52.93566
Stddev	.0067091	.005498	.007497	.0022369	.0010424	.26318
%RSD	4.415193	11.99075	.2207445	3.151104	3.487840	.4971622
#1	.1456458	-.039507	3.395508	.0686144	.0300326	52.65487
#2	.1590031	-.048820	3.388939	.0712920	.0308466	52.97540
#3	.1512179	-.049227	3.403896	.0730571	.0287775	53.17670

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.491319	.0072057	.0097571	71.32608	.1565363	.1028406
Stddev	.010513	.0000467	.0000494	.26646	.0003703	.0008043
%RSD	.7049488	.6486836	.5064882	.3735827	.2365385	.7820710
#1	1.480325	.0071575	.0097205	71.02697	.1561089	.1020061
#2	1.492358	.0072508	.0097376	71.41320	.1567401	.1029048
#3	1.501274	.0072088	.0098134	71.53808	.1567599	.1036108

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5420780	143.5688	8.391354	20.99999	.1826895	-.001944
Stddev	.0046191	.6334	.053397	.05460	.0008890	.000484
%RSD	.8521200	.4411942	.6363289	.2600125	.4866455	24.91652
#1	.5439223	142.8760	8.330709	20.95383	.1836961	-.002403
#2	.5368216	144.1183	8.412042	21.06027	.1820117	-.001437
#3	.5454900	143.7121	8.431310	20.98589	.1823607	-.001992

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.28466	.1813910	2.040353	5.405766	F 10.71606	.0464663
Stddev	.40789	.0111410	.010657	.128854	.02131	.0025834
%RSD	31.75090	6.141992	.5223056	2.383631	.1988227	5.559658
#1	-1.64569	.1717355	2.052569	5.319370	10.71469	.0471476
#2	-1.36610	.1788566	2.032959	5.344059	10.69547	.0486408
#3	-.84220	.1935808	2.035532	5.553869	10.73802	.0436106

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5086-02 Acquired: 12/24/2024 2:32:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLM7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0093820	4.881582	4.750738	.1006626	.8676968	.0575777
Stddev	.0002078	.010979	.028580	.0022224	.0034281	.0007057
%RSD	2.215118	.2249079	.6015984	2.207809	.3950838	1.225712
#1	.0093943	4.893764	4.717955	.1016816	.8652450	.0580721
#2	.0095834	4.872452	4.770415	.0981133	.8662312	.0567695
#3	.0091683	4.878530	4.763845	.1021928	.8716141	.0578915

Elem	Li6707
Units	ppm
Avg	.0685161
Stddev	.0020593
%RSD	3.005550
#1	.0688345
#2	.0703976
#3	.0663161

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2519.787	32370.50	2671.516	2138.476	1878.719
Stddev	1.504	126.50	16.331	15.058	3.176
%RSD	.0597056	.3907945	.6113025	.7041602	.1690501
#1	2520.547	32455.71	2689.516	2148.810	1880.380
#2	2520.760	32430.64	2657.649	2145.419	1880.721
#3	2518.054	32225.14	2667.382	2121.199	1875.057

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5086-03 Acquired: 12/24/2024 2:36:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLM8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1564373	-.042817	2.357358	.0769341	.0374060	69.35433
Stddev	.0033419	.004293	.003718	.0011790	.0042475	.70103
%RSD	2.136236	10.02678	.1577161	1.532523	11.35506	1.010797
#1	.1595514	-.043504	2.356766	.0757189	.0343869	68.54524
#2	.1529067	-.038221	2.353971	.0770102	.0355681	69.78047
#3	.1568538	-.046725	2.361336	.0780733	.0422629	69.73729

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.651652	.0075493	.0092611	121.9635	.1542005	.1267099
Stddev	.014478	.0000718	.0000205	.9929	.0004824	.0003423
%RSD	.8765694	.9517848	.2214670	.8140612	.3128242	.2701763
#1	1.634943	.0076196	.0092807	120.8277	.1544803	.1269897
#2	1.659544	.0075524	.0092398	122.3960	.1536435	.1263282
#3	1.660469	.0074760	.0092630	122.6667	.1544777	.1268120

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3502401	167.7936	11.53853	30.88319	.1835290	-.002178
Stddev	.0072788	1.6621	.09408	.22324	.0010551	.000949
%RSD	2.078235	.9905525	.8153693	.7228494	.5748850	43.57485
#1	.3459318	165.8758	11.43074	30.63540	.1823116	-.002061
#2	.3586440	168.6890	11.60413	30.94554	.1840986	-.001293
#3	.3461444	168.8160	11.58072	31.06862	.1841769	-.003181

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.52273	.1820292	1.517998	6.451144	F 13.81623	.0452319
Stddev	.41114	.0040358	.022204	.086824	.03390	.0058236
%RSD	27.00024	2.217128	1.462725	1.345868	.2453525	12.87487
#1	-1.06360	.1821256	1.504733	6.362758	13.81254	.0425014
#2	-1.85687	.1860159	1.505628	6.536317	13.78432	.0412753
#3	-1.64773	.1779460	1.543632	6.454359	13.85182	.0519190

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5086-03 Acquired: 12/24/2024 2:36:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLM8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0081411	2.770434	5.166781	.0782951	.6990494	.0630723
Stddev	.0007632	.015457	.015056	.0017630	.0079485	.0007999
%RSD	9.374174	.5579232	.2913995	2.251804	1.137042	1.268173
#1	.0072624	2.765800	5.150936	.0770654	.6902195	.0622640
#2	.0085220	2.757824	5.180898	.0775048	.7056329	.0630893
#3	.0086387	2.787678	5.168508	.0803150	.7012957	.0638635

Elem	Li6707
Units	ppm
Avg	.0912565
Stddev	.0032524
%RSD	3.564038
#1	.0896837
#2	.0949964
#3	.0890895

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2742.558	35164.22	2939.359	2328.602	1862.529
Stddev	5.472	54.89	10.274	2.829	4.633
%RSD	.1995194	.1560835	.3495216	.1215013	.2487666
#1	2743.036	35173.63	2950.098	2325.940	1864.304
#2	2747.775	35213.79	2929.624	2331.574	1866.013
#3	2736.863	35105.24	2938.356	2328.292	1857.271

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5086-04 Acquired: 12/24/2024 2:40:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLM9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1147778	-.042966	.9907974	.0793774	.0324535	66.44937
Stddev	.0057667	.004475	.0020959	.0012574	.0025116	.03555
%RSD	5.024203	10.41635	.2115327	1.584047	7.738928	.0534928
#1	.1194312	-.045440	.9884491	.0783593	.0340346	66.44150
#2	.1083263	-.037800	.9914647	.0807829	.0337685	66.41842
#3	.1165758	-.045658	.9924783	.0789902	.0295575	66.48819

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.807123	.0071426	.0077041	55.49463	.1168556	.1147962
Stddev	.002850	.0001007	.0001443	.13314	.0001812	.0005430
%RSD	.1576993	1.410213	1.872534	.2399109	.1551086	.4729770
#1	1.803968	.0072492	.0075387	55.41299	.1169288	.1146808
#2	1.807888	.0071293	.0078038	55.64826	.1169888	.1143202
#3	1.809512	.0070491	.0077699	55.42264	.1166492	.1153876

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1994297	160.4633	13.16162	20.36569	.1565971	-.001871
Stddev	.0015062	.3837	.01431	.10313	.0003984	.001132
%RSD	.7552392	.2391188	.1087133	.5063892	.2544037	60.50043
#1	.2010490	160.8693	13.15949	20.29060	.1561642	-.002145
#2	.1991694	160.1067	13.14850	20.32319	.1569483	-.002841
#3	.1980706	160.4140	13.17688	20.48328	.1566789	-.000627

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.24840	.1678823	1.154580	6.783290	F 18.52959	.0408450
Stddev	.77087	.0034698	.008910	.042080	.02903	.0023268
%RSD	61.74811	2.066830	.7716968	.6203504	.1566626	5.696629
#1	-.35977	.1718792	1.161180	6.800337	18.50341	.0428938
#2	-1.73720	.1656422	1.158115	6.735361	18.52456	.0383153
#3	-1.64824	.1661255	1.144445	6.814172	18.56081	.0413259

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5086-04 Acquired: 12/24/2024 2:40:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLM9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0108840	2.269969	5.186741	.0896842	.5243216	.0702075
Stddev	.0001650	.003755	.032123	.0030060	.0024157	.0013244
%RSD	1.515723	.1654074	.6193293	3.351729	.4607285	1.886399
#1	.0109671	2.272939	5.161852	.0920934	.5216478	.0693115
#2	.0109908	2.265749	5.175369	.0863157	.5263467	.0717288
#3	.0106940	2.271219	5.223004	.0906437	.5249705	.0695823

Elem	Li6707
Units	ppm
Avg	.0841192
Stddev	.0030745
%RSD	3.654925
#1	.0868620
#2	.0846996
#3	.0807958

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2718.892	34866.38	2914.877	2307.557	1880.479
Stddev	6.080	91.65	16.358	6.201	4.643
%RSD	.2236380	.2628733	.5612028	.2687370	.2469026
#1	2724.823	34839.32	2930.383	2300.518	1884.721
#2	2719.181	34791.31	2916.467	2309.940	1881.199
#3	2712.673	34968.52	2897.782	2312.214	1875.519

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5086-05 Acquired: 12/24/2024 2:44:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLN0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1255143	-.059489	.3683649	.0873637	.0352818	69.72223
Stddev	.0008784	.006384	.0020552	.0011525	.0027868	.42110
%RSD	.6998151	10.73115	.5579137	1.319236	7.898568	.6039686
#1	.1264895	-.066387	.3664423	.0883452	.0339087	69.60731
#2	.1247853	-.053789	.3681214	.0876512	.0384887	69.37053
#3	.1252681	-.058291	.3705309	.0860946	.0334481	70.18887

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.310175	.0074136	.0044098	39.68095	.1146086	.1129542
Stddev	.006183	.0000437	.0000411	.24325	.0009458	.0001487
%RSD	.4719261	.5899772	.9316175	.6130111	.8252683	.1316032
#1	1.305516	.0074400	.0044558	39.56482	.1135654	.1130083
#2	1.307820	.0074376	.0043768	39.51753	.1148503	.1127861
#3	1.317190	.0073631	.0043968	39.96050	.1154101	.1130683

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1457999	171.2629	8.789979	21.73711	.1427014	-.003186
Stddev	.0024616	1.1421	.045300	.18466	.0002903	.001083
%RSD	1.688328	.6668727	.5153568	.8495323	.2034264	33.99262
#1	.1485969	171.1246	8.783444	21.64741	.1427595	-.002032
#2	.1439631	170.1962	8.748302	21.61442	.1429583	-.004181
#3	.1448397	172.4678	8.838192	21.94949	.1423865	-.003344

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.11171	.1454949	.6484280	5.939914	F 11.90514	.0398871
Stddev	.23088	.0014470	.0058800	.074901	.02079	.0021055
%RSD	20.76800	.9945464	.9068075	1.260972	.1746171	5.278576
#1	-1.02710	.1441527	.6531842	5.911472	11.89340	.0382935
#2	-1.37296	.1453043	.6502461	5.883400	11.89289	.0390938
#3	-.93507	.1470278	.6418537	6.024869	11.92915	.0422740

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5086-05 Acquired: 12/24/2024 2:44:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLN0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038772	1.178390	5.100555	.0274351	.5640051	-.039813
Stddev	.0004384	.009193	.034384	.0013572	.0052302	.000321
%RSD	11.30801	.7801689	.6741213	4.947048	.9273373	.8057587
#1	.0034091	1.170047	5.135826	.0289717	.5585341	-.040181
#2	.0042782	1.176879	5.067133	.0263997	.5645253	-.039590
#3	.0039442	1.188246	5.098706	.0269341	.5689557	-.039669

Elem	Li6707
Units	ppm
Avg	.0828370
Stddev	.0037932
%RSD	4.579159
#1	.0833351
#2	.0788193
#3	.0863566

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2791.145	35900.47	2982.950	2378.552	1875.828
Stddev	3.998	91.81	10.975	4.351	2.958
%RSD	.1432321	.2557410	.3679345	.1829095	.1577006
#1	2794.592	36000.97	2973.927	2383.510	1879.146
#2	2786.762	35879.46	2995.168	2376.772	1874.872
#3	2792.080	35821.00	2979.754	2375.374	1873.466

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5086-06 Acquired: 12/24/2024 2:48:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLN1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0994644	-.032416	.6170715	.0578071	.0338184	55.81672	1.308845
Stddev	.0005078	.004612	.0066842	.0003967	.0021514	.07094	.000907
%RSD	.5105038	14.22636	1.083217	.6862935	6.361496	.1270911	.0692623
#1	.0996571	-.027511	.6093650	.0579786	.0332077	55.76098	1.308473
#2	.0998477	-.036663	.6205567	.0580892	.0320384	55.89657	1.309878
#3	.0988885	-.033074	.6212929	.0573535	.0362091	55.79261	1.308183

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0060389	.0051726	439.5818	.1103535	.1225737	.1628669	162.8778
Stddev	.0001510	.0000759	.9686	.0035992	.0007385	.0060433	.2626
%RSD	2.500816	1.467933	.2203397	3.261536	.6024930	3.710555	.1612534
#1	.0061143	.0051197	438.8331	.1144341	.1229616	.1697474	163.1691
#2	.0061373	.0051384	440.6756	.1076307	.1217221	.1604338	162.8053
#3	.0058650	.0052596	439.2366	.1089957	.1230375	.1584194	162.6590

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.37545	54.54105	.1570646	-.002821	-1.55819	.1487404	.7201393
Stddev	.00116	.12884	.0005735	.000605	.77811	.0059340	.0092809
%RSD	.0093534	.2362171	.3651414	21.45296	49.93676	3.989536	1.288761
#1	12.37627	54.42510	.1566756	-.002866	-.81296	.1436354	.7251013
#2	12.37412	54.51830	.1567949	-.003404	-1.49614	.1552511	.7094322
#3	12.37594	54.67974	.1577232	-.002195	-2.36547	.1473347	.7258844

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.567871	8.749396	.0594579	.0052480	1.403163	4.766345	.0334204
Stddev	.165195	.021280	.0007452	.0003237	.009125	.066122	.0020422
%RSD	2.182843	.2432199	1.253387	6.168304	.6503478	1.387265	6.110634
#1	7.748547	8.749427	.0599072	.0056208	1.403031	4.788405	.0351802
#2	7.530510	8.728100	.0598688	.0050381	1.394105	4.818616	.0311811
#3	7.424557	8.770661	.0585976	.0050852	1.412354	4.692013	.0338999

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5086-06 Acquired: 12/24/2024 2:48:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLN1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6031078	.4000081	.0774365
Stddev	.0062721	.0023867	.0037617
%RSD	1.039955	.5966566	4.857827
#1	.5975552	.3982668	.0798074
#2	.6099109	.4027287	.0794031
#3	.6018573	.3990290	.0730991

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2456.128	31267.02	2707.334	2055.173	1727.650
Stddev	5.527	735.92	19.294	58.076	4.426
%RSD	.2250481	2.353675	.7126603	2.825847	.2561969
#1	2459.342	30438.43	2702.195	1990.409	1727.449
#2	2459.297	31844.58	2691.131	2102.621	1732.174
#3	2449.746	31518.07	2728.678	2072.490	1723.328

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5086-07 Acquired: 12/24/2024 2:51:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLN2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0845665	-.065479	.2508197	.0805478	.0449474	69.96337	.5740051
Stddev	.0077766	.003596	.0009230	.0019601	.0001796	.84416	.0073300
%RSD	9.195844	5.491800	.3679901	2.433505	.3995360	1.206579	1.276983
#1	.0755934	-.061785	.2514839	.0827340	.0451257	69.25164	.5684977
#2	.0893494	-.068968	.2497658	.0799624	.0447666	69.74244	.5711928
#3	.0887568	-.065684	.2512094	.0789471	.0449500	70.89603	.5823247

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0080037	.0033036	244.7490	.1303876	.1309421	.1691527	203.4685
Stddev	.0001007	.0001640	2.6984	.0003921	.0006312	.0025474	2.1255
%RSD	1.257940	4.963094	1.102521	.3007088	.4820381	1.505987	1.044651
#1	.0081054	.0031829	242.6197	.1308054	.1308340	.1691775	201.6372
#2	.0080015	.0034903	243.8437	.1303295	.1316203	.1665930	202.9689
#3	.0079041	.0032376	247.7837	.1300277	.1303719	.1716877	205.7993

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.147382	77.09338	.1883708	-.004221	-1.47305	.1820842	.5245169
Stddev	.044024	.92236	.0012732	.000597	.69686	.0102775	.0088814
%RSD	1.061486	1.196417	.6758915	14.13920	47.30695	5.644349	1.693245
#1	4.107397	76.28488	.1877575	-.004860	-2.05750	.1844810	.5143114
#2	4.140190	76.89723	.1875204	-.004124	-.70185	.1708201	.5304941
#3	4.194560	78.09804	.1898346	-.003678	-1.65981	.1909515	.5287452

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.658761	8.334031	.0603265	.0040157	.7418482	4.810723	.0289548
Stddev	.233617	.006737	.0048801	.0003030	.0052144	.032780	.0033863
%RSD	2.418709	.0808335	8.089487	7.544487	.7028928	.6814016	11.69516
#1	9.405474	8.329677	.0551082	.0036767	.7363331	4.780984	.0315238
#2	9.705024	8.341791	.0647775	.0042599	.7466980	4.805312	.0251174
#3	9.865786	8.330625	.0610938	.0041106	.7425135	4.845872	.0302231

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5086-07 Acquired: 12/24/2024 2:51:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLN2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8961610	.0237745	.1046639
Stddev	.0097003	.0002543	.0008240
%RSD	1.082426	1.069503	.7872598
#1	.8887611	.0235781	.1037481
#2	.8925790	.0236837	.1048986
#3	.9071429	.0240617	.1053451

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2560.260	33088.66	2801.129	2171.440	1770.714
Stddev	3.346	160.22	18.957	20.747	1.642
%RSD	.1306894	.4842165	.6767474	.9554294	.0927155
#1	2563.988	32926.55	2807.564	2147.701	1771.995
#2	2557.518	33246.92	2816.031	2186.097	1768.863
#3	2559.273	33092.52	2779.793	2180.521	1771.285

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5086-08 Acquired: 12/24/2024 2:55:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLN2D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0859127	-.069305	.2478219	.0774195	.0458013	69.70622	.5724395
Stddev	.0040320	.004294	.0026090	.0023016	.0041072	.78884	.0056312
%RSD	4.693179	6.195997	1.052790	2.972897	8.967515	1.131659	.9837131
#1	.0902638	-.064421	.2485855	.0797982	.0449654	70.53542	.5783211
#2	.0823025	-.071001	.2499639	.0772568	.0421764	68.96515	.5670976
#3	.0851718	-.072492	.2449162	.0752036	.0502623	69.61807	.5718999

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0080966	.0033346	243.3597	.1281807	.1304036	.1695901	202.5714
Stddev	.0000446	.0000882	2.5915	.0011272	.0002754	.0051558	2.2460
%RSD	.5512104	2.644222	1.064881	.8793702	.2111553	3.040161	1.108739
#1	.0081062	.0032331	245.8753	.1281722	.1302555	.1747700	204.9443
#2	.0080479	.0033778	240.6985	.1270578	.1302339	.1695416	200.4786
#3	.0081356	.0033928	243.5053	.1293121	.1307213	.1644587	202.2913

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.127002	77.13105	.1887233	-.004019	-1.04276	.1764868	.5318601
Stddev	.039398	.78391	.0007127	.000988	.81391	.0086631	.0070302
%RSD	.9546433	1.016338	.3776391	24.57677	78.05281	4.908639	1.321821
#1	4.169536	77.99371	.1880343	-.005048	-.33205	.1863407	.5288434
#2	4.091758	76.46226	.1886780	-.003930	-.86558	.1730511	.5268417
#3	4.119713	76.93719	.1894576	-.003078	-1.93067	.1700685	.5398953

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.642117	8.298519	.0627504	.0040816	.7372197	4.896864	.0271637
Stddev	.204919	.006398	.0017844	.0006268	.0103742	.067078	.0009522
%RSD	2.125247	.0770954	2.843580	15.35693	1.407201	1.369806	3.505413
#1	9.792362	8.294396	.0635880	.0033580	.7444052	4.971804	.0277355
#2	9.408686	8.295272	.0607014	.0044299	.7419275	4.842442	.0276910
#3	9.725302	8.305889	.0639620	.0044568	.7253264	4.876345	.0260645

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5086-08 Acquired: 12/24/2024 2:55:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLN2D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8986897	.0235499	.1055329
Stddev	.0051032	.0011792	.0018927
%RSD	.5678466	5.007180	1.793439
#1	.9037676	.0236974	.1033954
#2	.8935616	.0223039	.1062075
#3	.8987399	.0246484	.1069959

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2569.756	33241.03	2814.937	2174.202	1778.640
Stddev	3.319	65.64	42.544	3.495	3.166
%RSD	.1291681	.1974675	1.511375	.1607532	.1780142
#1	2566.408	33165.96	2766.964	2178.183	1775.411
#2	2573.046	33287.63	2848.087	2171.636	1781.740
#3	2569.812	33269.51	2829.760	2172.788	1778.770

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5086-07LX5 Acquired: 12/24/2024 2:59:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLN2L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0128169	-.004199	.0573758	.0072140	.0116474	17.00654	.1385672
Stddev	.0018224	.002583	.0024999	.0020270	.0017957	.59849	.0045044
%RSD	14.21847	61.52076	4.357066	28.09741	15.41684	3.519150	3.250710
#1	.0108843	-.006161	.0588042	.0081858	.0135185	16.51960	.1360753
#2	.0130624	-.005164	.0544892	.0085722	.0099381	17.67469	.1437669
#3	.0145041	-.001272	.0588339	.0048842	.0114857	16.82534	.1358592

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019505	.0004435	59.85418	.0309247	.0428779	.0403192	50.18249
Stddev	.0001896	.0000863	2.13548	.0005165	.0004905	.0064701	1.81401
%RSD	9.718597	19.47013	3.567804	1.670197	1.143858	16.04720	3.614831
#1	.0020018	.0004160	58.32057	.0303399	.0429223	.0477598	48.62618
#2	.0021091	.0003742	62.29320	.0313185	.0423668	.0371827	52.17475
#3	.0017406	.0005402	58.94877	.0311156	.0433447	.0360151	49.74653

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.023415	19.01201	.0385022	-.000550	-2.05774	.0331692	.1394590
Stddev	.035122	.66553	.0010077	.000814	.32892	.0073764	.0143207
%RSD	3.431811	3.500602	2.617173	147.9121	15.98429	22.23876	10.26875
#1	.998021	18.40780	.0373778	-.001358	-1.68505	.0295144	.1530693
#2	1.063496	19.72537	.0388055	.000270	-2.30741	.0283338	.1407873
#3	1.008727	18.90285	.0393234	-.000563	-2.18077	.0416595	.1245205

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.266588	1.698700	.0104435	.0026775	.1596176	1.339356	.0078536
Stddev	.228838	.036881	.0007621	.0005330	.0028279	.035222	.0017172
%RSD	18.06728	2.171148	7.297362	19.90671	1.771644	2.629764	21.86517
#1	1.002492	1.673130	.0112037	.0028504	.1565505	1.319020	.0083212
#2	1.406186	1.681991	.0104471	.0020795	.1621215	1.380027	.0092886
#3	1.391084	1.740978	.0096796	.0031025	.1601808	1.319021	.0059510

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5086-07LX5 Acquired: 12/24/2024 2:59:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLN2L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2249220	.0051954	.0192771
Stddev	.0092168	.0005915	.0033371
%RSD	4.097790	11.38437	17.31138
#1	.2214006	.0054802	.0157279
#2	.2353804	.0055906	.0197521
#3	.2179850	.0045154	.0223512

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2171.822	28202.76	2298.841	1860.507	1827.849
Stddev	44.286	129.68	74.956	13.592	36.653
%RSD	2.039104	.4597970	3.260597	.7305507	2.005266
#1	2184.240	28232.98	2343.181	1851.701	1839.513
#2	2208.573	28060.64	2212.298	1853.659	1857.250
#3	2122.652	28314.66	2341.045	1876.160	1786.783

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5086-09 Acquired: 12/24/2024 3:03:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLN2S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1597134	.0182224	.2814456	.2097305	.1855599	72.62919	3.597673
Stddev	.0028142	.0035458	.0006973	.0054608	.0012594	.23973	.011018
%RSD	1.762039	19.45868	.2477416	2.603730	.6787037	.3300748	.3062418
#1	.1606112	.0218764	.2815036	.2041248	.1841155	72.69000	3.594662
#2	.1619691	.0179951	.2821121	.2150339	.1861361	72.36492	3.588475
#3	.1565598	.0147956	.2807212	.2100328	.1864282	72.83267	3.609883

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0814621	.0960279	241.0787	.4597946	1.086131	.5336138	202.1902
Stddev	.0005957	.0000904	.9284	.0017384	.000797	.0076833	.6186
%RSD	.7312445	.0941009	.3851028	.3780736	.0733370	1.439856	.3059475
#1	.0820432	.0959601	240.7116	.4611250	1.086356	.5402775	202.6199
#2	.0814901	.0961305	240.3900	.4578277	1.085247	.5252096	201.4812
#3	.0808529	.0959931	242.1345	.4604310	1.086791	.5353544	202.4694

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.838791	76.13332	1.120056	.0506178	-1.24789	.9341497	1.248267
Stddev	.013501	.25555	.000224	.0014195	.33868	.0071727	.012820
%RSD	.2790187	.3356601	.0200243	2.804306	27.14055	.7678334	1.027023
#1	4.845911	76.37989	1.120311	.0489854	-1.44392	.9262689	1.235136
#2	4.823220	75.86965	1.119971	.0513058	-1.44293	.9402963	1.248913
#3	4.847242	76.15041	1.119887	.0515621	-.85681	.9358840	1.260751

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.745768	8.220215	.0621293	.0038746	.7333630	5.595165	.0274626
Stddev	.134850	.018390	.0009934	.0007082	.0048835	.059522	.0029961
%RSD	1.383682	.2237133	1.598889	18.27920	.6659080	1.063805	10.90976
#1	9.594891	8.201873	.0631235	.0040365	.7291035	5.660519	.0277161
#2	9.854549	8.220120	.0611367	.0044879	.7386929	5.580914	.0303239
#3	9.787866	8.238652	.0621276	.0030994	.7322926	5.544063	.0243478

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5086-09 Acquired: 12/24/2024 3:03:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLN2S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.9293739	.0231135	.1054797
Stddev	.0118516	.0009379	.0029322
%RSD	1.275222	4.057898	2.779832
#1	.9230996	.0220813	.1060466
#2	.9219786	.0233456	.1080870
#3	.9430436	.0239136	.1023055

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2559.674	33070.21	2799.808	2170.386	1778.268
Stddev	4.338	62.01	20.078	8.121	3.941
%RSD	.1694709	.1875208	.7171192	.3741699	.2215957
#1	2564.180	33118.78	2786.154	2178.355	1782.276
#2	2555.527	33000.35	2790.410	2162.121	1774.398
#3	2559.316	33091.49	2822.862	2170.683	1778.130

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5086-10 Acquired: 12/24/2024 3:07:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLN3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1382997	-.031647	2.387689	.0635103	.0324690	57.71683	1.213240
Stddev	.0028635	.007376	.004585	.0023169	.0044509	.08377	.002821
%RSD	2.070501	23.30572	.1920341	3.648012	13.70820	.1451332	.2325289
#1	.1378826	-.025362	2.388818	.0661732	.0359918	57.65013	1.210448
#2	.1356677	-.029813	2.382645	.0624017	.0274668	57.68952	1.213184
#3	.1413489	-.039767	2.391605	.0619560	.0339485	57.81085	1.216089

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071688	.0081910	131.3906	.1412540	.1103102	.3516930	140.7779
Stddev	.0001279	.0000919	.1500	.0004029	.0001285	.0066424	.3725
%RSD	1.783564	1.122506	.1141445	.2852442	.1165047	1.888695	.2646176
#1	.0071755	.0081562	131.2743	.1409323	.1101653	.3539113	140.3479
#2	.0072932	.0081216	131.3375	.1411239	.1104104	.3442253	141.0029
#3	.0070377	.0082953	131.5599	.1417060	.1103550	.3569424	140.9829

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.669679	41.86363	.1946655	-.001497	-1.70203	.1661927	1.547068
Stddev	.009402	.20911	.0006207	.000249	1.08571	.0029619	.010584
%RSD	.1084461	.4994915	.3188331	16.65241	63.78949	1.782229	.6841458
#1	8.664719	41.67346	.1939702	-.001785	-2.88762	.1660828	1.534988
#2	8.663795	42.08756	.1948624	-.001367	-1.46216	.1632873	1.554713
#3	8.680522	41.82987	.1951638	-.001340	-.75630	.1692081	1.551504

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.466577	8.245907	.0536926	.0106973	4.469478	5.397052	.0936212
Stddev	.116250	.015711	.0016332	.0009546	.013420	.036183	.0018977
%RSD	2.602674	.1905277	3.041813	8.923502	.3002694	.6704291	2.027039
#1	4.403345	8.254000	.0550114	.0101926	4.454625	5.403273	.0958103
#2	4.600738	8.227800	.0542006	.0101010	4.480733	5.358161	.0924428
#3	4.395648	8.255921	.0518657	.0117982	4.473076	5.429721	.0926103

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5086-10 Acquired: 12/24/2024 3:07:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLN3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6095490	.0999538	.0627752
Stddev	.0047511	.0002087	.0020003
%RSD	.7794380	.2087589	3.186427
#1	.6065140	.0999233	.0639624
#2	.6071087	.0997620	.0638974
#3	.6150243	.1001760	.0604658

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2540.096	32726.16	2748.386	2155.966	1851.381
Stddev	3.213	63.04	18.424	8.536	1.538
%RSD	.1264941	.1926152	.6703579	.3959412	.0830995
#1	2541.975	32673.12	2732.963	2150.736	1850.691
#2	2541.927	32709.52	2768.788	2165.817	1853.144
#3	2536.386	32795.85	2743.408	2151.346	1850.308

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5086-11 Acquired: 12/24/2024 3:11:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLN4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1322018	-.029343	2.662633	.0534487	.0312019	53.96177	1.209825
Stddev	.0033748	.001902	.004315	.0021270	.0020613	1.36400	.029806
%RSD	2.552769	6.480769	.1620751	3.979534	6.606308	2.527720	2.463631
#1	.1331771	-.028577	2.667122	.0513881	.0288343	52.40576	1.175920
#2	.1349816	-.031509	2.658515	.0556364	.0321741	54.52851	1.221658
#3	.1284468	-.027945	2.662261	.0533217	.0325974	54.95104	1.231898

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071378	.0084620	137.1995	.1351559	.1067529	.3968602	126.6157
Stddev	.0001329	.0000476	3.1880	.0011738	.0003425	.0090820	2.9688
%RSD	1.861843	.5621117	2.323611	.8684835	.3208430	2.288460	2.344749
#1	.0069991	.0085164	133.5734	.1363018	.1065802	.3866028	123.2171
#2	.0071503	.0084286	138.4634	.1339560	.1065311	.4038790	127.9263
#3	.0072640	.0084409	139.5617	.1352098	.1071474	.4000987	128.7036

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.410811	40.98574	.1984040	-.002455	-1.38255	.1759342	1.616377
Stddev	.175467	1.13700	.0003302	.001103	.68926	.0113799	.012268
%RSD	2.367720	2.774125	.1664150	44.91698	49.85426	6.468241	.7589990
#1	7.210256	39.74189	.1983301	-.001652	-.96629	.1629288	1.605509
#2	7.486145	41.24383	.1987648	-.002002	-1.00322	.1808101	1.629680
#3	7.536032	41.97151	.1981170	-.003713	-2.17816	.1840637	1.613943

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.664301	7.310321	.0593110	.0108704	4.355341	4.772724	.0828757
Stddev	.073002	.010139	.0032346	.0003531	.025514	.100602	.0024212
%RSD	1.565131	.1386899	5.453571	3.247976	.5857989	2.107848	2.921534
#1	4.593763	7.314341	.0559841	.0104660	4.384698	4.667452	.0805616
#2	4.739541	7.298789	.0595045	.0111176	4.342791	4.782828	.0853914
#3	4.659601	7.317833	.0624446	.0110275	4.338533	4.867893	.0826740

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5086-11 Acquired: 12/24/2024 3:11:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLN4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8554112	.2274049	.0577728
Stddev	.0173255	.0048225	.0015734
%RSD	2.025402	2.120675	2.723387
#1	.8366397	.2218825	.0565597
#2	.8588054	.2295469	.0595506
#3	.8707883	.2307854	.0572081

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2441.777	31457.87	2672.523	2070.896	1815.457
Stddev	4.628	81.02	53.030	6.631	1.874
%RSD	.1895288	.2575378	1.984251	.3202149	.1032345
#1	2447.106	31449.40	2732.865	2078.105	1816.586
#2	2438.767	31381.42	2651.369	2065.055	1816.492
#3	2439.458	31542.78	2633.336	2069.529	1813.294

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5086-12 Acquired: 12/24/2024 3:14:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLN5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1523493	-.016970	1.327470	.0537437	.0345851	56.10063	1.573848
Stddev	.0052781	.003026	.002086	.0015160	.0023651	.43300	.011208
%RSD	3.464500	17.83258	.1571547	2.820844	6.838499	.7718305	.7121365
#1	.1513862	-.015101	1.328916	.0553898	.0362999	55.61367	1.560933
#2	.1580427	-.020462	1.325078	.0524049	.0355684	56.24589	1.579584
#3	.1476190	-.015348	1.328415	.0534363	.0318870	56.44232	1.581028

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0062551	.0137430	458.0619	.1101932	.1371258	.3183730	149.4342
Stddev	.0000963	.0000938	2.4897	.0012377	.0007230	.0127990	1.0124
%RSD	1.539382	.6822948	.5435197	1.123183	.5272355	4.020117	.6775147
#1	.0061524	.0138354	455.4143	.1088657	.1362941	.3080319	148.2662
#2	.0063433	.0137457	458.4156	.1113154	.1376045	.3143998	149.9766
#3	.0062696	.0136479	460.3557	.1103986	.1374787	.3326874	150.0599

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.57649	52.04681	.1924029	-.003103	-1.20369	.1820317	1.030747
Stddev	.10192	.29556	.0003700	.001282	.95018	.0082800	.010367
%RSD	.6543341	.5678644	.1922925	41.33365	78.93885	4.548642	1.005812
#1	15.45884	51.73441	.1922976	-.004572	-1.40434	.1739730	1.040277
#2	15.63287	52.32200	.1920971	-.002524	-2.03751	.1816056	1.019707
#3	15.63777	52.08401	.1928142	-.002211	-.16921	.1905165	1.032256

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.454296	6.870137	.0536154	.0115439	3.023994	4.960702	.0586686
Stddev	.103243	.016078	.0029496	.0006485	.003957	.047372	.0012756
%RSD	1.892875	.2340297	5.501347	5.617804	.1308457	.9549393	2.174296
#1	5.335102	6.874927	.0559470	.0108008	3.026932	4.909591	.0598267
#2	5.511987	6.852209	.0545996	.0118357	3.019495	5.003134	.0573013
#3	5.515800	6.883277	.0502996	.0119952	3.025554	4.969381	.0588778

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5086-12 Acquired: 12/24/2024 3:14:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLN5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5827785	.3468814	.0751086
Stddev	.0014755	.0015750	.0022918
%RSD	.2531901	.4540388	3.051334
#1	.5810753	.3467494	.0734359
#2	.5835909	.3453765	.0741690
#3	.5836692	.3485182	.0777209

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2504.647	32130.40	2739.242	2112.970	1754.845
Stddev	7.173	53.41	18.814	14.561	2.637
%RSD	.2863792	.1662251	.6868389	.6891244	.1502854
#1	2511.154	32075.82	2756.474	2096.877	1757.518
#2	2496.955	32182.56	2719.169	2116.799	1752.245
#3	2505.831	32132.82	2742.084	2125.234	1754.772

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5086-13 Acquired: 12/24/2024 3:18:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLN6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1044328	-.031706	.9378747	.0580078	.0305082	60.69615	1.116562
Stddev	.0034472	.001863	.0040585	.0047219	.0002716	.35339	.007422
%RSD	3.300920	5.877459	.4327372	8.140068	.8901601	.5822288	.6647412
#1	.1080428	-.033857	.9355544	.0548285	.0302248	60.35137	1.108359
#2	.1040803	-.030605	.9355087	.0557615	.0305336	60.67951	1.118514
#3	.1011754	-.030655	.9425610	.0634335	.0307662	61.05757	1.122813

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0064643	.0056668	167.6968	.1003310	.1097806	.2000237	141.6912
Stddev	.0000802	.0001851	1.0996	.0011566	.0002365	.0034838	.6777
%RSD	1.241267	3.266069	.6556830	1.152804	.2154519	1.741701	.4782703
#1	.0064034	.0057154	166.9148	.0990184	.1099417	.2034682	140.9510
#2	.0064344	.0054623	167.2215	.1007737	.1095091	.2001011	141.8416
#3	.0065552	.0058227	168.9540	.1012008	.1098912	.1965019	142.2811

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.344729	32.63550	.1276999	-.002452	-1.25546	.1501132	.7111694
Stddev	.042314	.02234	.0001935	.000094	.21947	.0055515	.0069366
%RSD	.4528153	.0684562	.1515676	3.833513	17.48157	3.698179	.9753733
#1	9.301365	32.61105	.1277590	-.002561	-1.14301	.1564759	.7055491
#2	9.346913	32.65484	.1278571	-.002400	-1.50837	.1476066	.7189217
#3	9.385909	32.64062	.1274837	-.002397	-1.11500	.1462570	.7090374

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.860050	5.224349	.0424110	.0086628	2.117067	5.576825	.0452838
Stddev	.256104	.003158	.0016495	.0005891	.005504	.019346	.0030046
%RSD	6.634730	.0604555	3.889404	6.800501	.2599768	.3468917	6.635019
#1	3.907907	5.221782	.0414667	.0080832	2.113062	5.569891	.0487530
#2	3.583393	5.223388	.0414506	.0086443	2.123343	5.561901	.0435194
#3	4.088849	5.227876	.0443157	.0092610	2.114796	5.598681	.0435789

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5086-13 Acquired: 12/24/2024 3:18:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLN6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4986418	.1295256	.0553244
Stddev	.0035296	.0015670	.0046299
%RSD	.7078389	1.209783	8.368680
#1	.4966829	.1287322	.0503522
#2	.4965262	.1285140	.0561091
#3	.5027164	.1313306	.0595118

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2578.444	33299.96	2790.748	2193.604	1841.743
Stddev	1.679	98.90	7.594	2.697	1.458
%RSD	.0651348	.2969838	.2720986	.1229372	.0791700
#1	2576.537	33367.71	2785.641	2194.749	1840.245
#2	2579.702	33186.47	2799.474	2190.524	1843.157
#3	2579.094	33345.70	2787.129	2195.540	1841.826

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5086-14 Acquired: 12/24/2024 3:22:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLN7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0572011	-.003599	.4869470	.0270462	.0249451	42.06791
Stddev	.0019098	.009908	.0027291	.0026442	.0032947	.19951
%RSD	3.338678	275.2612	.5604483	9.776433	13.20793	.4742486
#1	.0593373	-.002341	.4847799	.0293421	.0285321	42.08791
#2	.0556589	-.014076	.4860491	.0241552	.0220537	41.85916
#3	.0566071	.005619	.4900119	.0276412	.0242496	42.25666

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6653219	.0048026	.0041229	F 904.7830	.0760461	.0988070
Stddev	.0029223	.0001547	.0001591	3.2858	.0006933	.0006109
%RSD	.4392356	3.220511	3.859309	.3631621	.9116674	.6182549
#1	.6626962	.0049651	.0042600	906.6325	.0756611	.0981057
#2	.6647992	.0046572	.0041603	900.9892	.0756307	.0990921
#3	.6684703	.0047854	.0039484	906.7273	.0768465	.0992232

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1500700	122.3497	7.466752	144.7918	.1070324	-.003457
Stddev	.0019918	.6749	.027334	.8057	.0009178	.001218
%RSD	1.327225	.5515760	.3660714	.5564550	.8575352	35.23395
#1	.1516814	122.6581	7.470992	144.3886	.1060429	-.004851
#2	.1478431	121.5757	7.437546	144.2674	.1078559	-.002599
#3	.1506855	122.8152	7.491718	145.7196	.1071983	-.002920

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.64853	.1250173	.6117512	2.749765	4.576271	.0524746
Stddev	.29466	.0087119	.0058212	.149327	.019427	.0020859
%RSD	17.87435	6.968517	.9515662	5.430543	.4245098	3.975149
#1	-1.92243	.1150075	.6084713	2.761236	4.562267	.0515533
#2	-1.68640	.1308876	.6184723	2.595033	4.568097	.0548625
#3	-1.33676	.1291568	.6083100	2.893025	4.598449	.0510079

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5086-14 Acquired: 12/24/2024 3:22:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLN7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0036423	1.758192	4.109177	.0330787	.6016262	.8587387
Stddev	.0006297	.014493	.040945	.0008672	.0099189	.0009938
%RSD	17.28710	.8243153	.9964232	2.621510	1.648687	.1157270
#1	.0035492	1.741893	4.096327	.0327109	.5972669	.8597491
#2	.0043134	1.763054	4.076198	.0324561	.6129782	.8577623
#3	.0030644	1.769628	4.155005	.0340691	.5946334	.8587047

Elem	Li6707
Units	ppm
Avg	.0582506
Stddev	.0011493
%RSD	1.972950
#1	.0571129
#2	.0582278
#3	.0594111

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2321.949	30052.53	2622.374	1973.491	1650.271
Stddev	1.439	180.80	10.541	8.267	4.774
%RSD	.0619849	.6015969	.4019555	.4188968	.2892766
#1	2323.280	30006.91	2618.146	1967.522	1651.855
#2	2322.144	29898.91	2634.372	1970.024	1654.051
#3	2320.421	30251.77	2614.604	1982.926	1644.906

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5086-15 Acquired: 12/24/2024 3:26:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLN8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1009666	-.024073	.4192659	.0408045	.0296511	28.60015
Stddev	.0020891	.001906	.0008855	.0024622	.0026441	.04481
%RSD	2.069133	7.919024	.2112044	6.034235	8.917391	.1566641
#1	.0996850	-.021988	.4202226	.0383280	.0318606	28.55556
#2	.1033773	-.024501	.4184750	.0408333	.0303711	28.64517
#3	.0998374	-.025728	.4191003	.0432522	.0267216	28.59972

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9446998	.0056327	.0044548	F 1647.419	.0525598	.1158525
Stddev	.0015418	.0001501	.0001544	10.692	.0003836	.0016103
%RSD	.1632086	2.664925	3.466280	.6489990	.7299156	1.389934
#1	.9430067	.0058047	.0045905	1654.893	.0523063	.1157459
#2	.9450695	.0055286	.0042868	1635.172	.0523720	.1175134
#3	.9460232	.0055646	.0044872	1652.192	.0530011	.1142982

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1436507	171.1991	9.679206	315.5501	.1559005	-.004357
Stddev	.0048413	.0118	.007018	.3752	.0014901	.000784
%RSD	3.370185	.0068896	.0725109	.1189154	.9558212	17.99759
#1	.1389209	171.2125	9.675115	315.8840	.1551319	-.004498
#2	.1485963	171.1903	9.687310	315.6223	.1576181	-.005061
#3	.1434348	171.1945	9.675192	315.1440	.1549517	-.003512

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.64452	.0901120	.3309624	4.370662	5.258126	.1059095
Stddev	.61992	.0059421	.0101439	.159704	.035695	.0019339
%RSD	37.69576	6.594105	3.064970	3.654006	.6788506	1.826019
#1	-.93912	.0871807	.3352170	4.220289	5.228458	.1041819
#2	-1.89189	.0862052	.3193840	4.538295	5.297738	.1079987
#3	-2.10256	.0969502	.3382862	4.353401	5.248182	.1055478

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5086-15 Acquired: 12/24/2024 3:26:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLN8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032905	4.231545	3.402915	.0349309	.1403595	1.104758
Stddev	.0002592	.034906	.020782	.0009496	.0043112	.006613
%RSD	7.876805	.8248984	.6107140	2.718521	3.071544	.5985754
#1	.0032168	4.206624	3.426639	.0358754	.1369547	1.099977
#2	.0035785	4.271439	3.394181	.0349411	.1452071	1.112304
#3	.0030761	4.216571	3.387926	.0339762	.1389169	1.101992

Elem	Li6707
Units	ppm
Avg	.0467817
Stddev	.0025321
%RSD	5.412701
#1	.0461819
#2	.0495599
#3	.0446032

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2234.606	28884.99	2556.427	1878.624	1535.895
Stddev	8.787	115.98	12.425	8.995	8.963
%RSD	.3932410	.4015325	.4860363	.4788174	.5835890
#1	2238.828	28838.47	2542.082	1882.193	1541.887
#2	2224.505	29017.01	2563.825	1885.287	1525.590
#3	2240.487	28799.48	2563.374	1868.392	1540.207

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5086-16 Acquired: 12/24/2024 3:30:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLN9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0663731	-.010194	.3274208	.0226490	.0258577	30.53118
Stddev	.0016470	.006075	.0018505	.0055068	.0044643	.47166
%RSD	2.481504	59.59330	.5651711	24.31346	17.26481	1.544841
#1	.0647052	-.013228	.3293605	.0171581	.0210831	29.98818
#2	.0664155	-.014154	.3256748	.0281715	.0299279	30.76629
#3	.0679985	-.003200	.3272272	.0226173	.0265621	30.83908

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4680318	.0053001	.0034652	F 1501.670	.0528200	.1072787
Stddev	.0079905	.0000165	.0000932	12.156	.0004119	.0006124
%RSD	1.707249	.3113826	2.690650	.8094699	.7797374	.5708002
#1	.4588609	.0052854	.0034605	1493.480	.0523729	.1071687
#2	.4717404	.0052969	.0033743	1515.637	.0531839	.1067288
#3	.4734940	.0053179	.0035606	1495.893	.0529033	.1079386

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1300213	132.3385	5.760435	273.0962	.1365395	-.004039
Stddev	.0012538	2.3008	.096010	4.8366	.0012480	.001098
%RSD	.9642784	1.738576	1.666714	1.771027	.9139975	27.19523
#1	.1300402	129.6904	5.650390	267.5260	.1375437	-.004652
#2	.1287581	133.4767	5.803819	275.5308	.1351424	-.002771
#3	.1312655	133.8484	5.827096	276.2317	.1369324	-.004693

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.57435	.0705301	.2439321	4.868401	4.263197	.0996020
Stddev	.54106	.0028593	.0202393	.219059	.029019	.0042736
%RSD	34.36745	4.054039	8.297114	4.499617	.6806828	4.290696
#1	-1.48890	.0688147	.2278126	4.627083	4.260949	.0949190
#2	-1.08110	.0689446	.2373375	4.923399	4.235367	.1032910
#3	-2.15306	.0738309	.2666463	5.054720	4.293274	.1005961

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5086-16 Acquired: 12/24/2024 3:30:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLN9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022327	3.593045	3.850216	.0280715	.1225117	1.157942
Stddev	.0008635	.018161	.059655	.0018721	.0059152	.019770
%RSD	38.67662	.5054553	1.549383	6.669064	4.828284	1.707350
#1	.0023018	3.586723	3.781412	.0285610	.1156973	1.135114
#2	.0013367	3.578889	3.887486	.0260033	.1263231	1.169495
#3	.0030596	3.613522	3.881748	.0296503	.1255146	1.169218

Elem	Li6707
Units	ppm
Avg	.0610793
Stddev	.0040584
%RSD	6.644523
#1	.0590001
#2	.0584817
#3	.0657559

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2246.794	29146.31	2586.439	1889.411	1554.956
Stddev	1.659	176.41	35.158	3.266	1.921
%RSD	.0738344	.6052606	1.359335	.1728329	.1235644
#1	2246.733	29052.84	2623.009	1886.332	1556.206
#2	2248.483	29036.31	2552.887	1889.065	1555.918
#3	2245.166	29349.79	2583.421	1892.836	1552.744

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCV010 Acquired: 12/24/2024 3:34:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV010 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.839688	4.508840	23.17994	4.707536	4.843668	384.5337	9.572270
Stddev	.021970	.003534	.03786	.007639	.007983	.2063	.020985
%RSD	.4539473	.0783840	.1633120	.1622797	.1648105	.0536463	.2192296
#1	4.829808	4.505010	23.14382	4.698954	4.835071	384.3079	9.595089
#2	4.824392	4.511975	23.17669	4.710060	4.850847	384.5807	9.567922
#3	4.864863	4.509535	23.21932	4.713593	4.845085	384.7124	9.553800

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4683545	2.357518	379.5284	14.94781	2.451858	14.04756	379.1695
Stddev	.0038911	.002695	.3620	.00906	.004476	.03166	.5645
%RSD	.8307917	.1142980	.0953751	.0605787	.1825630	.2253686	.1488785
#1	.4728428	2.354599	379.1597	14.95589	2.446828	14.02929	378.9363
#2	.4659327	2.358043	379.5421	14.94953	2.453343	14.02928	379.8133
#3	.4662880	2.359911	379.8833	14.93802	2.455403	14.08412	378.7590

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.94668	374.0531	2.345240	1.184124	365.8177	2.333518	14.34651
Stddev	.01746	.3738	.000706	.001465	1.5628	.017579	.18831
%RSD	.1251776	.0999214	.0300949	.1237416	.4272087	.7533319	1.312600
#1	13.93017	374.3119	2.344541	1.183329	367.4372	2.333205	14.13019
#2	13.96495	374.2228	2.345228	1.185815	364.3186	2.351252	14.43554
#3	13.94492	373.6246	2.345953	1.183227	365.6972	2.316098	14.47380

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	137.8582	4.643192	4.694760	4.693535	4.803415	4.530560	4.709690
Stddev	.5379	.009962	.028845	.007651	.003980	.032895	.010391
%RSD	.3901500	.2145409	.6144181	.1630156	.0828569	.7260736	.2206196
#1	137.2448	4.647943	4.727947	4.684877	4.800697	4.567613	4.697816
#2	138.0807	4.631744	4.680622	4.696340	4.801565	4.519273	4.714136
#3	138.2491	4.649889	4.675711	4.699388	4.807983	4.504794	4.717118

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCV010 Acquired: 12/24/2024 3:34:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV010 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	4.685402	4.548026	4.683100
Stddev	.010109	.015188	.007915
%RSD	.2157634	.3339490	.1690097
#1	4.674818	4.533757	4.674869
#2	4.686431	4.546329	4.683776
#3	4.694958	4.563991	4.690655

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1818.664	24658.76	2154.514	1534.973	1590.956
Stddev	7.328	162.10	7.366	14.415	5.209
%RSD	.4029601	.6573566	.3418774	.9391052	.3274287
#1	1816.979	24819.71	2154.338	1550.589	1589.673
#2	1812.325	24661.01	2161.966	1532.158	1586.509
#3	1826.688	24495.54	2147.237	1522.174	1596.687

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCB010 Acquired: 12/24/2024 3:37:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB010 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006231	-.001177	.0054591	.0038465	-.000688	.0561738	.0008658
Stddev	.003938	.000542	.0019303	.0026453	.001268	.0208922	.0015839
%RSD	63.20980	46.02920	35.35916	68.77067	184.1870	37.19199	182.9410
#1	-.007070	-.001308	.0076439	.0058010	.000705	.0361173	-.000960
#2	-.009681	-.000582	.0039847	.0049022	-.001773	.0545924	.001681
#3	-.001940	-.001642	.0047488	.0008364	-.000997	.0778118	.001876

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001037	.0000125	-.001882	-.000243	-.000475	.0002678	.0309893
Stddev	.0001148	.0000331	.008801	.000752	.000076	.0120658	.0196534
%RSD	110.6738	265.3345	467.7143	309.5886	16.09432	4506.180	63.42004
#1	.0000947	.0000048	-.001212	.000254	-.000413	-.008251	.0210333
#2	.0002228	-.000016	.006566	-.001108	-.000561	-.005020	.0536285
#3	-.000006	.000049	-.010998	.000125	-.000451	.014075	.0183062

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021252	.1000806	.0007934	-.000850	-1.42284	.0043838	-.006111
Stddev	.0009393	.0095809	.0002033	.001117	.81985	.0065598	.013231
%RSD	44.19990	9.573136	25.62491	131.4916	57.62033	149.6393	216.5159
#1	.0010533	.1078693	.0006270	-.000993	-1.88508	.0119583	.007663
#2	.0028047	.0893822	.0007330	.000332	-1.90719	.0005652	-.007273
#3	.0025176	.1029905	.0010200	-.001889	-.47625	.0006277	-.018722

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.05009	.0034210	.0030656	.0004758	-.000032	-.085116	.0006779
Stddev	.13977	.0022003	.0022067	.0007217	.003843	.000490	.0003236
%RSD	13.31000	64.31780	71.98087	151.6908	11996.26	.5754159	47.74194
#1	-1.21142	.0057313	.0020576	.0013092	-.000642	-.085521	.0003986
#2	-.97300	.0013503	.0055962	.0000561	.004079	-.084572	.0006025
#3	-.96584	.0031814	.0015429	.0000621	-.003534	-.085255	.0010325

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCB010 Acquired: 12/24/2024 3:37:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB010 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0031328	.0003224	.0049344
Stddev	.0024755	.0000975	.0027582
%RSD	79.02050	30.24946	55.89639
#1	.0041152	.0002392	.0020760
#2	.0049663	.0002983	.0051474
#3	.0003168	.0004297	.0075800

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2077.812	26772.69	2188.213	1763.729	1863.355
Stddev	4.627	197.43	7.107	14.697	3.556
%RSD	.2226965	.7374203	.3247655	.8332922	.1908550
#1	2082.855	26945.69	2189.983	1776.965	1867.402
#2	2073.762	26557.62	2194.267	1747.913	1861.930
#3	2076.818	26814.75	2180.388	1766.310	1860.731

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

Prep Standard - Chemical Standard Summary

Order ID : P5033

Test : Metals CLP Full

Prepbatch ID : PB165373,PB165669,

Sequence ID/Qc Batch ID: LB133959,LB134069,

Standard ID :
MP83122,MP83134,MP83141,MP83147,MP83498,MP83499,MP83500,MP83501,MP83502,MP83503,MP83504,MP835
05,MP83506,MP83507,MP83508,MP83509,MP83510,MP83511,MP83513,MP83514,MP83619,MP83723,

Chemical ID :
M5130,M5218,M5223,M5289,M5295,M5296,M5390,M5393,M5429,M5473,M5476,M5496,M5497,M5498,M5513,M5515
,M5519,M5658,M5697,M5698,M5751,M5768,M5769,M5798,M5799,M5800,M5801,M5802,M5806,M5815,M5816,M581
7,M5818,M5819,M5820,M5875,M5959,M5960,M5962,M5970,M5976,M5978,M5982,M5985,M5990,M5999,M6021,M60
23,M6025,M6028,M6030,M6033,M6111,M6116,M6117,M6121,M6125,M6126,W3112,

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
169	1:1HNO3	MP83122	11/07/2024	12/06/2024	Janvi Patel	None	None	Sarabjit Jaswal 11/07/2024

FROM 1000.00000ml of M6116 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
902	ICP AES CAL BLK (SO/ICB/CCB)	MP83134	10/30/2024	12/06/2024	Kareem Khairalla	None	None	Mohan Bera 11/08/2024

FROM 125.00000ml of M6111 + 2350.00000ml of W3112 + 25.00000ml of M6117 = Final Quantity: 2500.000 ml

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
994	ICPAES ISM01.2 S1 (CONC.)	MP83141	10/30/2024	12/06/2024	Kareem Khairalla	None	None	Mohan Bera 11/08/2024

FROM 0.02000ml of M5815 + 0.03000ml of M5429 + 0.10000ml of M5798 + 0.10000ml of M6028 + 0.14000ml of M5799 + 0.20000ml of M5476 + 0.20000ml of M5515 + 0.20000ml of M5658 + 0.20000ml of M5801 + 0.20000ml of M5817 + 0.20000ml of M5976 + 0.20000ml of M6025 + 0.20000ml of M6030 + 0.30000ml of M5698 + 0.40000ml of M6033 + 0.50000ml of M5751 + 0.50000ml of M6023 + 0.70000ml of M5962 + 0.80000ml of M5960 + 1.00000ml of M5800 + 1.00000ml of M6021 + 1.20000ml of M5802 + 1.20000ml of M5819 + 10.00000ml of M5498 + 10.00000ml of M5519 + 10.00000ml of M5768 + 10.00000ml of M5806 + 10.00000ml of M5818 + 2.00000ml of M5978 + 4.00000ml of M5390 + 34.24000ml of MP83134 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
921	ICPAES SPIKE SOL#6	MP83147	10/30/2024	12/06/2024	Kareem Khairalla	None	None	Mohan Bera 11/08/2024

FROM 2.50000ml of M5962 + 50.00000ml of M5990 + 50.00000ml of M5999 + 147.50000ml of MP83134 = Final Quantity: 250.000 ml

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
169	1:1HNO3	MP83498	12/09/2024	12/28/2024	Janvi Patel	None	None	Sarabjit Jaswal 12/09/2024

FROM 1250.00000ml of M6126 + 1250.00000ml of W3112 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
170	1:1HCL	MP83499	12/09/2024	12/28/2024	Eman Mughal	None	None	Sarabjit Jaswal 12/09/2024

FROM 1250.00000ml of M6121 + 1250.00000ml of W3112 = Final Quantity: 2500.000 ml

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
902	ICP AES CAL BLK (SO/ICB/CCB)	MP83500	12/06/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 125.00000ml of M6121 + 2350.00000ml of W3112 + 25.00000ml of M6126 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2480	ICP AES STD 6 ISM01.3	MP83501	12/06/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 4.00000ml of M5289 + 4.00000ml of M5498 + 4.00000ml of M5515 + 4.00000ml of M5768 + 4.00000ml of M5806 + 30.00000ml of MP83500 = Final Quantity: 50.000 ml

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1004	ICPAES ISM01.2 (S5)	MP83502	12/06/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 0.25000ml of M5798 + 0.50000ml of M5429 + 0.50000ml of M5473 + 0.50000ml of M5815 + 0.50000ml of M5817 + 12.50000ml of M5519 + 12.50000ml of M5698 + 12.50000ml of M5806 + 12.50000ml of M5819 + 13.75000ml of M5697 + 14.50000ml of M5496 + 14.50000ml of M5515 + 14.50000ml of M5658 + 2.00000ml of M5513 + 22.50000ml of M5497 + 22.50000ml of M5768 + 5.00000ml of M5296 + 5.00000ml of M5393 + 5.00000ml of M5802 + 5.00000ml of M5818 + 5.00000ml of M5875 + 303.50000ml of MP83500 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1005	ICPAES ISM01.2(S4)	MP83503	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 250.00000ml of MP83500 + 250.00000ml of MP83502 = Final Quantity: 500.000 ml

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1007	ICPAES ISM01.2(S3)	MP83504	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 25.00000ml of MP83502 + 75.00000ml of MP83500 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1008	ICPAES ISM01.2(S2)	MP83505	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 12.50000ml of MP83502 + 87.50000ml of MP83500 = Final Quantity: 100.000 ml

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
994	ICPAES ISM01.2 S1 (CONC.)	MP83506	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 0.02000ml of M5815 + 0.03000ml of M5429 + 0.10000ml of M5798 + 0.10000ml of M6028 + 0.14000ml of M5799 + 0.20000ml of M5473 + 0.20000ml of M5515 + 0.20000ml of M5658 + 0.20000ml of M5801 + 0.20000ml of M5817 + 0.20000ml of M5976 + 0.20000ml of M6025 + 0.20000ml of M6030 + 0.30000ml of M5698 + 0.40000ml of M5496 + 0.50000ml of M5697 + 0.50000ml of M6023 + 0.70000ml of M5962 + 0.80000ml of M5960 + 1.00000ml of M5800 + 1.00000ml of M6021 + 1.20000ml of M5802 + 1.20000ml of M5819 + 10.00000ml of M5498 + 10.00000ml of M5519 + 10.00000ml of M5769 + 10.00000ml of M5806 + 10.00000ml of M5818 + 2.00000ml of M5978 + 4.00000ml of M5390 + 34.24000ml of MP83500 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1003	ICPAES ISM01.2 S1	MP83507	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 0.50000ml of MP83506 + 99.50000ml of MP83500 = Final Quantity: 100.000 ml

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2054	ICV-ICPAES	MP83508	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 0.50000ml of M5218 + 0.50000ml of M5816 + 0.50000ml of M5820 + 0.50000ml of M5970 + 0.50000ml of M5982 + 10.00000ml of M5295 + 87.50000ml of MP83500 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
904	ICP AES ICSA SOLN	MP83509	12/09/2024	01/06/2025	Kareem Khairalla	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 12/09/2024

FROM 10.00000ml of M5130 + 90.00000ml of MP83500 = Final Quantity: 250.000 ml

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
905	ICP AES ICSAB SOLN	MP83510	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 10.00000ml of M5130 + 10.00000ml of M5223 + 80.00000ml of MP83500 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1119	ICPAES ISM01.2(CCV)	MP83511	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 0.75000ml of M5497 + 0.75000ml of M5769 + 1.22500ml of M5496 + 1.25000ml of M5515 + 1.25000ml of M5806 + 19.77500ml of MP83500 + 25.00000ml of MP83502 = Final Quantity: 50.000 ml

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1122	ICPMS CALIB BLANK(S0/ICB/CCB)	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
1883	SE 10PPM	MP83723	12/19/2024	01/07/2025	Sarabjit Jaswal	None	None	Mohan Bera 12/20/2024

FROM 0.10000ml of M5962 + 9.90000ml of MP83619 = Final Quantity: 10.000 ml

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART A / ICSA (ICP) STOCK SOLN	ICSA-1211	12/28/2024	05/20/2024 / jaswal	04/20/2021 / bin	M5130

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CHEM-QC-4 / CHEM-QC-4, Second Source, 1000 ug/ml, B, Mo, Si, Sn, Ti	S2-MEB711674	11/02/2026	07/01/2022 / bin	09/10/2021 / bin	M5218

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART B / ICSAB (ICP) STOCK SOLN	ICSB-0710	12/28/2024	05/20/2024 / jaswal	04/20/2021 / bin	M5223

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Aluminum (Al) 10,000PPM	070622	07/06/2025	09/02/2022 / jaswal	07/12/2022 / jaswal	M5289

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-1 / ICV (ICP/ICPMS) STOCK SOLN	ICV-1014	02/05/2025	08/07/2024 / jaswal	04/20/2021 / bin	M5295

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	Z9651Q / CHEM-CLP-4/.25L	S2-MEB711673	11/02/2026	09/19/2022 / jaswal	08/20/2022 / jaswal	M5296

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	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.	57138 / Sr, 10000 PPM, 125 ml	082922	08/29/2025	07/29/2024 / jaswal	03/16/2023 / jaswal	M5476

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Al, 10000 PPM, 500 ml	011623	01/16/2026	08/15/2023 / jaswal	03/17/2023 / bin	M5496

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Ca, 10000 PPM, 500 ml	031523	03/15/2026	03/18/2023 / bin	03/17/2023 / bin	M5497

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Ca, 10000 PPM, 500 ml	031523	03/15/2026	08/15/2023 / jaswal	03/17/2023 / bin	M5498

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57182 / Pb, 10000 PPM, 125 ml	061522	06/15/2025	03/19/2023 / bin	03/17/2023 / bin	M5513

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58126 / Fe, 10000 PPM, 500 ml	092122	09/21/2025	08/01/2024 / Jaswal	03/17/2023 / bin	M5515

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57119 / Potassium (K) 10,000PPM	120822	12/08/2025	01/08/2024 / bin	03/17/2023 / bin	M5519

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

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	102523	10/25/2026	04/03/2024 / jaswal	10/27/2023 / jaswal	M5697

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58025 / Mn, 1000 PPM, 500 ml	102623	10/26/2026	04/18/2024 / jaswal	10/27/2023 / jaswal	M5698

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	071723	07/17/2026	10/01/2024 / Jaswal	08/25/2023 / jaswal	M5751

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	091823	09/18/2026	01/08/2024 / bin	01/03/2024 / bin	M5768

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

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57050 / Sn, 1000 PPM, 125 ml	071123	07/11/2026	02/09/2024 / bin	02/09/2024 / bin	M5799

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57027 / CO, 1000 PPM, 125 ml	091923	09/19/2026	05/31/2024 / bin	02/09/2024 / bin	M5800

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57033 / As, 1000 PPM, 125 ml	111323	11/13/2026	02/09/2024 / bin	02/09/2024 / bin	M5801

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57051 / Sb, 1000 PPM, 125 ml	120523	12/05/2026	08/07/2024 / jaswal	01/03/2024 / jaswal	M5802

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

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57016 / S, 1000 PPM, 125 ml	122923	12/29/2026	05/20/2024 / Jaswal	02/09/2024 / jaswal	M5816

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57116 / S, 10000 PPM, 125 ml	071123	07/11/2026	03/01/2024 / jaswal	02/09/2024 / jaswal	M5817

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57014 / Si, 1000 PPM, 125 ml	122023	12/20/2026	03/06/2024 / jaswal	02/09/2024 / jaswal	M5818

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58030 / Zinc, Zn, 500 ml, 1000 PPM	111623	11/16/2026	03/20/2024 / jaswal	02/09/2024 / jaswal	M5819

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

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGY10-1 / YTTRIUM 125mL 10,000ug/mL	V2-Y740548	02/20/2029	07/01/2024 / Jaswal	06/14/2024 / Jaswal	M5959

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57028 / Ni, 1000 PPM, 125 ml	041124	04/11/2027	07/03/2024 / kareem	06/11/2024 / kareem	M5960

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57034 / Se, 1000 PPM, 125 ml	060624	06/06/2027	07/02/2024 / Jaswal	06/14/2024 / Jaswal	M5962

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57003 / Li, 1000 PPM, 125 ml	061224	06/21/2027	07/01/2024 / Jaswal	07/01/2024 / Jaswal	M5970

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

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	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

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

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57082 / Pb, 1000 PPM, 125 ml	061224	11/09/2026	08/05/2024 / Jaswal	08/05/2024 / Jaswal	M6025

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57048 / Cd, 1000 PPM, 125 ml	070124	07/01/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6028

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57047 / Ag, 1000 PPM, 125 ml	122823	12/28/2026	08/05/2024 / kareem	08/05/2024 / Jaswal	M6030

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Al, 10000 PPM, 500 ml	011623	01/16/2026	08/07/2024 / Jaswal	01/03/2024 / Jaswal	M6033

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22F0762009	05/09/2027	11/04/2024 / Eman	09/29/2024 / Janvi	M6111

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24B1362001	05/03/2025	11/04/2024 / Janvi	09/29/2024 / Eman	M6116

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24B1362001	05/06/2025	11/06/2024 / Janvi	09/29/2024 / Eman	M6117

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	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

INORGANIC VENTURES™

Refine your results. Redefine your industry.

Certificate of Analysis

R: 02/22/24 M5986 M5987, M5988, M5989-M5990

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-SPK-5
Lot Number:	V2-MEB742037
Matrix:	5% (v/v) HNO_3
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:

948

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Cd	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 12, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- March 12, 2029

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Joseph Burns
Custom VS Manager



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R 8/15/24

M6028

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

952

CERTIFIED WEIGHT REPORT:

Part Number:	**57048**		**Lot #**		
Lot Number:	**070124**	**Solvent:**	24002546	Nitric Acid	
Description:	**Cadmium (Cd)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	070127				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty		

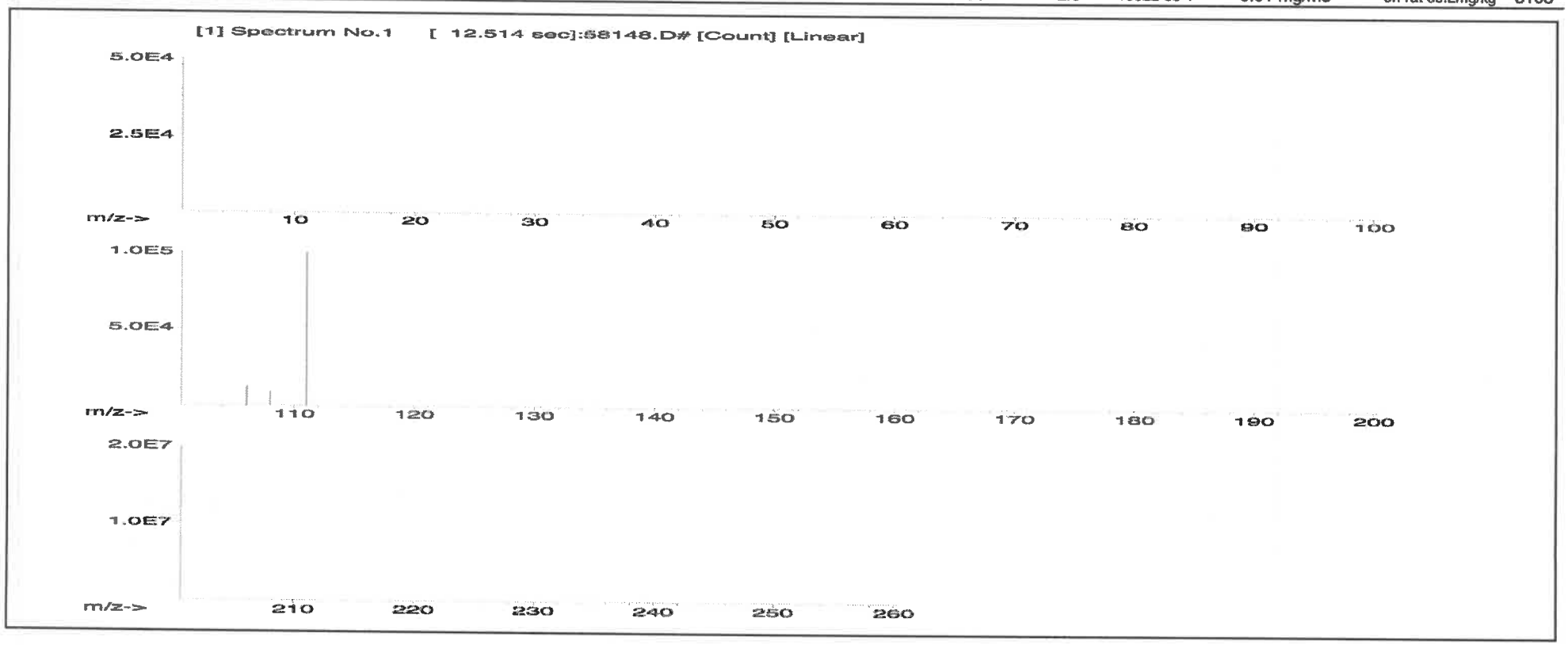
Aleah O'Brady

Formulated By:	Aleah O'Brady	070124

Pedro Rentas

Reviewed By:	Pedro L. Rentas	070124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cadmium nitrate tetrahydrate (Cd)	IN024	CDM092021A1	1000	99.999	0.10	36.5	5.4797	5.4804	**1000.1**	**2.0**	10022-68-1	0.01 mg/m3	orl-rat 60.2mg/kg	3108



953

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	T	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

M5296 OP: 09/19/2022 BH

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-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.

954

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



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

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 27, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 27, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

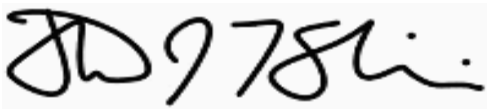
- Sealed TCT Bag Open Date: _____

- 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



960

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-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.

961

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

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 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

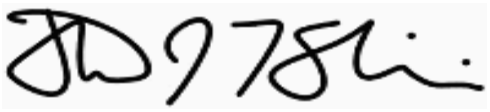
- Sealed TCT Bag Open Date: _____

- 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

964

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

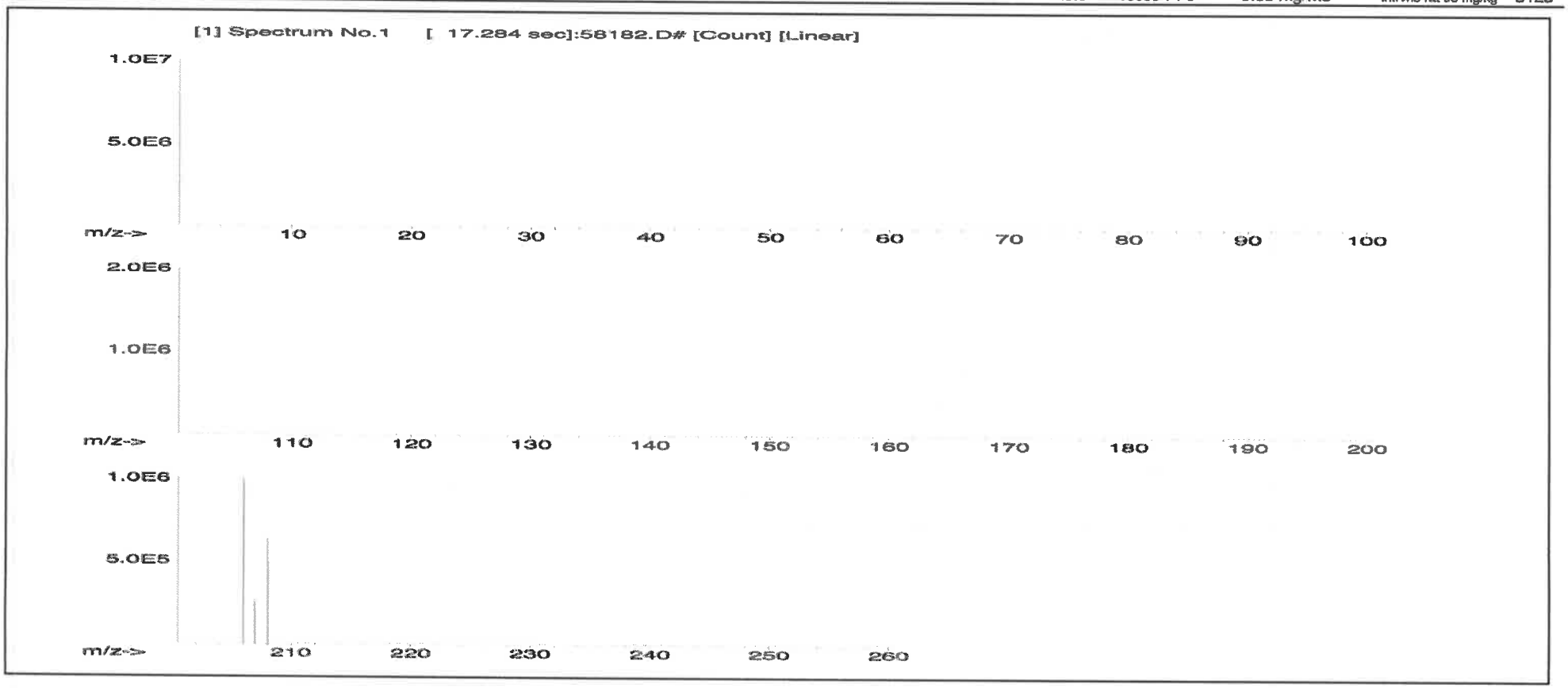
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

		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



965

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 (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 02, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 02, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix. **For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be,

Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for ICP-AES Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSA solution by ICP-AES.

ICSB-0710, Analytes, mixed with ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSAB solution by ICP-AES.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-AES ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-AES ICSA-1211, AND ICSA-1211 MIXED WITH ICSB-0710

Element	CRQL	Part A (µg/L)	Low Limit (µg/L)	High Limit (µg/L)	Part A +Part B (µg/L)	Low Limit (µg/L)	High Limit (µg/L)
Al	200	255000	216000	294000	247000	209000	285000
Sb	60	(0.0)	-60.0	60.0	618	525	711
As	10	(0.0)	-10.0	10.0	104	88.4	120
Ba	200	(6.0)	-194	206	(537)	337	737
Be	5.0	(0.0)	-5.0	5.0	495	420	570
Cd	5.0	(1.0)	-4.0	6.0	972	826	1120
Ca	5000	245000	208000	282000	235000	199000	271000
Cr	10	(52.0)	42.0	62.0	542	460	624
Co	50	(0.0)	-50.0	50.0	476	404	548
Cu	25	(2.0)	-23.0	27.0	511	434	588
Fe	100	101000	85600	116500	99300	84400	114500
Pb	10	(0.0)	-10.0	10.0	(49.0)	39.0	59.0
Mg	5000	255000	216000	294000	248000	210000	286000
Mn	15	(7.0)	-8.0	22.0	507	430	584
Ni	40	(2.0)	-38.0	42.0	954	810	1100
Se	35	(0.0)	-35.0	35.0	(46.0)	11.0	81.0
Ag	10	(0.0)	-10.0	10.0	201	170	232
Tl	25	(0.0)	-25.0	25.0	(108)	83.0	133
V	50	(0.0)	-50.0	50.0	491	417	565
Zn	60	(0.0)	-60.0	60.0	952	809	1095

ICSA M5126 M5127 M5128 M5129 M5130

ICSB M5219 M5220 M5221 M5222 M5223

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 1 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

M5289 R: 07/12/22 (BH)

Certified Reference Material CRM

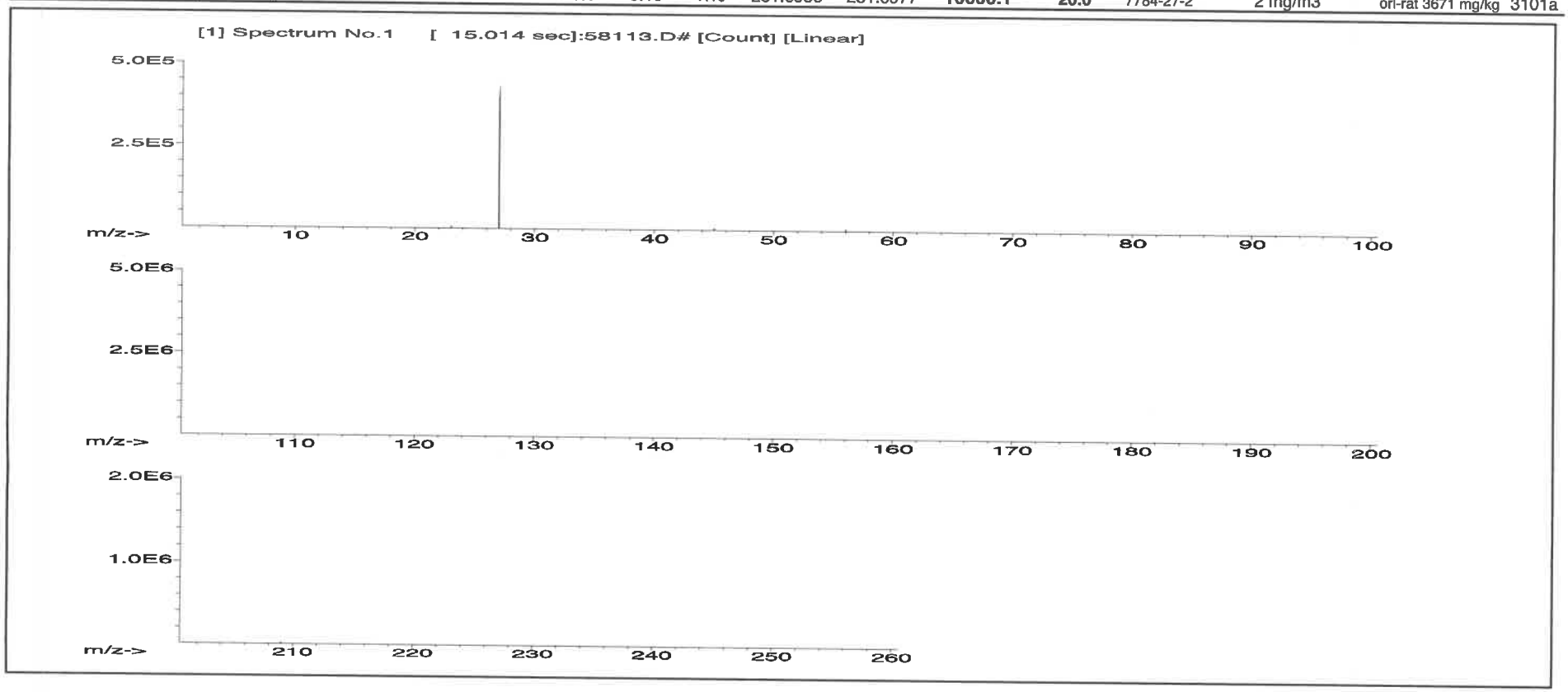
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number:	**58113**			**Lot #**	
Lot Number:	**070622**		**Solvent:**	20370011	Nitric Acid
Description:	**Aluminum (Al)**				
			2%	40.0 (mL)	Nitric Acid
Expiration Date:	070625				
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	070622
Reviewed By:	Pedro L. Rentas	070622

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	**SDS Information** (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Aluminum nitrate nonahydrate (Al)	IN022	ALD012021A1	10000	99.999	0.10	7.10	281.6956	281.6977	**10000.1**	**20.0**	7784-27-2	2 mg/m3	orl-rat 3671 mg/kg	3101a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	T	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Metals in Dilute Acidic or Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets Available Upon Request

M5291
M5292
M5293
M5294
M5295

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

ICV1-1014 For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) *CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS*

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	**CN^-**	99

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

R: 09/08/22 (BH)

Certified Reference Material CRM

M5387 · M5389 · M5390 · M5391 · M5392

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

977

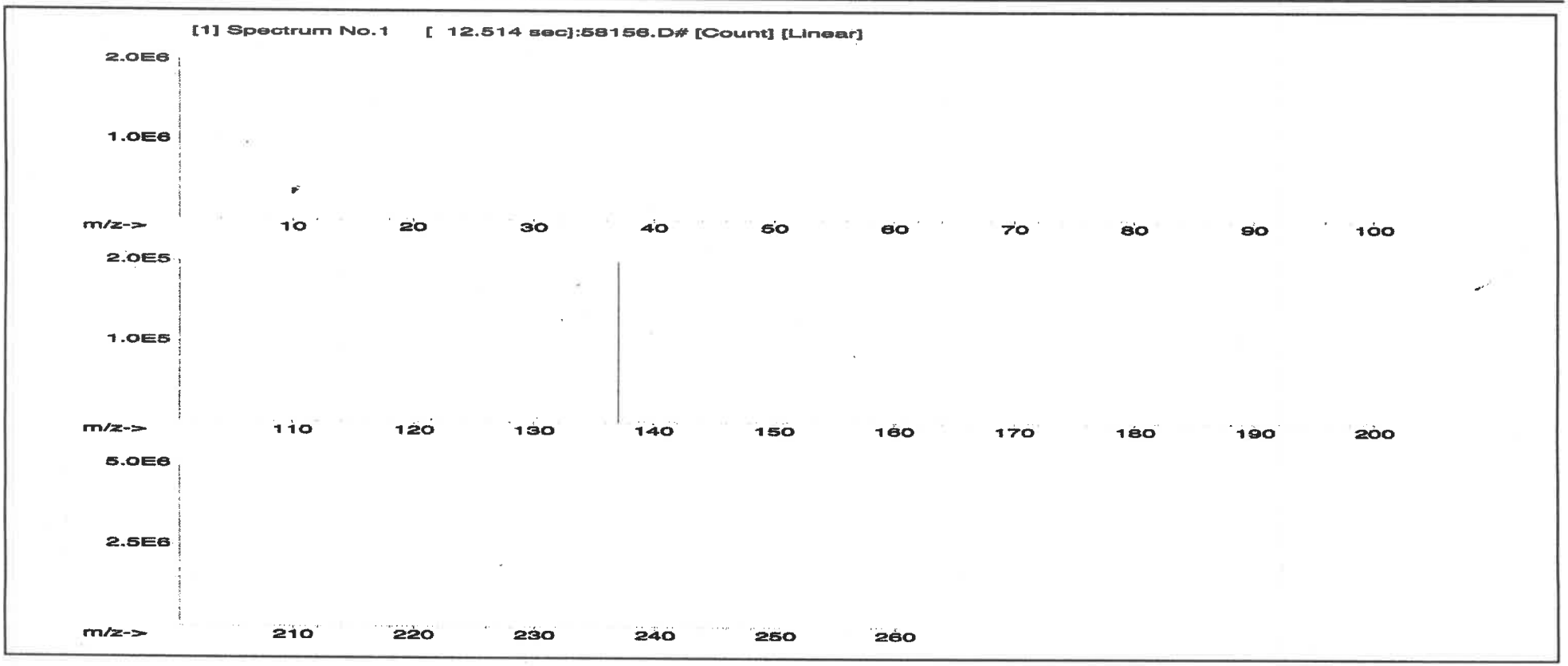
CERTIFIED WEIGHT REPORT:

		Lot #		
Part Number:	57056	**Solvent:**	20510011	Nitric Acid
Lot Number:	072122			
Description:	Barium (Ba)	2%	40.0 (mL)	Nitric Acid
Expiration Date:	072125			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	1000			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	072122
Reviewed By:	Pedro L. Rentas	072122

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Barium nitrate (Ba)	IN023	BAD022019A1	1000	99.999	0.10	52.3	3.82417	3.82426	**1000.0**	2.0	10022-31-8	0.5 mg/m3	orl-rat 355 mg/kg	3104a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	T	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

8469

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5429 R1 01/26/23 BH

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

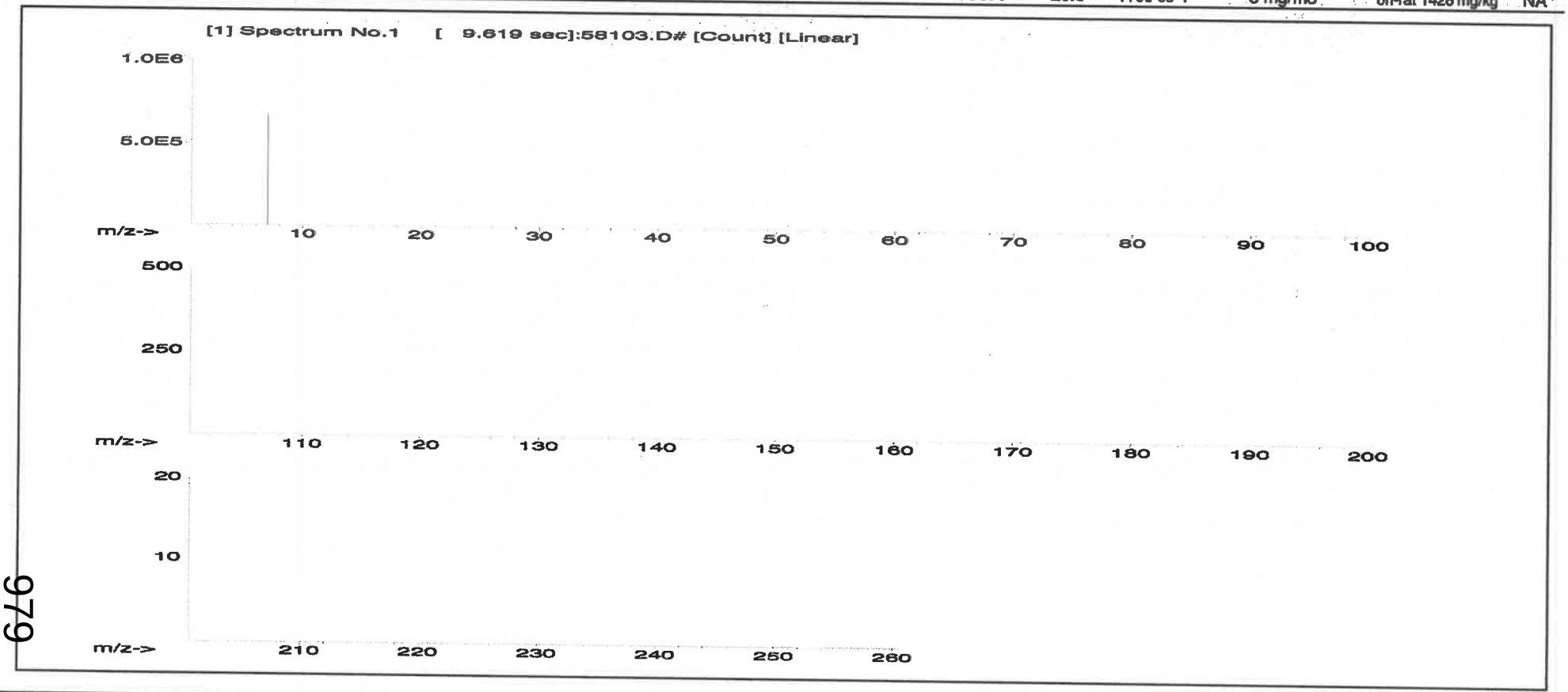
Part Number: 57103
Lot Number: 070622
Description: Lithium (Li)

Expiration Date: 070625
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1000.12 | 0.058 Flask Uncertainty | 5E-05 Balance Uncertainty

		Lot #	
Solvent:	20510011	Nitric Acid	
2%	20.0 (mL)	Nitric Acid	

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



979

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.
* 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).

080

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5497 - M5498 R: 03/17/23 BH

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 031523
Description: Calcium (Ca)

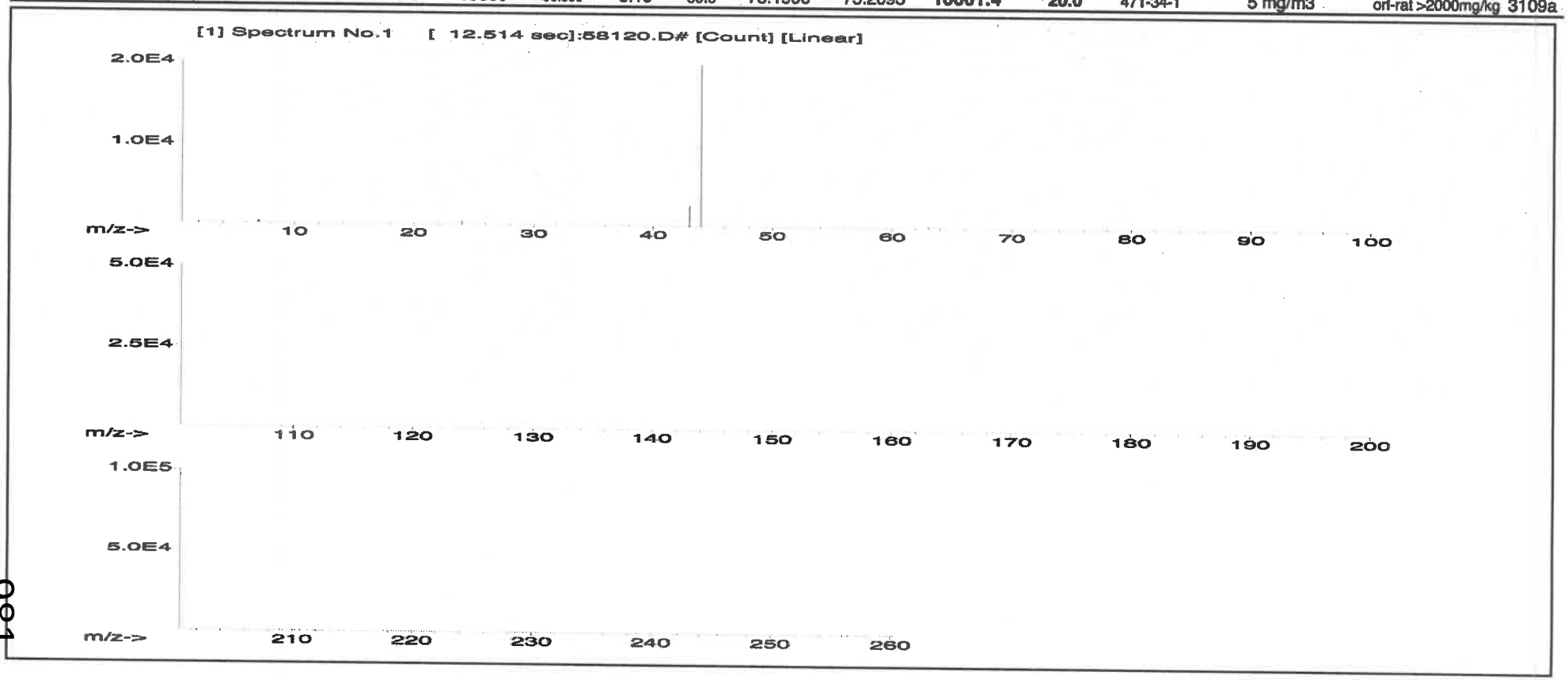
Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

	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



981

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	T	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

2869

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

IN5497 - IN5498 R: 03/17/23 BH

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 031523
Description: Calcium (Ca)

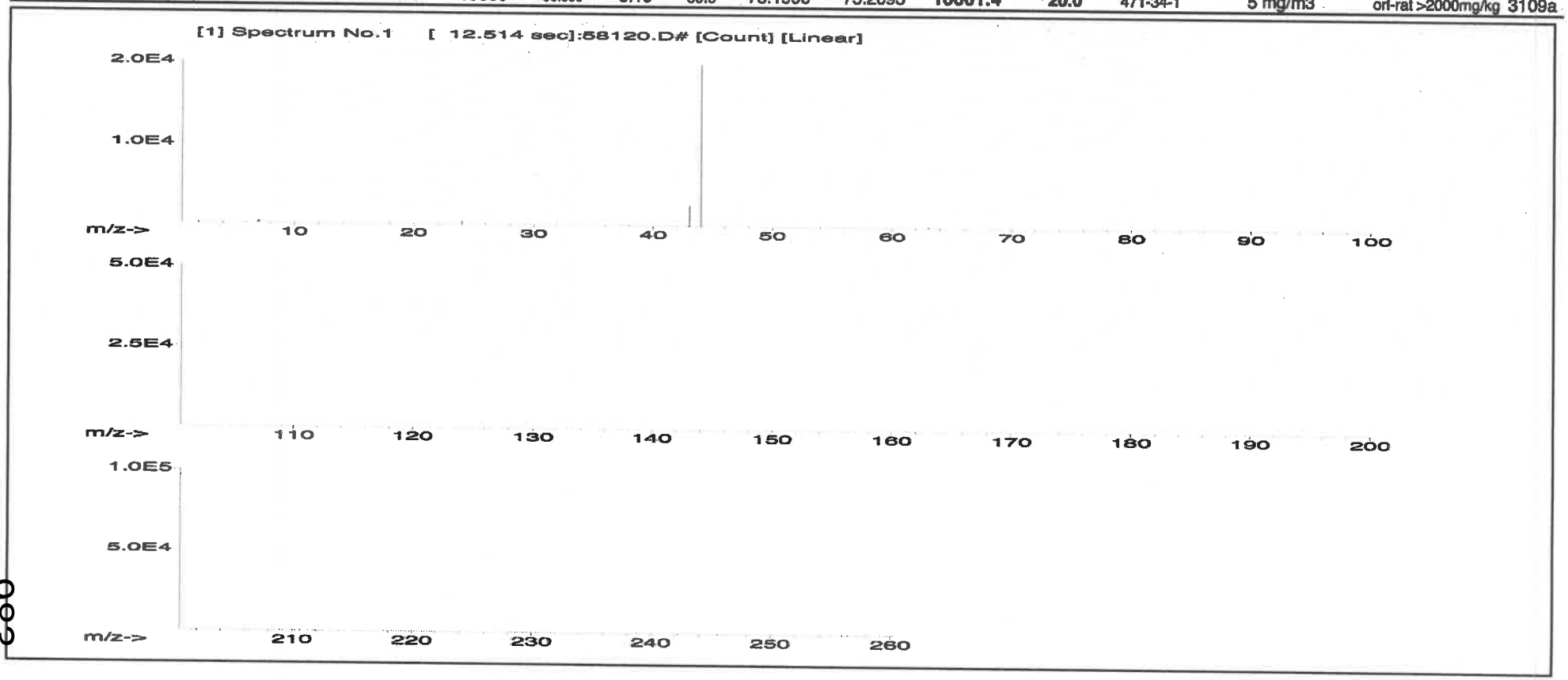
Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

	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



983

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	T	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

6984

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

MS513 R:03/17/23

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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

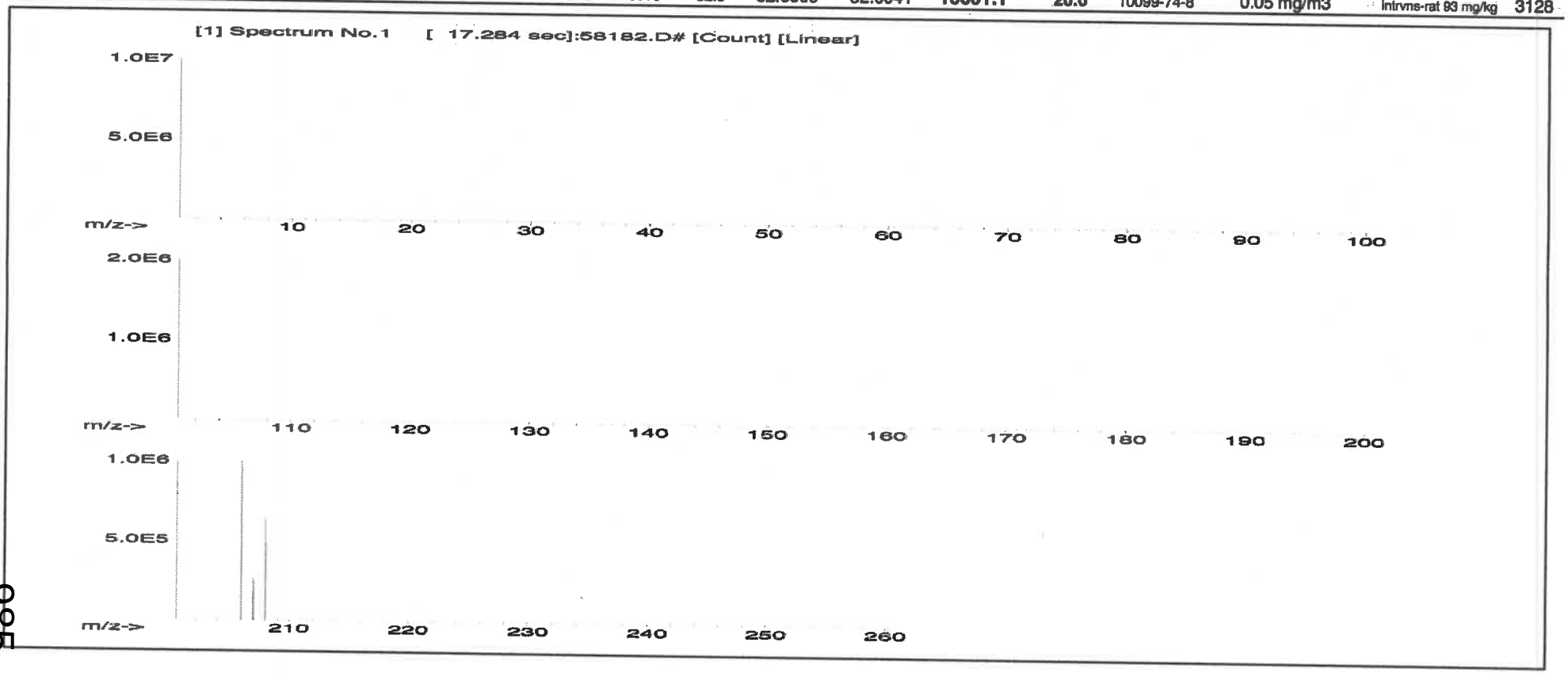
	Lot #		
Solvent:	20510011	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

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



985

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5514 , M5515 R: 03/17/23

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

9887

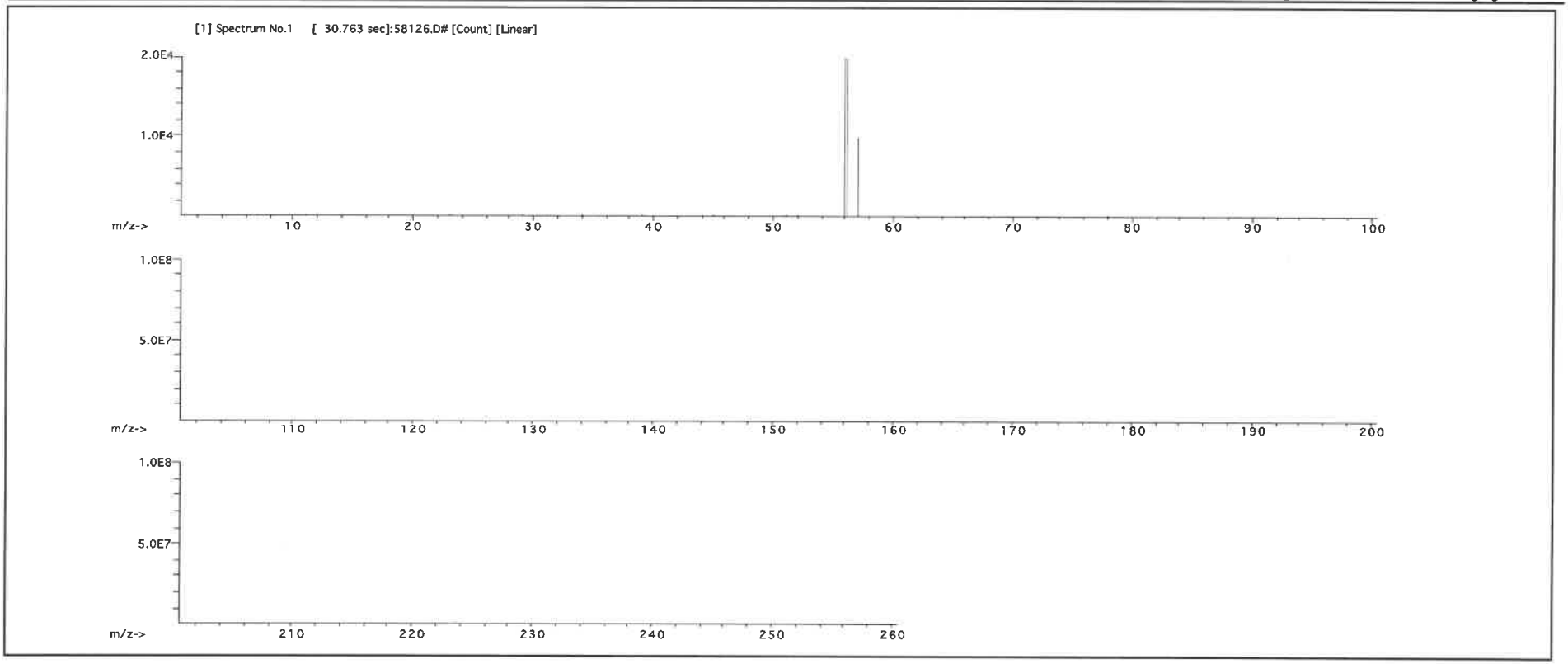
CERTIFIED WEIGHT REPORT:

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:

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).

9886

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5519. M5520 (BH) R:03/17/23

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

686

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

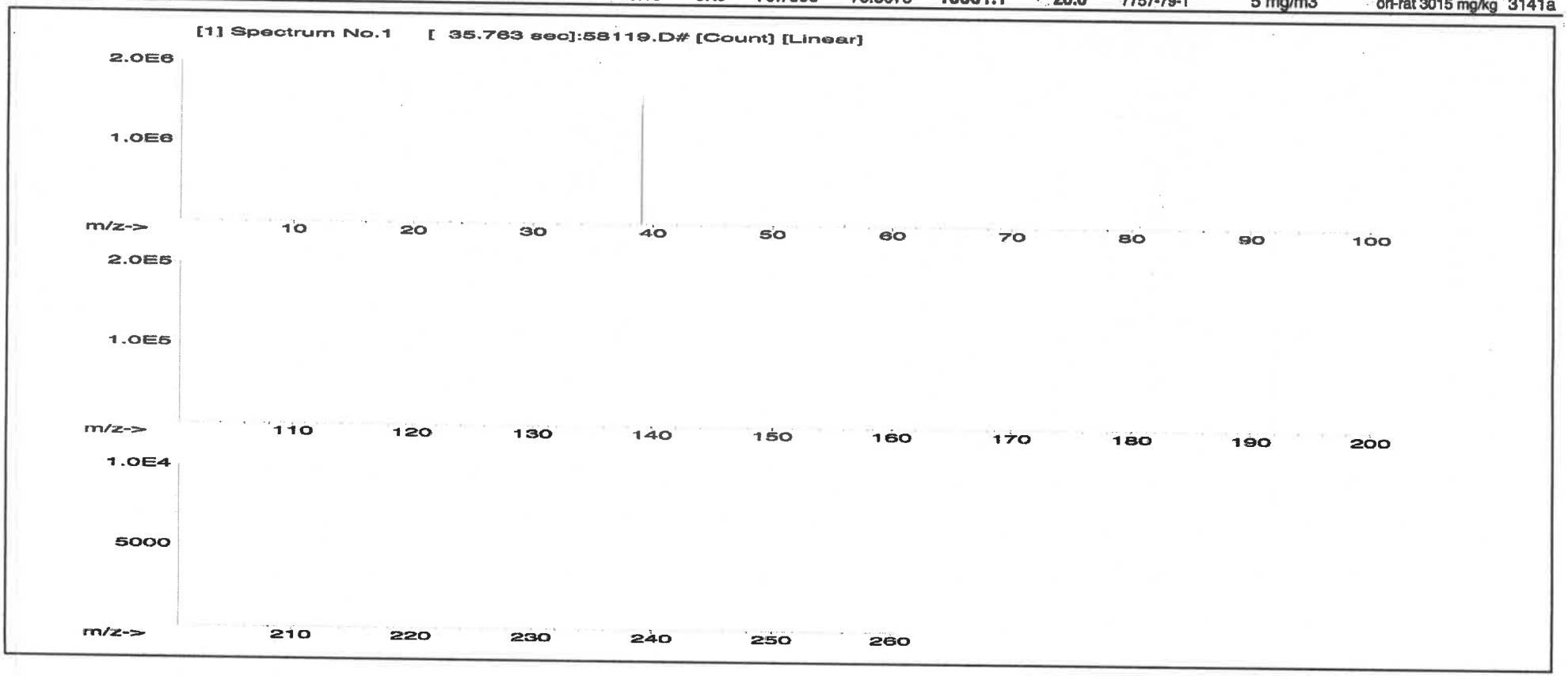
	Lot #		
Solvent:	20510011	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

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



990

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).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5658 R! 8/25/23

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

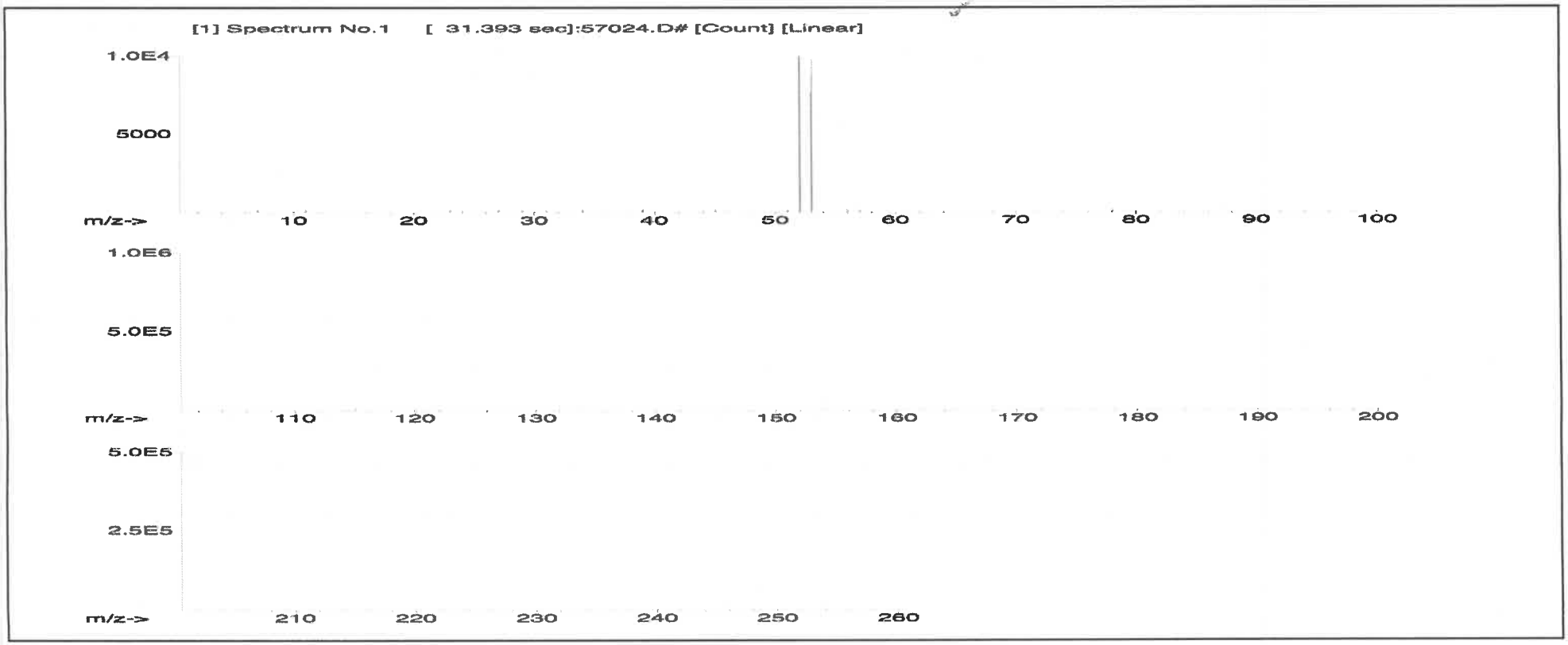
991

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58024**	21110221	Nitric Acid	
Lot Number:	**060523**			
Description:	**Chromium (Cr)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	060526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	060523
Reviewed By:	Pedro L. Rentas	060523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Chromium(III) nitrate nonahydrate (Cr)	58124	071122	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	7789-02-8	0.5 mg(Cr)/m3	orl-rat 3250 mg/kg	3112a



992

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	T	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5697 R: 10/27/23

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

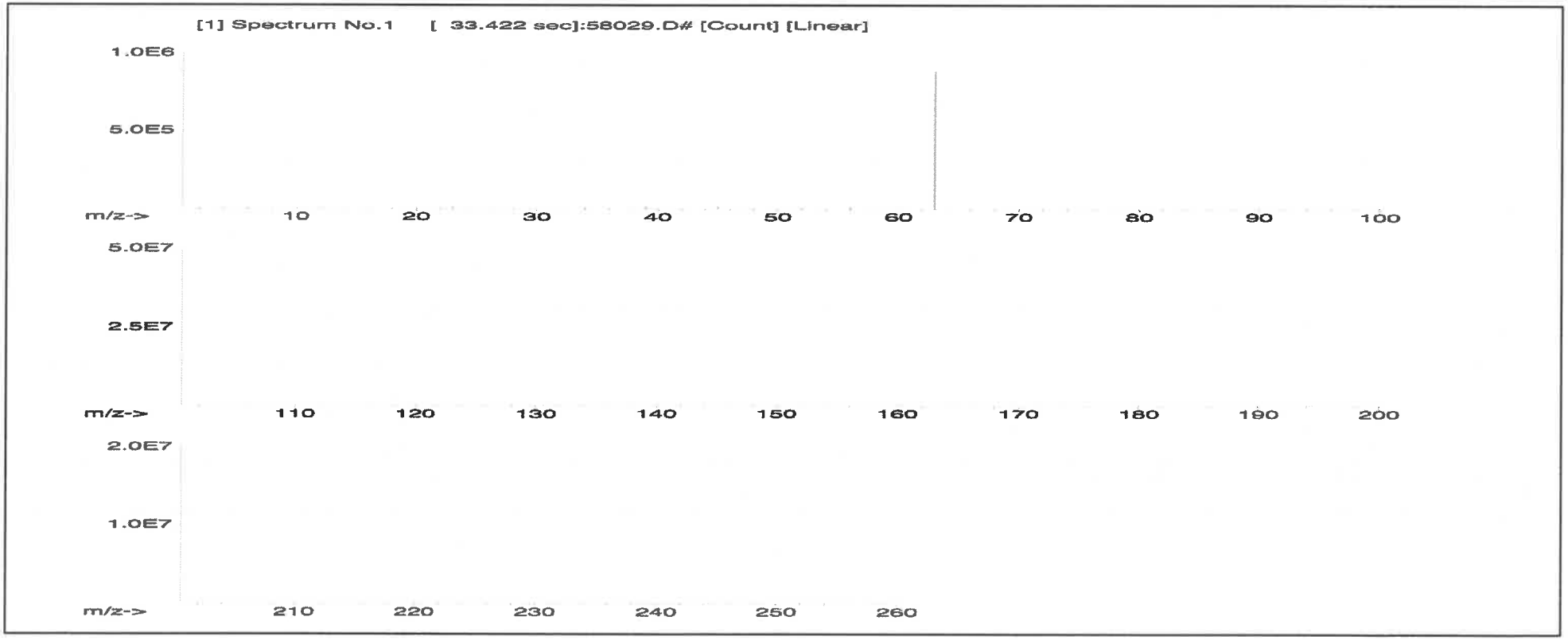
993

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



994

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5648 R: 10/27/23

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

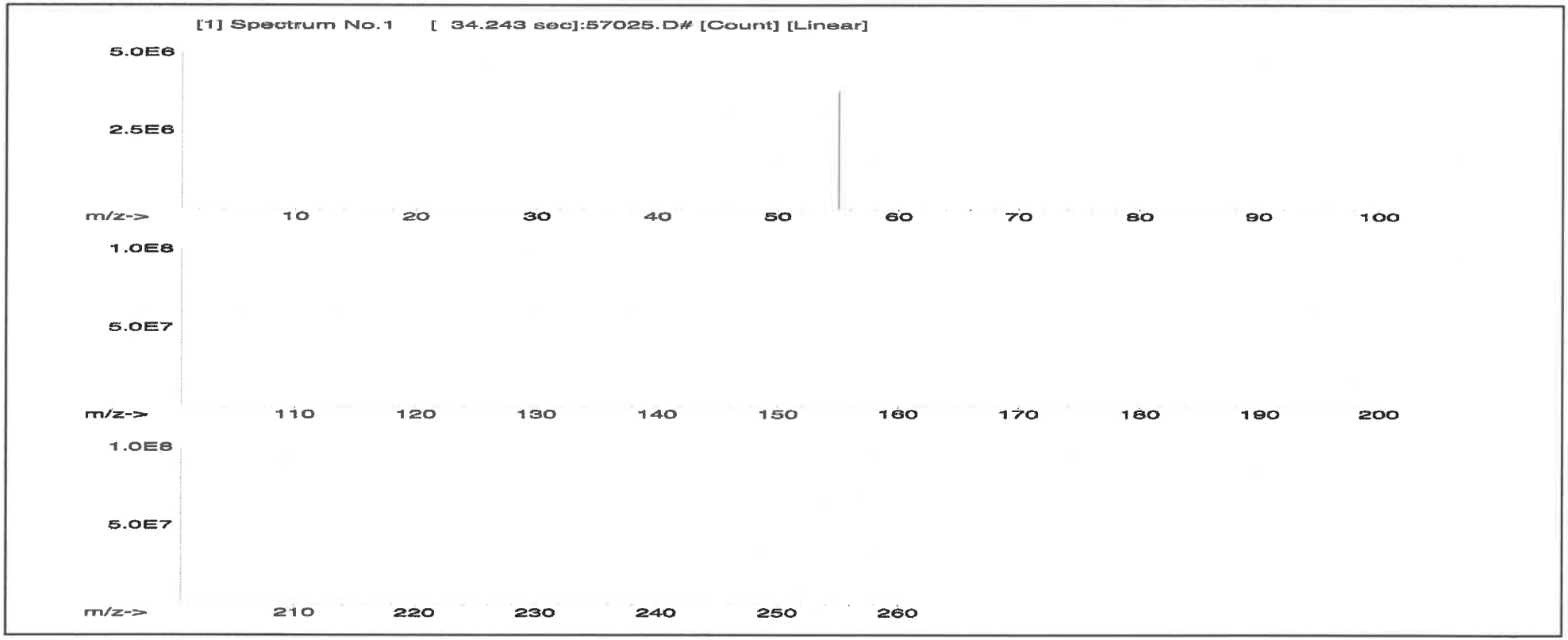
995

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



9966

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	T	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 8/25/23 M5751

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

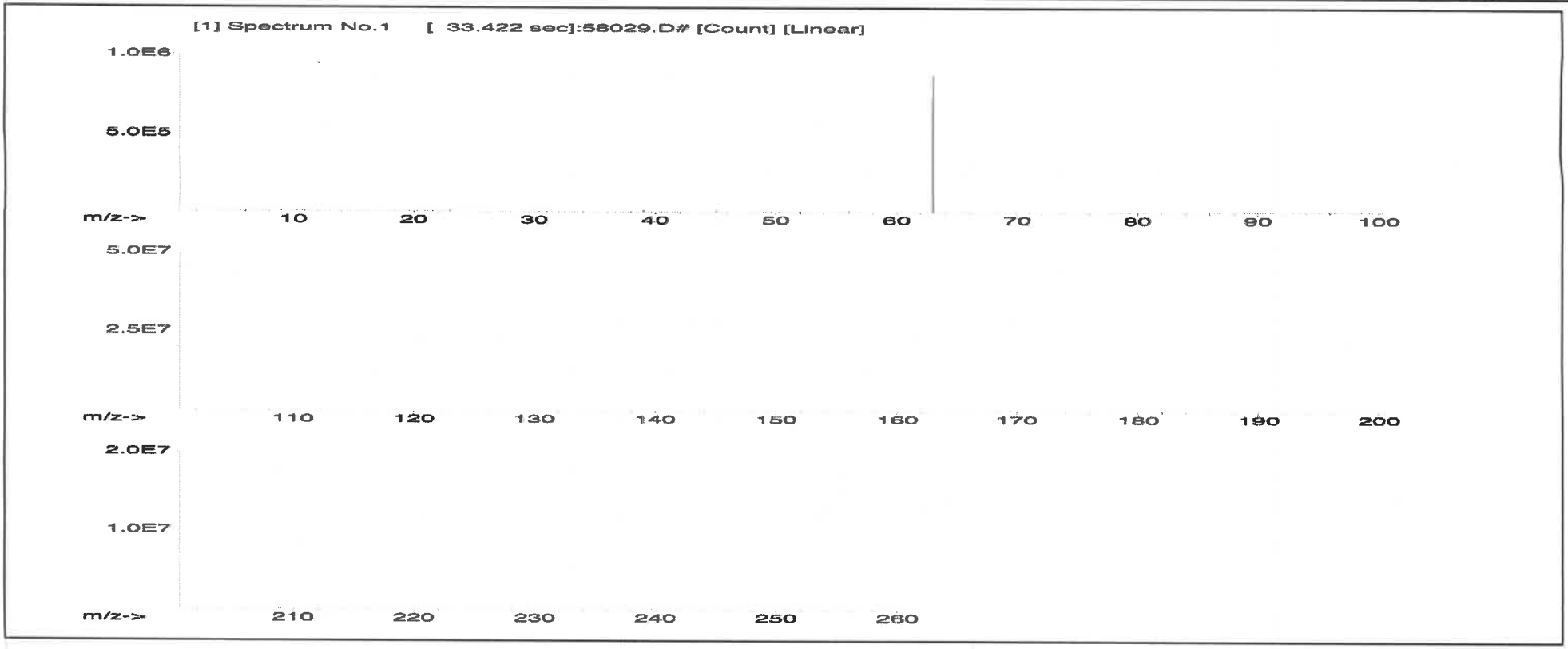
997

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58029**	21110221	Nitric Acid	
Lot Number:	**071723**			
Description:	**Copper (Cu)**	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	071726			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	071723
Reviewed By:	Pedro L. Rentas	071723

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Copper(II) nitrate trihydrate (Cu)	58129	022723	0.1000	200.0	0.084	1000	10000.5	**1000.0**	**2.2**	10031-43-3	1 mg/m3	orl-rat 794 mg/kg	3114



998

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

M5768 M5769 (BP) R:1/3/24

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

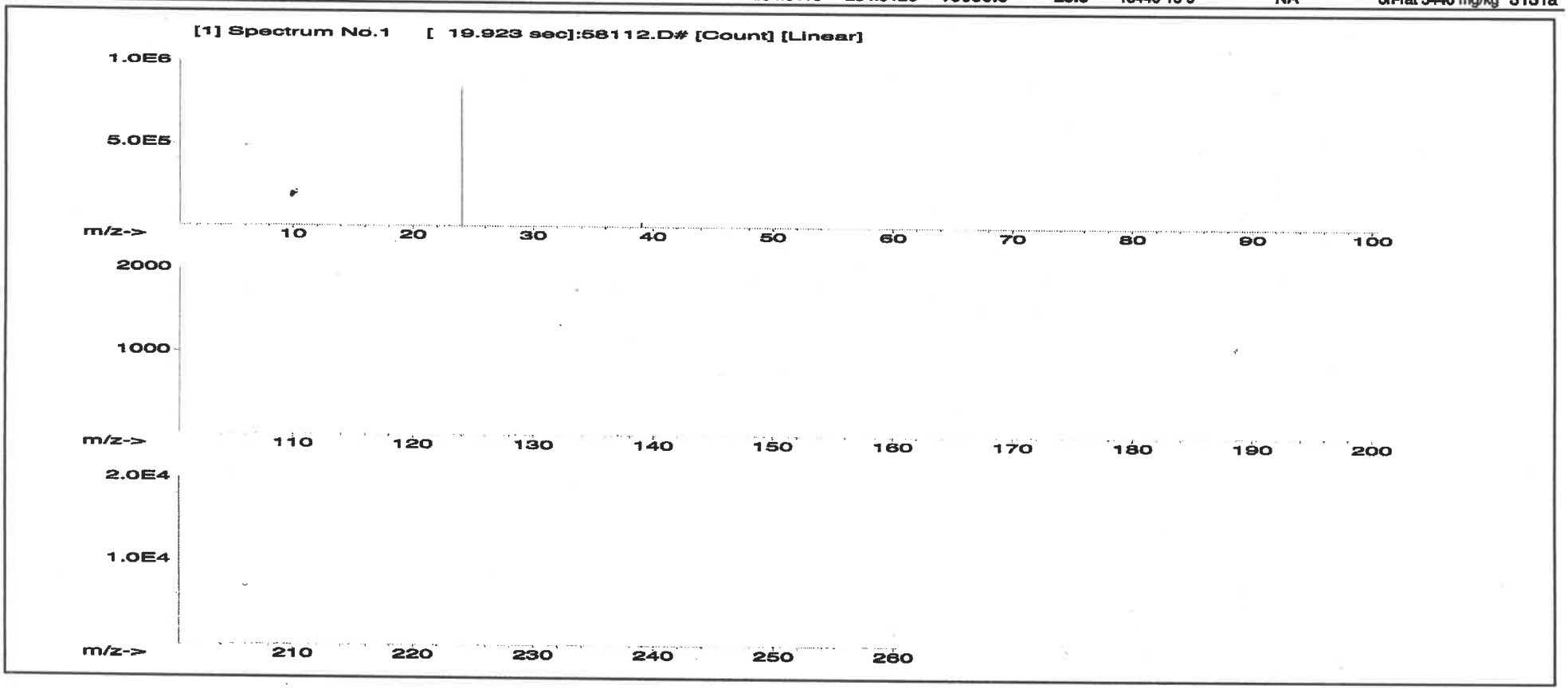
999

CERTIFIED WEIGHT REPORT:

			Lot #		
Part Number:	**58112**	**Solvent:**	24002546	Nitric Acid	
Lot Number:	**091823**				
Description:	**Magnesium (Mg)**		2%	40.0 (mL)	Nitric Acid
Expiration Date:	091826				
Recommended Storage:	Ambient (20 °C)	M5768, M5769 (BP) R: 1/3/24			
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	091823
Reviewed By:	Pedro L. Rentas	091823

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Magnesium nitrate hexahydrate (Mg)	IN030	MGD052023A1	10000	99.999	0.10	8.51	234.9118	234.9126	**10000.0**	**20.0**	13446-18-9	NA	orl-rat 5440 mg/kg	3131a



1000

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:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

M5768 M5769 (BP) R:1/3/24

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

1001

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

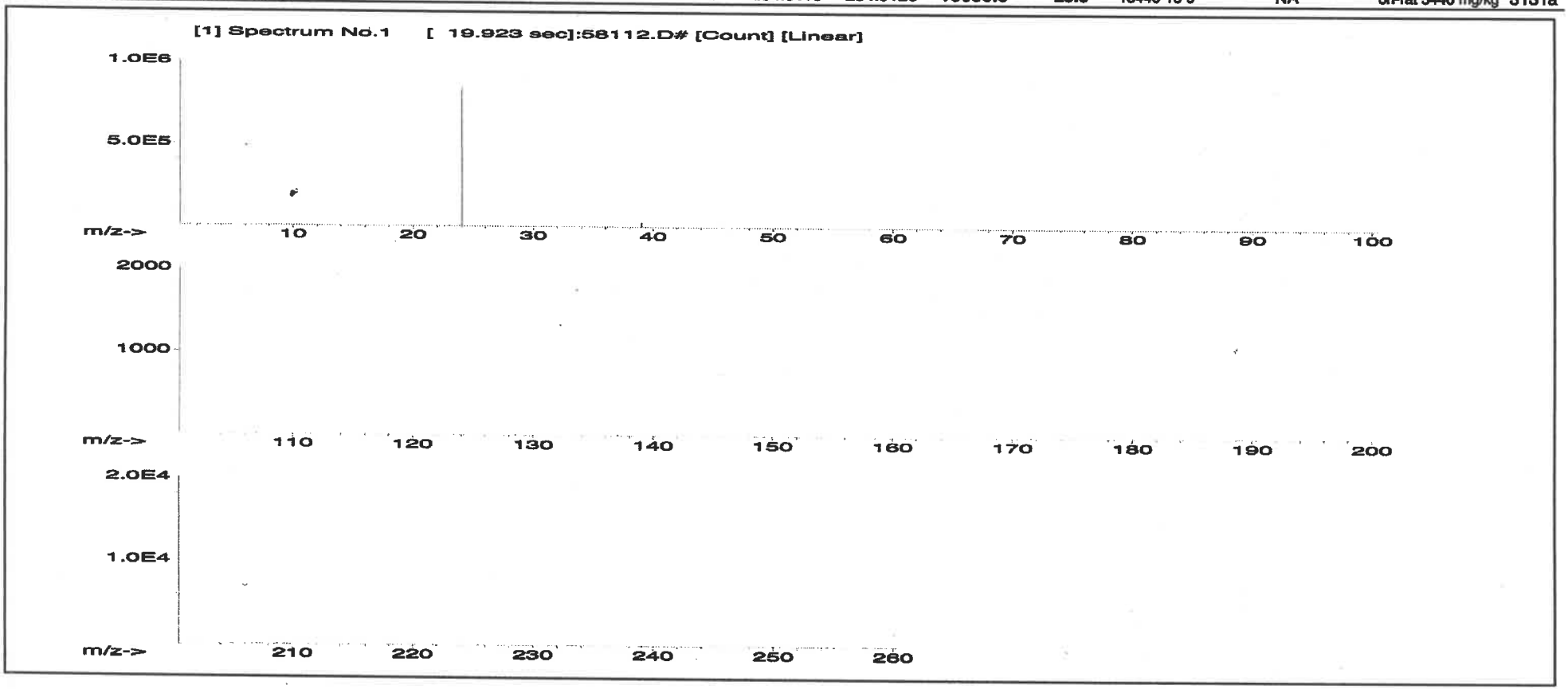
5E-05 Balance Uncertainty

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



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	T	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 02/09/24 M5798

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

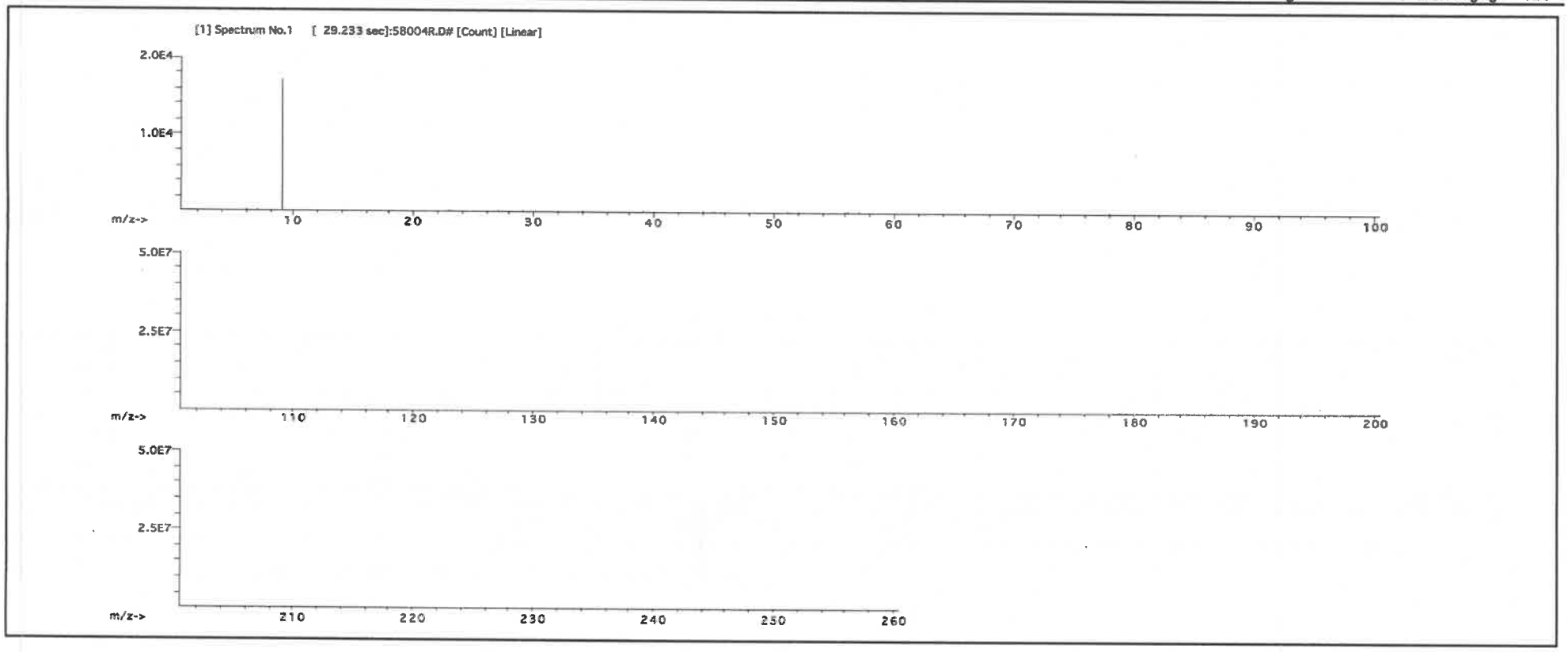
1003

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.

* 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).

1004

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R? 02/09/24 IV15799

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

1005

CERTIFIED WEIGHT REPORT:

Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

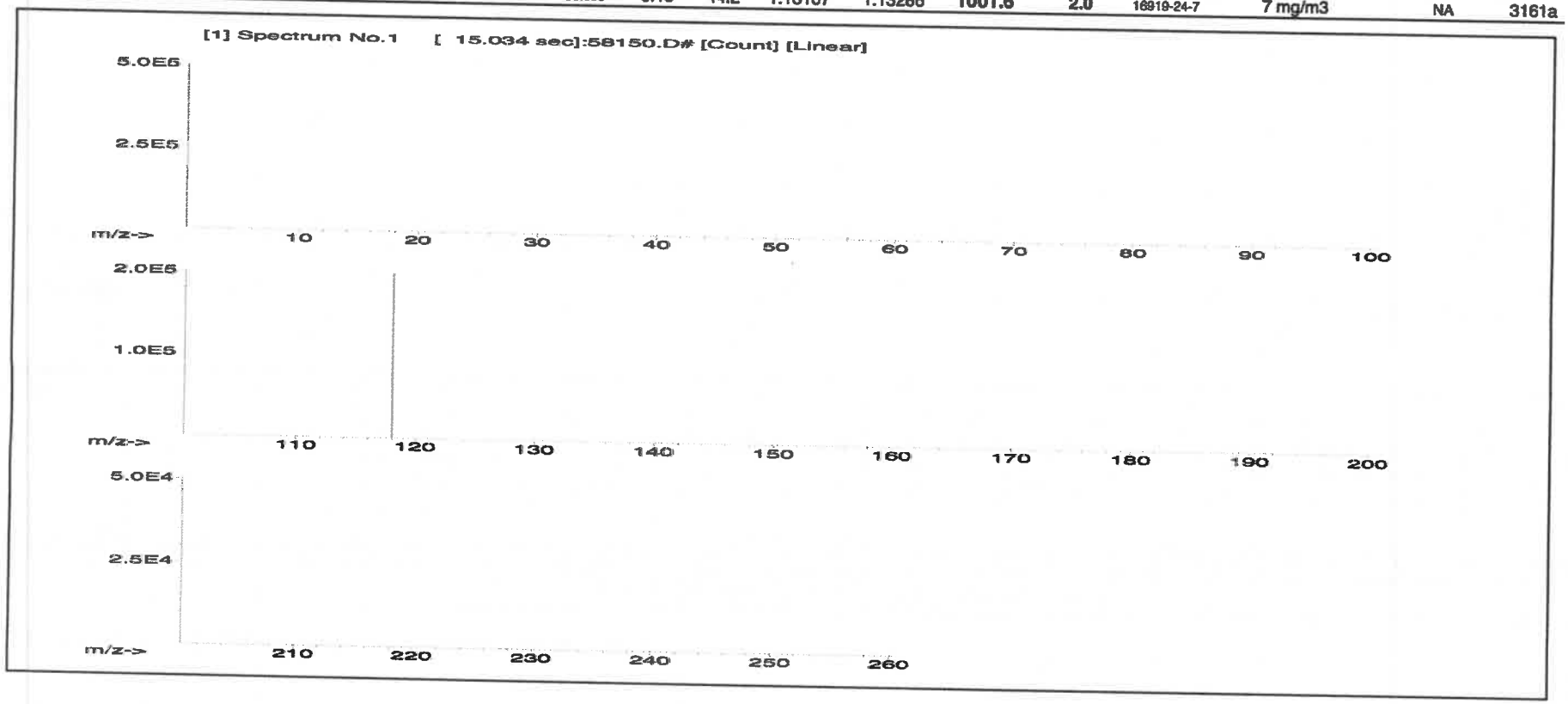
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	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



1006

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<500	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	T	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 02/09/24 IM5800 (BH)

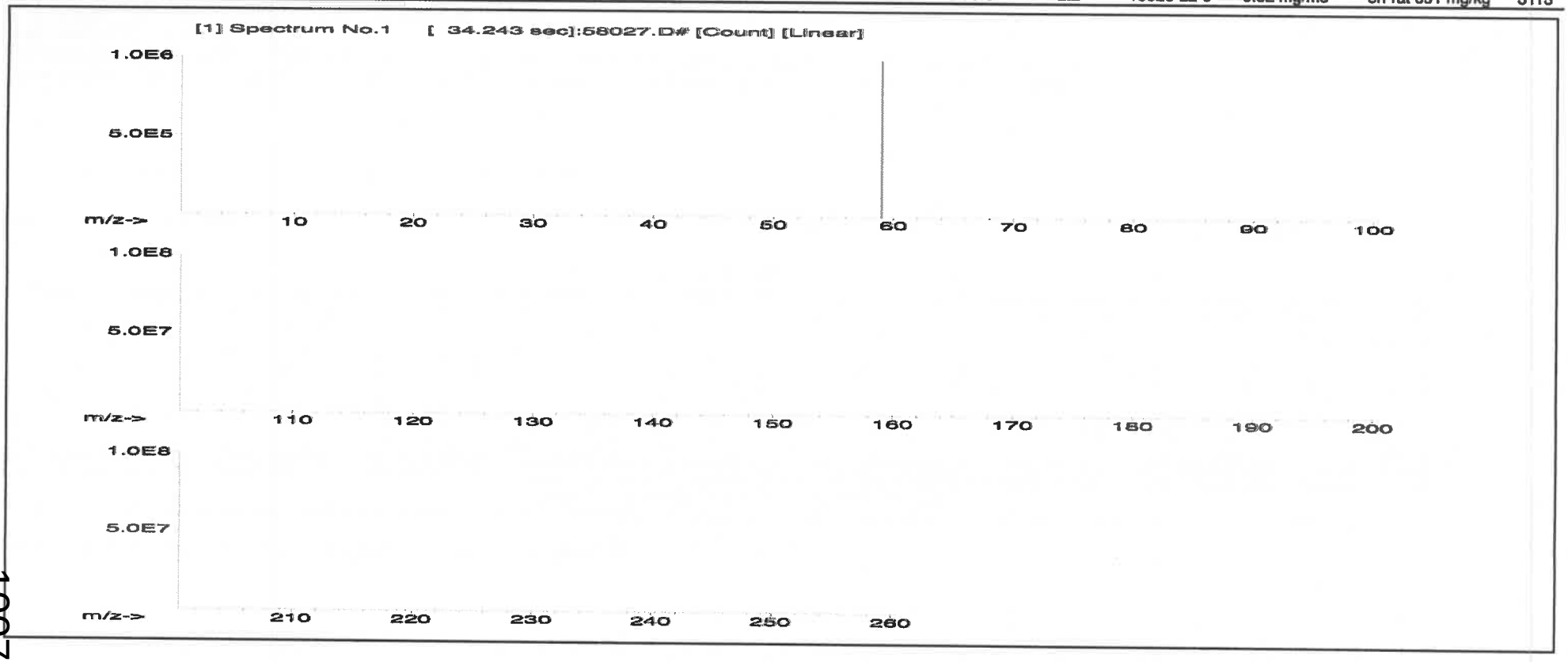
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57027**	24002546	Nitric Acid		
Lot Number:	**091923**				
Description:	**Cobalt (Co)**				
		2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	091926				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

	Formulated By:	Lawrence Barry	091923
	Reviewed By:	Pedro L. Rentas	091923

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cobalt(II) nitrate hexahydrate (Co)	58127	050923	0.1000	200.0	0.084	1000	10000.0	**1000.0**	2.2	10026-22-9	0.02 mg/m3	orl-rat 691 mg/kg	3113



1007

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	T	Gé	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

1008

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 02/09/24 IM5801 BH

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

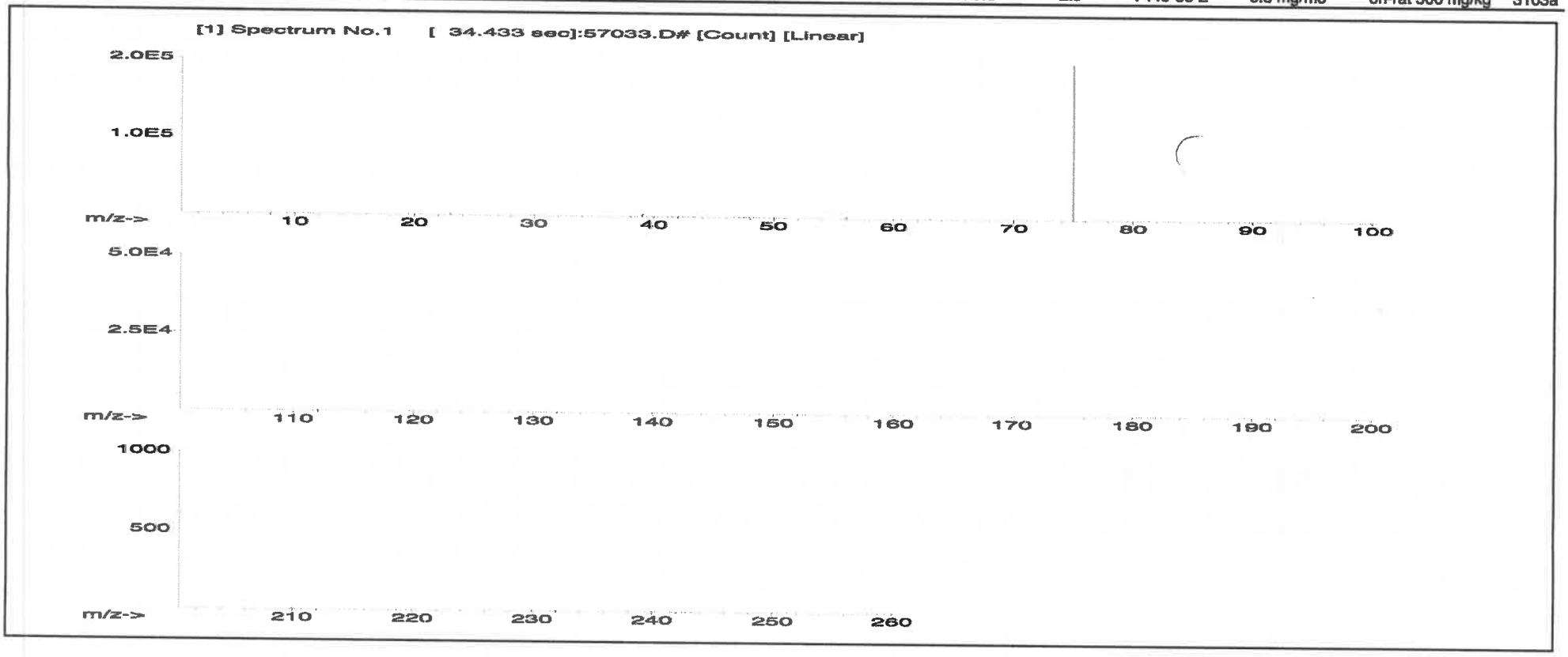
1009

CERTIFIED **WEIGHT** REPORT:

		Lot #	Solvent:		
Part Number:	**57033**	24002546	Nitric Acid		
Lot Number:	**111323**				
Description:	**Arsenic (As)**	2.0%	80.0 (mL)	Nitric Acid	
Expiration Date:	111326				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty		

Formulated By:	Lawrence Barry	111323
Reviewed By:	Pedro L. Rentas	111323

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Arsenic (As)	58133	020522	0.1000	400.0	0.084	1000	10001.0	**1000.0**	**2.0**	7440-38-2	0.5 mg/m3	orl-rat 500 mg/kg	3103a



1010

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	T	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge*	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R1 02/09/24. M58165

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

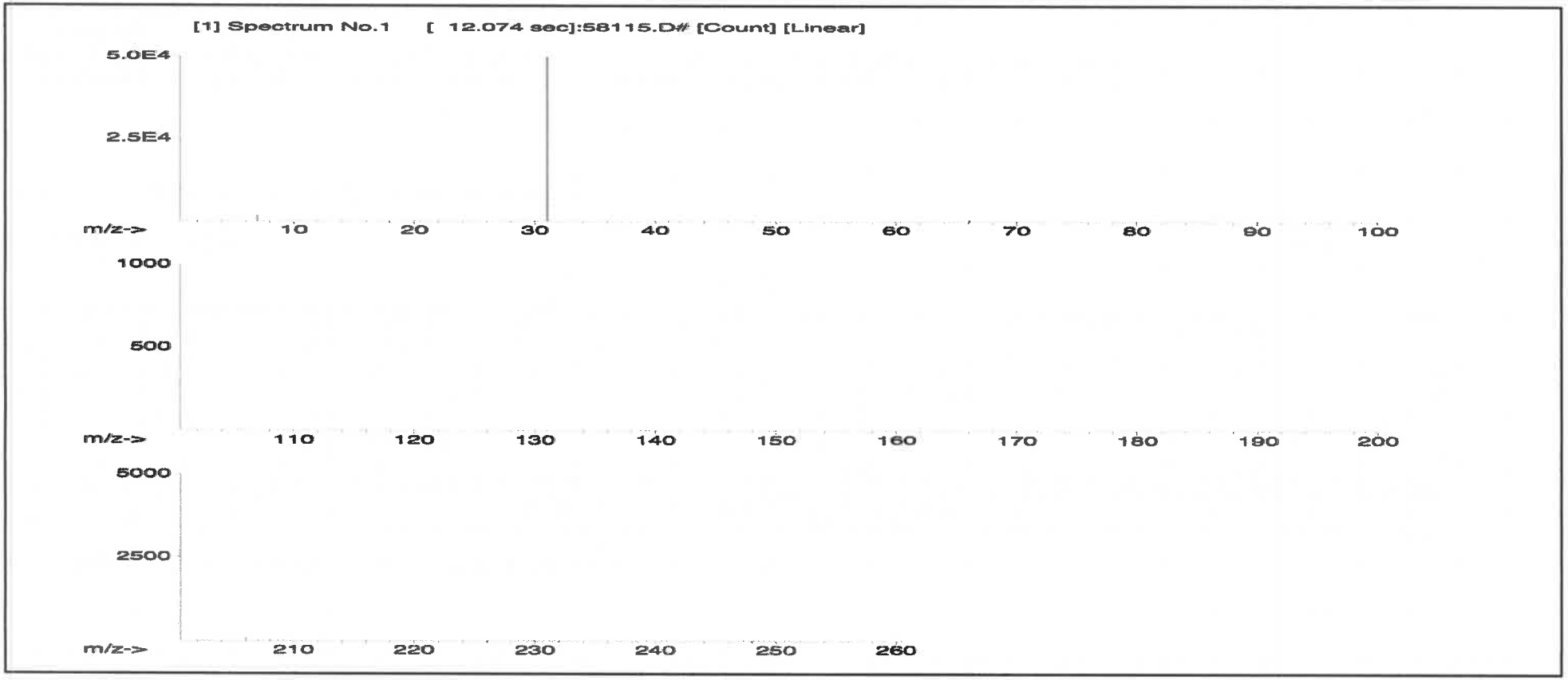
1011

CERTIFIED WEIGHT REPORT:

			Lot #	
Part Number:	**57115**	**Solvent:**	21110221	Nitric Acid
Lot Number:	**041723**			
Description:	**Phosphorous (P)**	2%	40.0 (mL)	Nitric Acid
Expiration Date:	041726			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**10000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	041723
Reviewed By:	Pedro L. Rentas	041723

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV082019A1	10000	99.999	0.10	27.5	72.7287	72.7289	**10000.0**	**20.0**	7722-76-1	5 mg/m3	orl-rat >2000mg/kg	3186



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 02/09/24 M5816

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

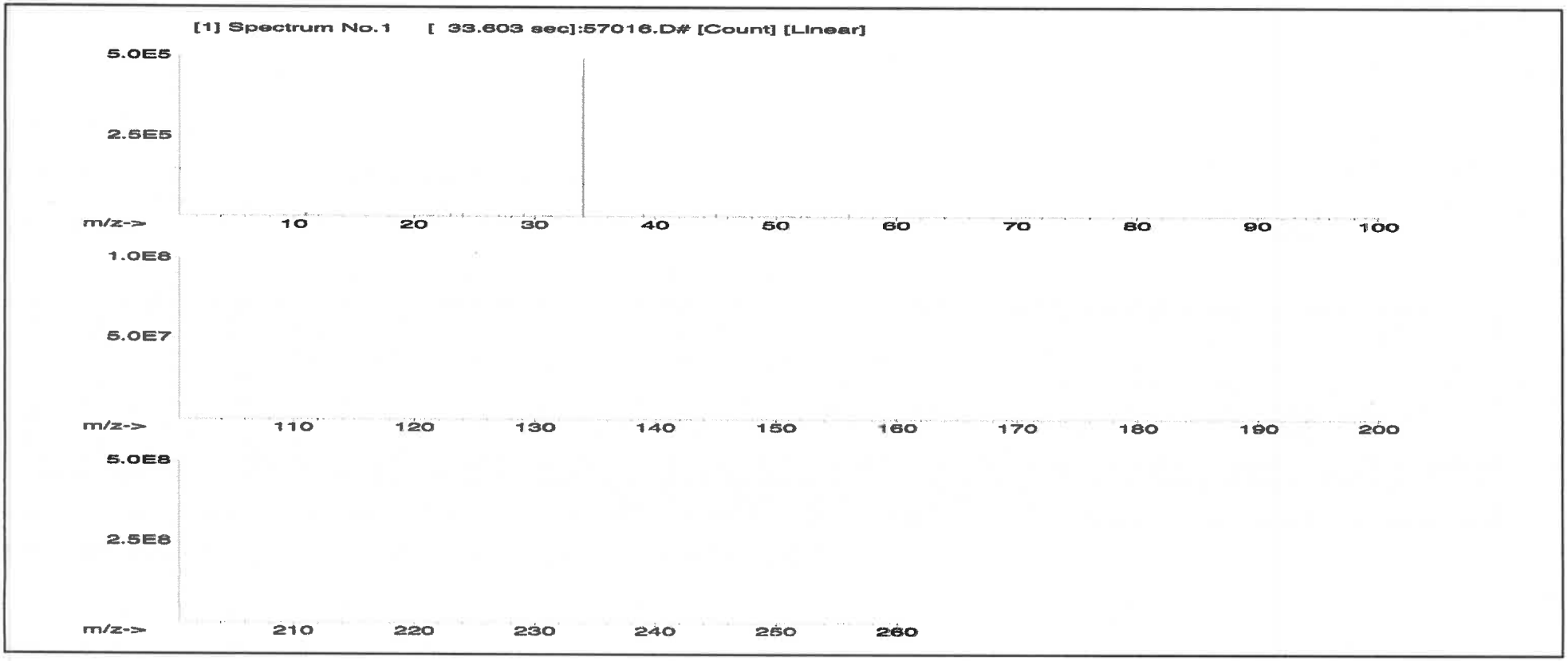
1013

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



1014

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).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 02/09/24 M5817

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

1015

CERTIFIED WEIGHT REPORT:

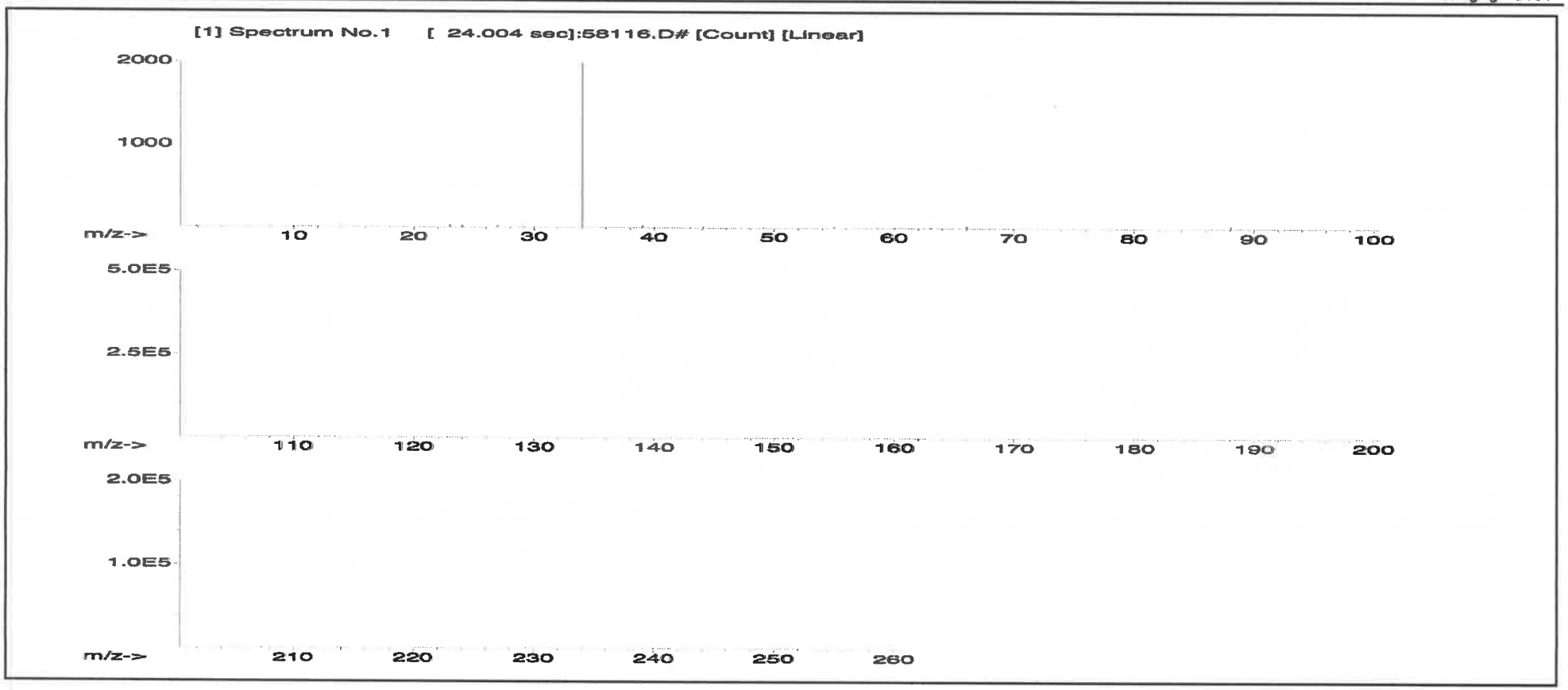
Part Number: 57116
Lot Number: 071123
Description: Sulfur (S)

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



1016

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).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 02/09/24 M.5818

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

1017

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

Lot #

Solvent: 24002546 Nitric Acid

2% 40.0 (mL) Nitric Acid

5E-05 Balance Uncertainty

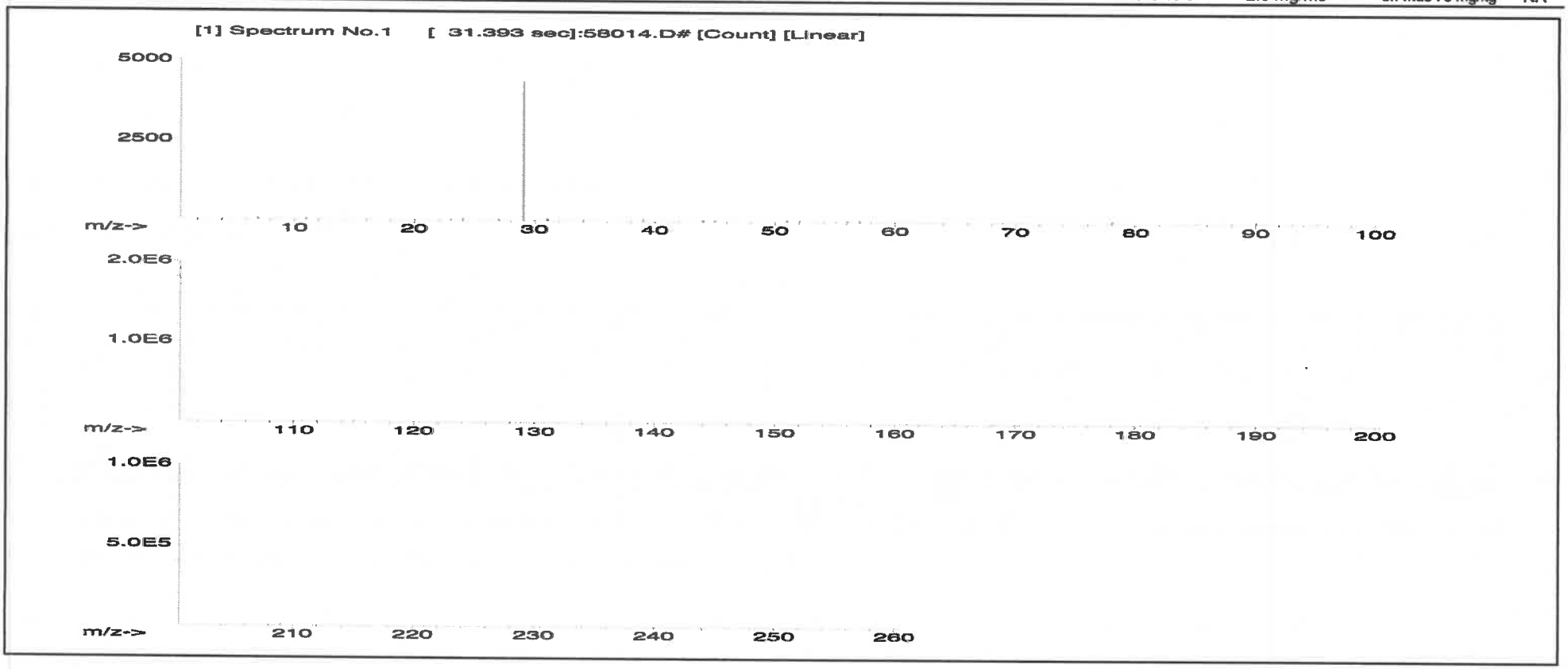
Aleah O'Brady

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



1018

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.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 02/09/24 M5819

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

1019

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

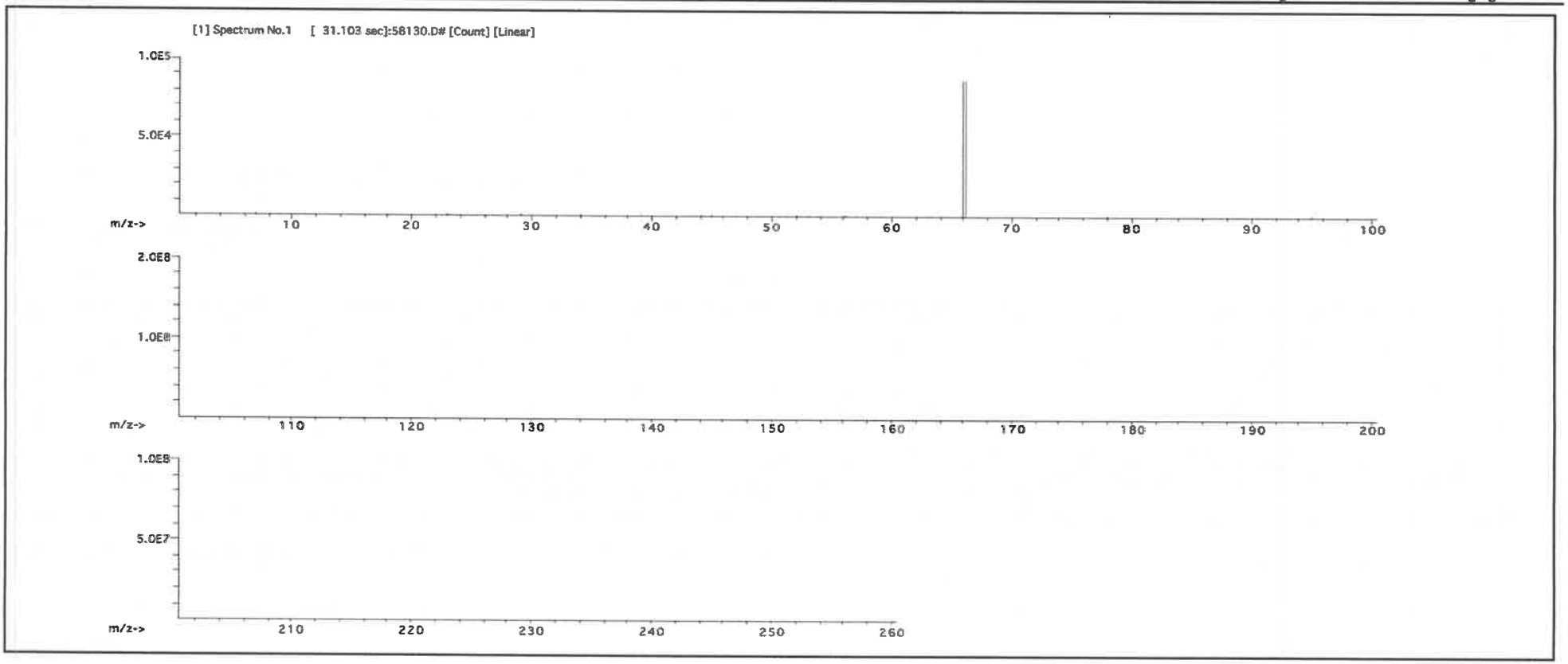
Weight shown below was diluted to (mL): 3000.4 0.06 Flask Uncertainty

	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



1020

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	T
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 02/09/24 M5820

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

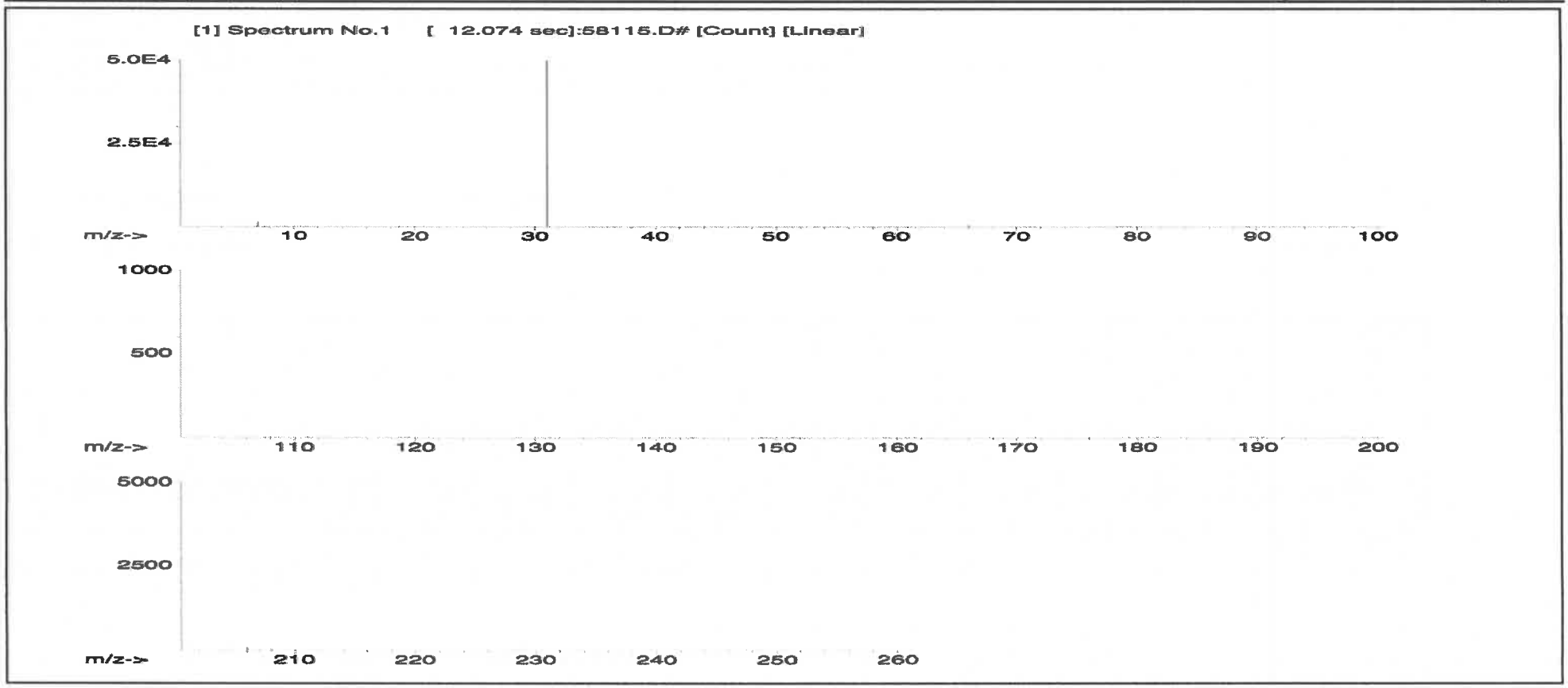
1021

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



1022

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

M5959 R: 6/14/24.

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 863.01
ACCREDITED Reference Material Producer Certificate 863.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGY10
Lot Number:	V2-Y740548
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Yttrium
Starting Material:	Yttrium Oxide
Starting Material Lot#:	2661 and 06230520YL
Starting Material Purity:	99.9984%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10000 ± 30 µg/mL

Density: 1.032 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**10011 ± 25 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #2	**9997 ± 50 µg/mL** ICP Assay NIST SRM 3167a Lot Number: 190730
Assay Method #3	**9984 ± 31 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

1023

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



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5960 KK R. 6/11/24

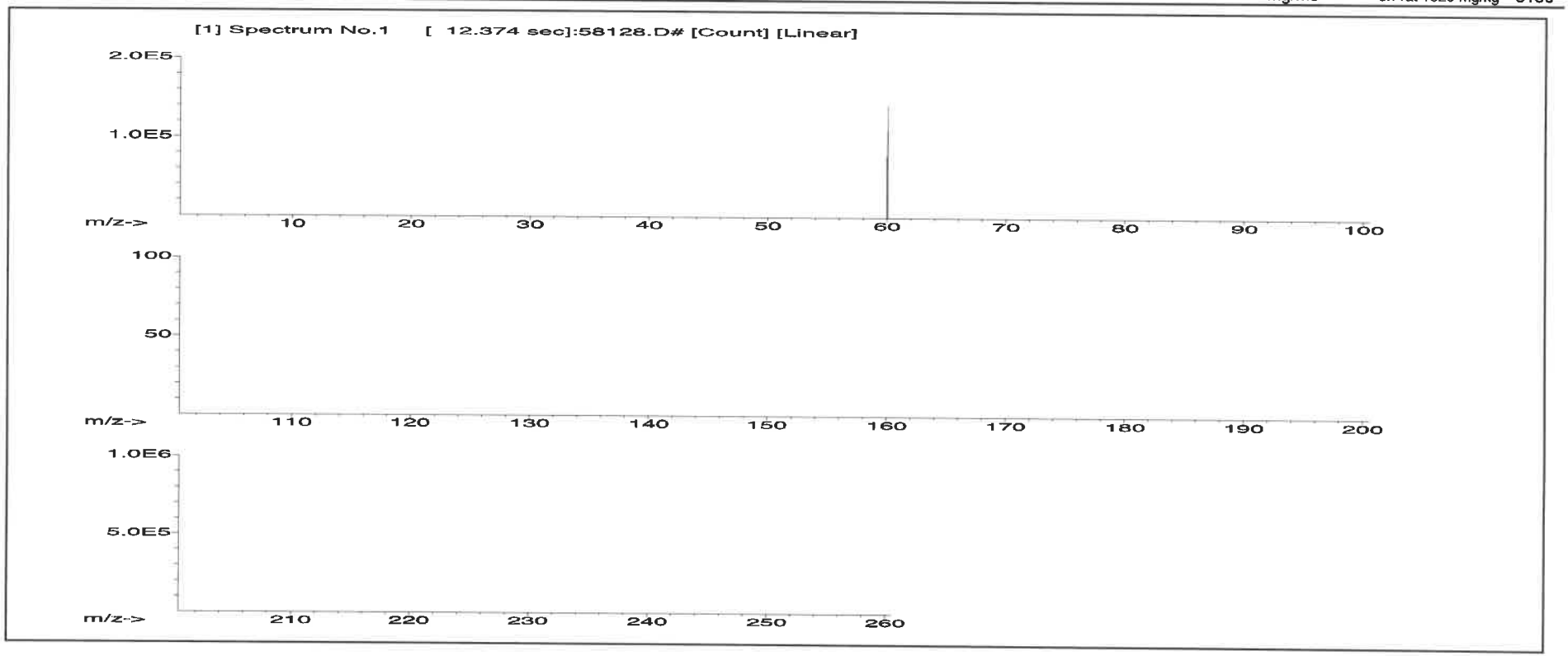
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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



1027

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).

1028

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5962 R! 06/14/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

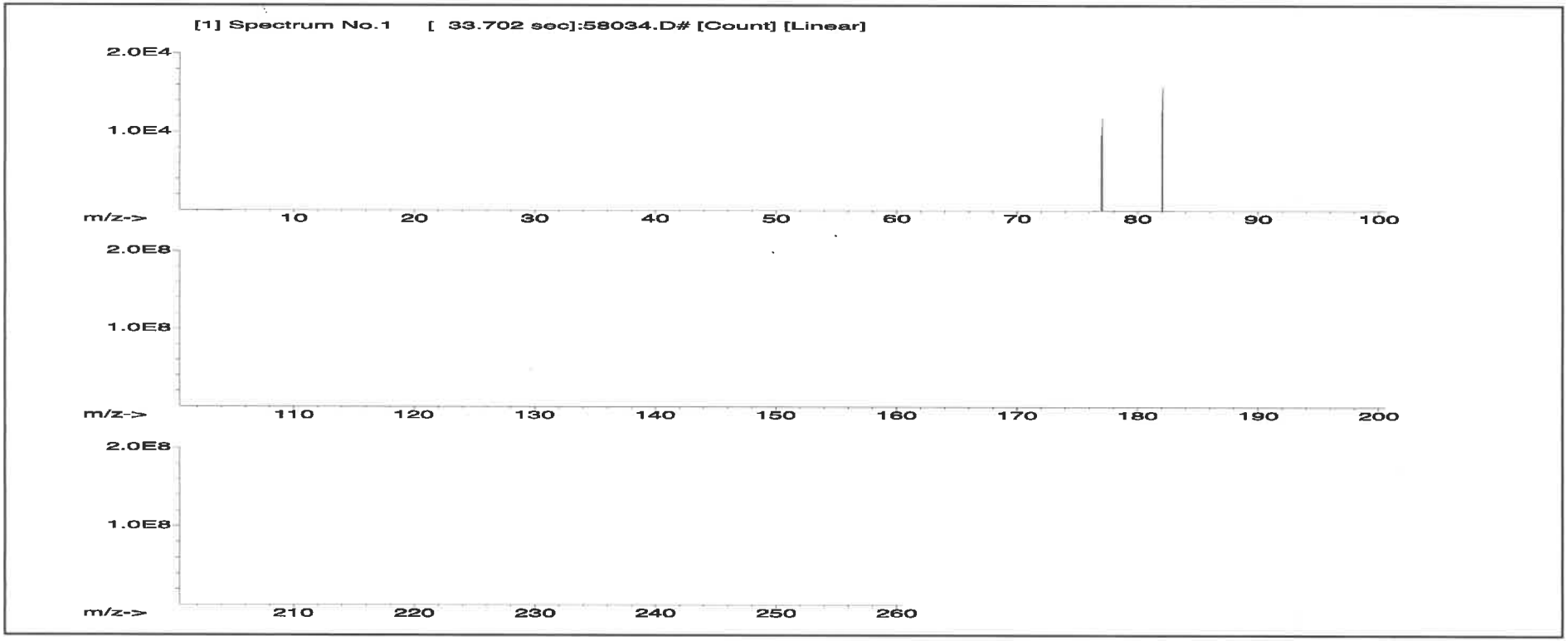
1029

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



1030

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).

1031

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5970, M5971 R: 7/01/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

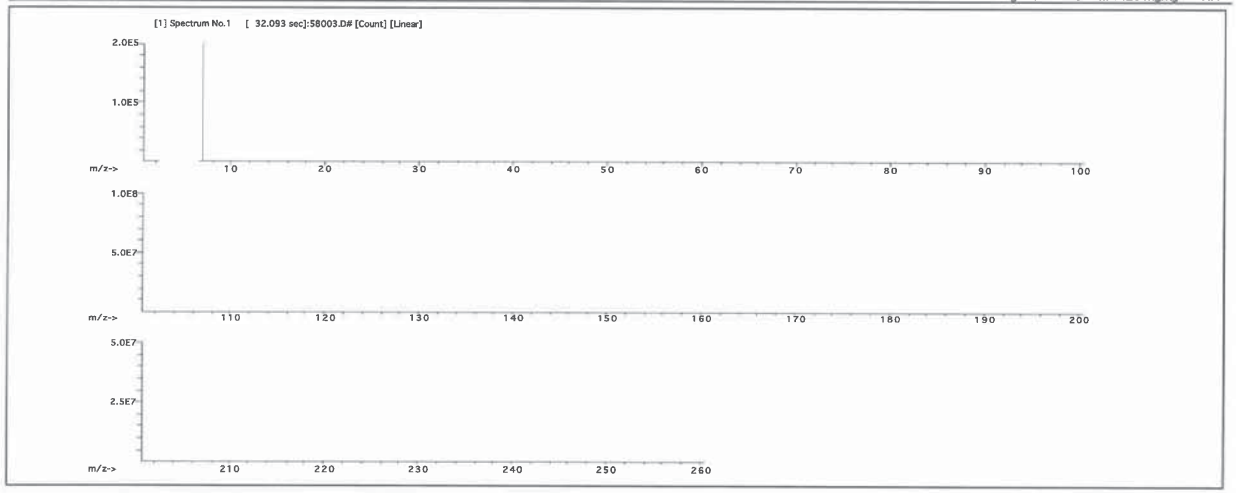
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57003**	24002546	Nitric Acid		
Lot Number:	**062124**				
Description:	**Lithium (Li)**	2.0%	5.0 (mL)	Nitric Acid	
Expiration Date:	062127				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	250.11	0.016	Flask Uncertainty		

Giovanni Esposito

Formulated By:	Giovanni Esposito	062124
Reviewed By:	Pedro L. Rentas	062124

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lithium nitrate (Li)	58103	070622	0.1000	25.0	0.004	1000	10000.4	**1000.0**	**2.0**	7790-69-4	5 mg/m3	orl-rat 1426 mg/kg	NA



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	T	Ni	<0.02	Pr	<0.02	Sc	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

M5976, M5977
R: 02/22/24

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMO1
Lot Number:	T2-MO720876
Matrix:	H2O tr. NH4OH
Value / Analyte(s):	1 000 µg/mL ea: Molybdenum
Starting Material:	Ammonium Molybdate
Starting Material Lot#:	2361
Starting Material Purity:	99.9893%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 998 ± 7 µg/mL

Density: 1.000 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **998 ± 4 µg/mL**
ICP Assay NIST SRM 3134 Lot Number: 130418

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance.

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

1033

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



1037

M5978, M5979

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

R: 2/22/24

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:

$X_{CRM/RM} = \Sigma(w_i)(\bar{x}_i)$

$\bar{x}_i$ = 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:

$X_{CRM/RM} = (\bar{x}_a)\,(u_{char\ a})$

$\bar{x}_a$ = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000536	M	Eu	<	0.000268	O	Na	<	0.032670	M	Se		0.001204	O	Zn	<	0.003267
O	Al		0.000872	O	Fe		0.003225	O	Nb	<	0.043560	O	Si		0.004735	O	Zr	<	0.043560
M	As	<	0.008586	M	Ga	<	0.000268	M	Nd	<	0.000268	M	Sm	<	0.000268				
M	Au	<	0.004577	M	Gd	<	0.000268	O	Ni	<	0.010890	M	Sn		0.000096				
O	B	<	0.008929	M	Ge	<	0.002146	M	Os	<	0.000269	O	Sr		0.000096				
M	Ba	<	0.002683	M	Hf		0.002161	O	P	<	0.054450	M	Ta		0.010560				
M	Be	<	0.005366	M	Hg	<	0.003231	M	Pb	<	0.001073	M	Tb	<	0.000268				
M	Bi	<	0.001609	M	Ho	<	0.000268	M	Pd	<	0.000268	M	Te	<	0.001341				
O	Ca		0.000676	M	In	<	0.002683	M	Pr	<	0.000268	M	Th	<	0.053663				
M	Cd	<	0.000268	M	Ir	<	0.000269	M	Pt	<	0.000536	s	Ti	<					
M	Ce	<	0.000268	M	K		0.001172	M	Rb	<	0.000268	M	Tl	<	0.000268				
M	Co	<	0.004293	M	La	<	0.000268	M	Re	<	0.000268	M	Tm	<	0.000268				
M	Cr		0.000752	O	Li	<	0.027225	M	Rh	<	0.000268	M	U	<	0.000268				
M	Cs	<	0.000268	M	Lu	<	0.000268	M	Ru	<	0.000269	M	V	<	0.019855				
O	Cu	<	0.010890	O	Mg	<	0.005445	i	S	<		M	W		0.000473				
M	Dy	<	0.000268	O	Mn	<	0.003267	M	Sb	<	0.006976	M	Y	<	0.002146				
M	Er	<	0.000268	M	Mo		0.000774	O	Sc	<	0.004900	M	Yb	<	0.000536				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 47.87 +4 6 Ti(F)6-2

Chemical Compatibility - Soluble in concentrated HCl, HF, H3PO4 H2SO4 and HNO3. Avoid neutral to basic media. Unstable at ppm levels with metals that would pull F- away (i.e. Do not mix with Alkaline or Rare Earths or high levels of transition elements unless they are fluorinated). Stable with most inorganic anions with a tendency to hydrolyze forming the hydrated oxide in all dilute acids except HF.

Stability - 2-100 ppb levels stable (Alone or mixed with all other metals) as the Ti(F)6-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the Ti(F)6-2 chemically stable for years in 2-5% HNO3 / trace HF in an LDPE container.

Ti Containing Samples (Preparation and Solution) - Metal (Soluble in H2O / HF caution -powder reacts violently); Oxide - low temperature history anatase or rutile (Dissolved by heating in 1:1:1 H2O / HF / H2SO4); Oxide - high temperature history (~800EC) brookite (fuse in Pt0 with K2S2O7); Ores (fuse in Pt0 with KF + K2S2O7 - no KF if silica not present); Organic Matrices (Dry ash at 450EC in Pt0 and dissolve by heating with 1:1:1 H2O / HF / H2SO4 or fuse ash with pyrosulfate if oxide is as plastic pigment and likely in brookite crystalline form).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Interferences (underlined indicates severe)
ICP-MS 48 amu	14 ppt	N/A	32S16O, 32S14N, 14N16O18O, 14N17N2, 36Ar12C, 48Ca, [96X=2 (where X = Zr, Mo, Ru)]
ICP-OES 323.452 nm	0.0054 / 0.00092 µg/mL	1	Ce, Ar, Ni
ICP-OES 334.941 nm	0.0038 / 0.000028 µg/mL	1	Nb, Ta, Cr, U
ICP-OES 336.121 nm	0.0053 / 0.000034 µg/mL	1	W, Mo, Co

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- June 17, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

45982 R: 6/11/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

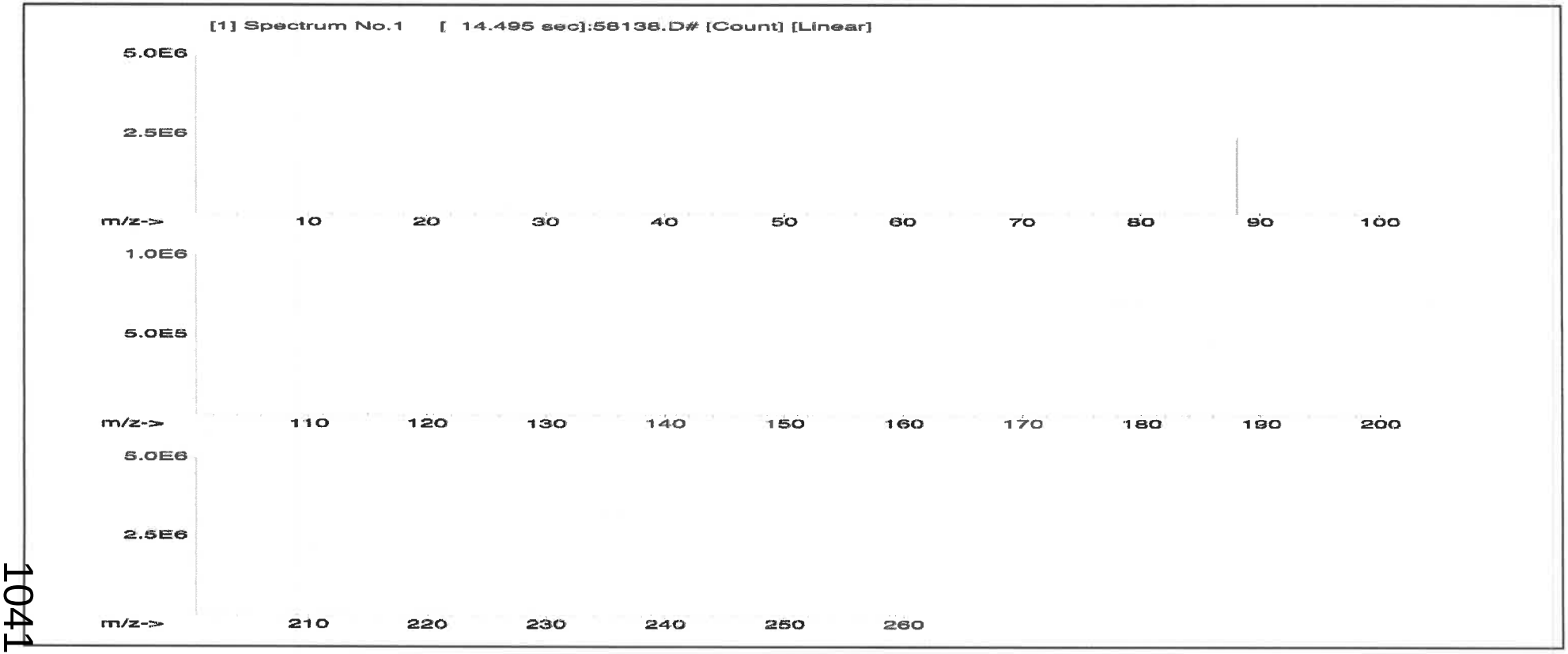
Part Number: 57038
Lot Number: 031524
Description: Strontium (Sr)

Expiration Date: 031527
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.07

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	
5E-05	Balance Uncertainty		
0.100	Flask Uncertainty		

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



1041

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).

1042

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

MS985
R: 6/14/24

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 863.01
ACCREDITED Reference Material Producer Certificate 863.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGIN10
Lot Number:	U2-IN729349
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Indium
Starting Material:	Indium Metal
Starting Material Lot#:	2511
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10022 ± 30 µg/mL

Density: 1.044 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**10021 ± 56 µg/mL** ICP Assay NIST SRM 3124a Lot Number: 110516
Assay Method #2	**10035 ± 25 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #3	**10001 ± 33 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000760	M	Eu	<	0.000760	O	Na		0.012771	M	Se	<	0.023000	M	Zn	<	0.006100
M	Al		0.003385	O	Fe		0.004462	M	Nb	<	0.000760	O	Si		0.024619	M	Zr	<	0.000760
M	As	<	0.004600	M	Ga	<	0.000760	M	Nd	<	0.000760	M	Sm	<	0.000760				
M	Au	<	0.002300	M	Gd	<	0.000760	O	Ni	<	0.005100	M	Sn	<	0.000760				
O	B		0.003692	M	Ge	<	0.001600	M	Os	<	0.000760	O	Sr	<	0.000610				
M	Ba	<	0.001600	M	Hf	<	0.000760	n	P	<		M	Ta	<	0.000760				
O	Be	<	0.000130	M	Hg	<	0.003100	M	Pb		0.001400	M	Tb	<	0.000760				
M	Bi	<	0.000760	M	Ho	<	0.000760	M	Pd	<	0.001600	M	Te	<	0.000760				
O	Ca		0.004616	s	In	<		M	Pr	<	0.000760	M	Th	<	0.000760				
M	Cd	<	0.000760	M	Ir	<	0.000760	M	Pt	<	0.000760	O	Ti	<	0.001100				
M	Ce	<	0.000760	O	K		0.007078	M	Rb	<	0.000760	M	Tl	<	0.000760				
M	Co	<	0.000760	M	La	<	0.000760	M	Re	<	0.000760	M	Tm	<	0.000760				
O	Cr	<	0.001300	O	Li	<	0.000130	M	Rh	<	0.000760	M	U	<	0.000760				
M	Cs	<	0.000760	M	Lu	<	0.000760	M	Ru	<	0.000760	M	V	<	0.001600				
M	Cu	<	0.003800	O	Mg		0.000707	n	S	<		M	W	<	0.001600				
M	Dy	<	0.000760	O	Mn		0.000149	M	Sb	<	0.000760	M	Y	<	0.000760				
M	Er	<	0.000760	M	Mo	<	0.002300	M	Sc	<	0.000760	M	Yb	<	0.000760				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 114.82 +3 6 In(H2O)6+3

Chemical Compatibility -Soluble in HCl, HNO3, and H2SO4. Avoid neutral and basic media. Stable with most metals and inorganic anions. The oxalate, sulfide, carbonate, hydroxide and phosphate are insoluble in water.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

In Containing Samples (Preparation and Solution) -Metal (Best dissolved in HCl / HNO3); Oxide (Soluble in mineral acids); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric/peroxide digestion or dry ash and dissolution in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 115 amu	1 ppt	n/a	115Sn, 99Ru16O
ICP-OES 158.583 nm	0.05 / 0.002 µg/mL	1	
ICP-OES 230.606 nm	0.1 / 0.03 µg/mL	1	Ni, Os
ICP-OES 325.609 nm	0.2 / 0.05 µg/mL	1	Mn, Mo, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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



Certificate of Analysis

Refine your results. Redefine your industry.

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

R: 2/22/2024
M5999

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-SPK-1
Lot Number:	T2-MEB721963
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	2 000 µg/mL ea: Aluminum, Barium, 1 000 µg/mL ea: Iron, 500 µg/mL ea: Manganese, Nickel, Vanadium, Zinc, Cobalt, 250 µg/mL ea: Copper, 200 µg/mL ea: Chromium, 50 µg/mL ea: Beryllium, Silver

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	2 000 ± 7 µg/mL	Barium, Ba	2 000 ± 9 µg/mL
Beryllium, Be	50.00 ± 0.26 µg/mL	Chromium, Cr	200.0 ± 1.1 µg/mL
Cobalt, Co	500.0 ± 2.4 µg/mL	Copper, Cu	250.0 ± 1.0 µg/mL
Iron, Fe	1 000 ± 4 µg/mL	Manganese, Mn	500.0 ± 2.0 µg/mL
Nickel, Ni	500.0 ± 2.2 µg/mL	Silver, Ag	50.00 ± 0.22 µg/mL
Vanadium, V	500.0 ± 2.2 µg/mL	Zinc, Zn	500.0 ± 2.2 µg/mL

Density: 1.070 g/mL (measured at 20 ± 4 °C)

Assay Information:

1047

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Ag	Calculated		See Sec. 4.2
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
V	IC Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)\,(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 27, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- July 27, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 01/03/24 M6033

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

1051

CERTIFIED WEIGHT REPORT:

Part Number:	**58113**		**Solvent:**	20510011	Nitric Acid
Lot Number:	**011623**				
Description:	**Aluminum (Al)**				
			2%	40.0 (mL)	Nitric Acid
Expiration Date:	011626				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Lot #

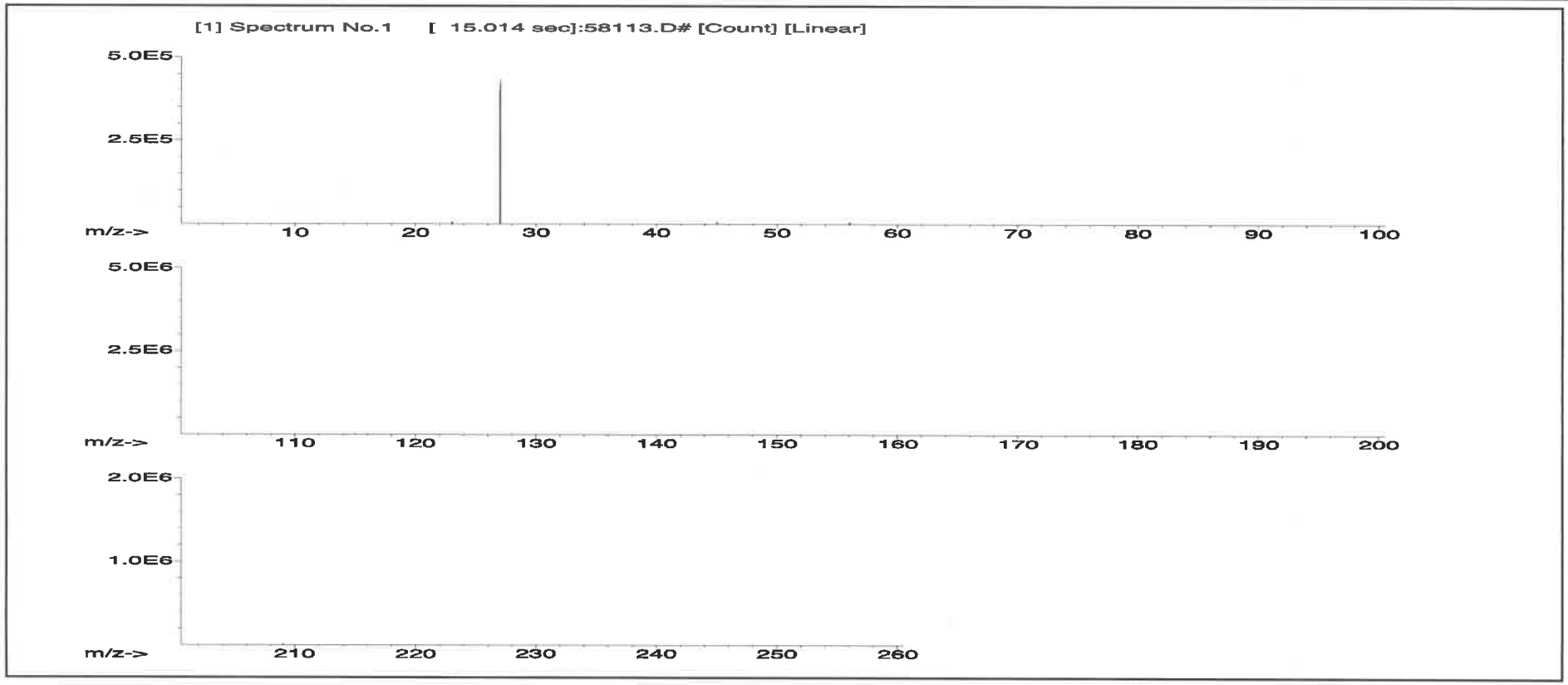
Giovanni Esposito

Formulated By:	Giovanni Esposito	011623

Pedro Rentas

Reviewed By:	Pedro L. Rentas	011623

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Aluminum nitrate nonahydrate (Al)	IN022	ALM112021A1	10000	99.999	0.10	7.30	273.9779	274.0078	**10001.1**	**20.0**	7784-27-2	2 mg/m3	orl-rat 3671 mg/kg	3101a



Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M6109
M6110
M6111

Received date 9/29/24 Met dig.

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22F0762009
Manufactured Date: 2022-05-10
Retest Date: 2027-05-09
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid-base titrn)	36.5 – 38.0 %	37.6 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.190
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	0.8 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	14.9 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>

For questions on this Certificate of Analysis please contact Technical Services at 855 282 6867 or +1 610 386 1700

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22F0762009

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	0.8 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	1.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	0.7 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	0.2 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.8 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22F0762009

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

Nitric Acid 69%
CMOS

M6112
M6113
M6114
M6115
M6116
M6117

Receive:
9/29/24
Met dig

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001
Manufactured Date: 2024-01-25
Retest Date: 2029-01-23
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.6 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	< 0.2 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	3 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	1 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Nitric Acid 69%
CMOS

M6112
M6113
M6114
M6115
M6116
M6117

Receive:
9/29/24
Met dig

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001
Manufactured Date: 2024-01-25
Retest Date: 2029-01-23
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.6 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	< 0.2 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	3 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	1 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

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

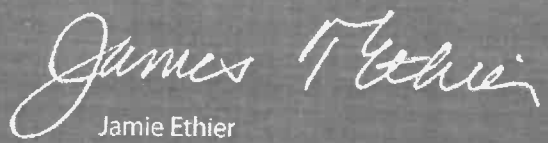
1061

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

1062

M6125 Receive -> 11/22/24

CORCO CHEMICAL CORPORATION

Manufacturers of ACS Reagents and Semiconductor Grade Chemicals

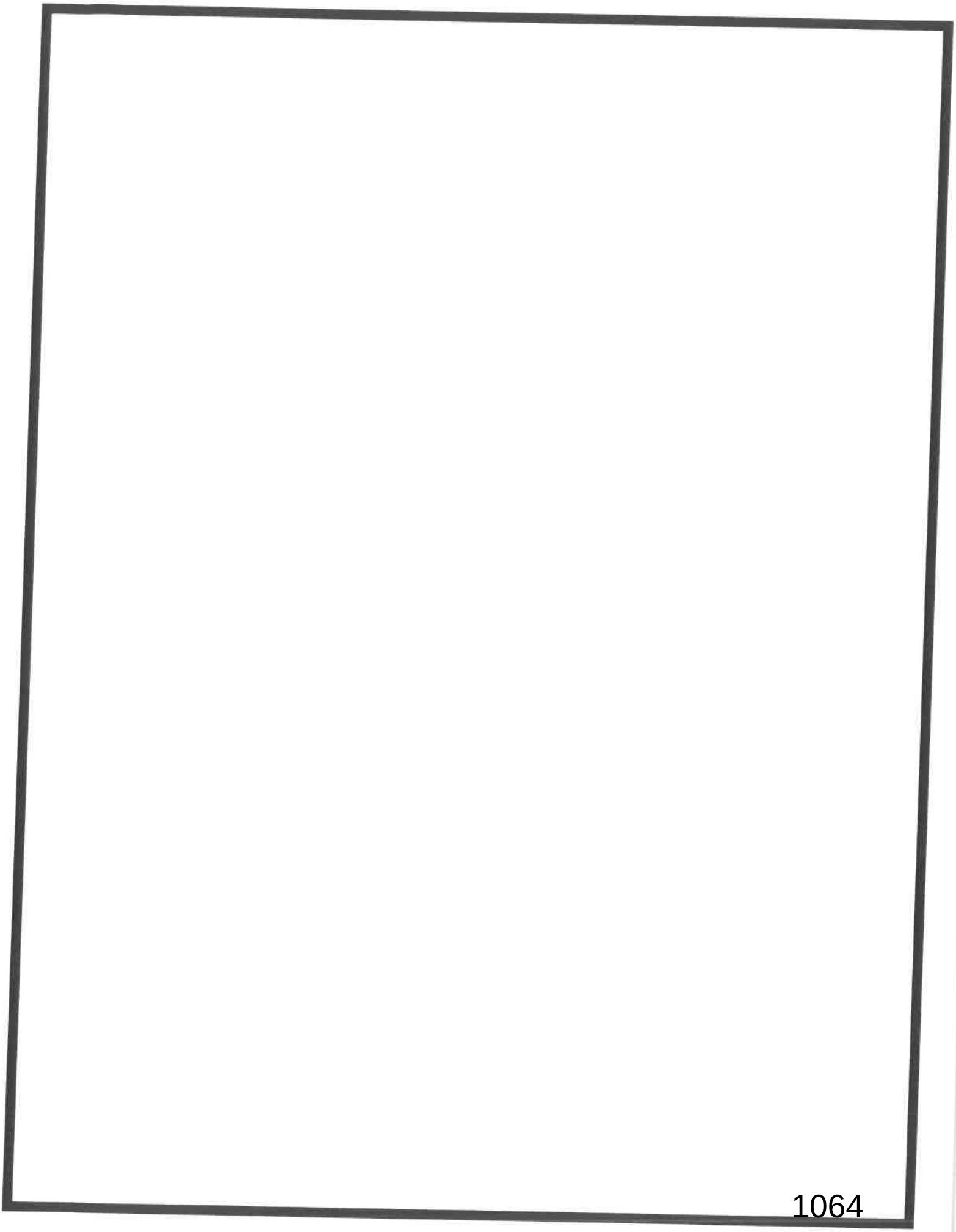
Office and Plant
299 Cedar Lane
Fairless Hills, PA 19030

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

1067

CERTIFIED WEIGHT REPORT:

Part Number: 58111
Lot Number: 122223
Description: Sodium (Na)

Expiration Date: 122226
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

Weight shown below was diluted to (mL): 3000.4 ± 0.06 Flask Uncertainty

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

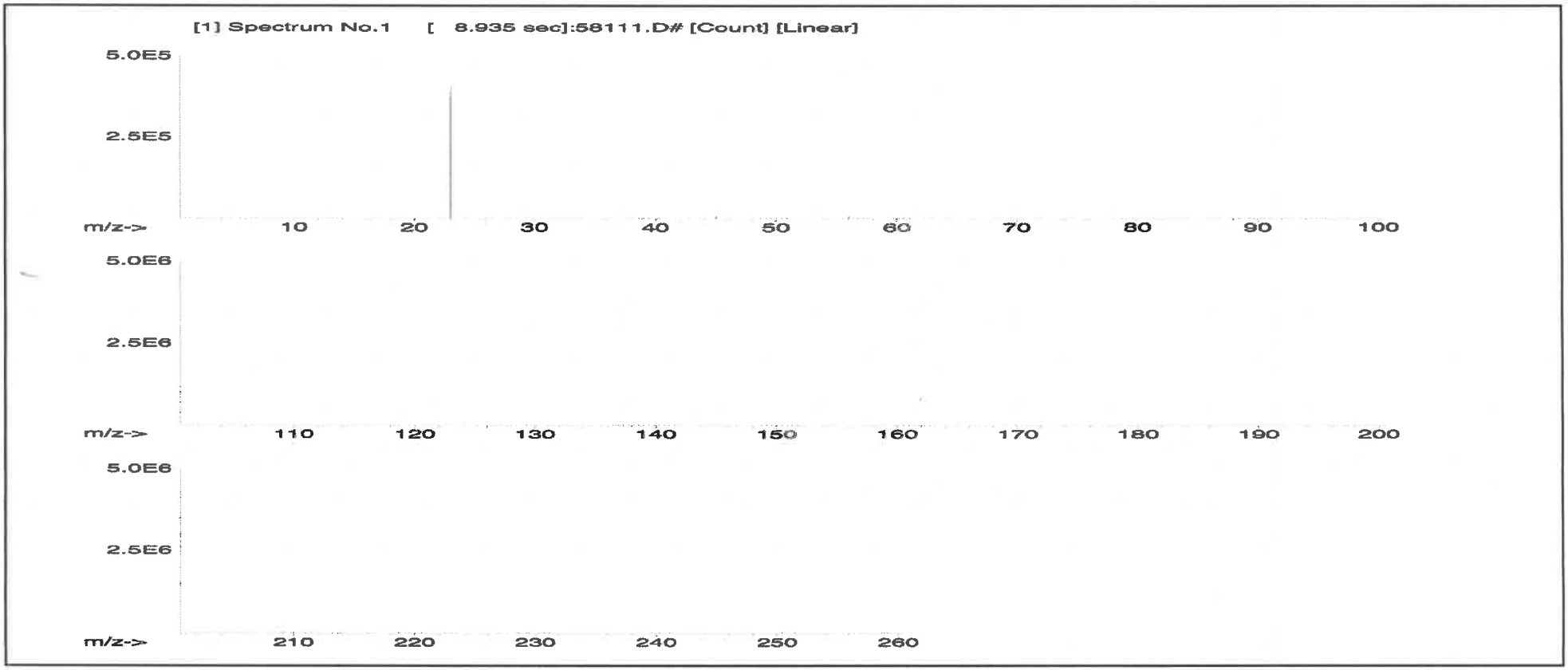
5E-05 Balance Uncertainty

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



1068

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).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

R: 01/03/24 M5802, M5803

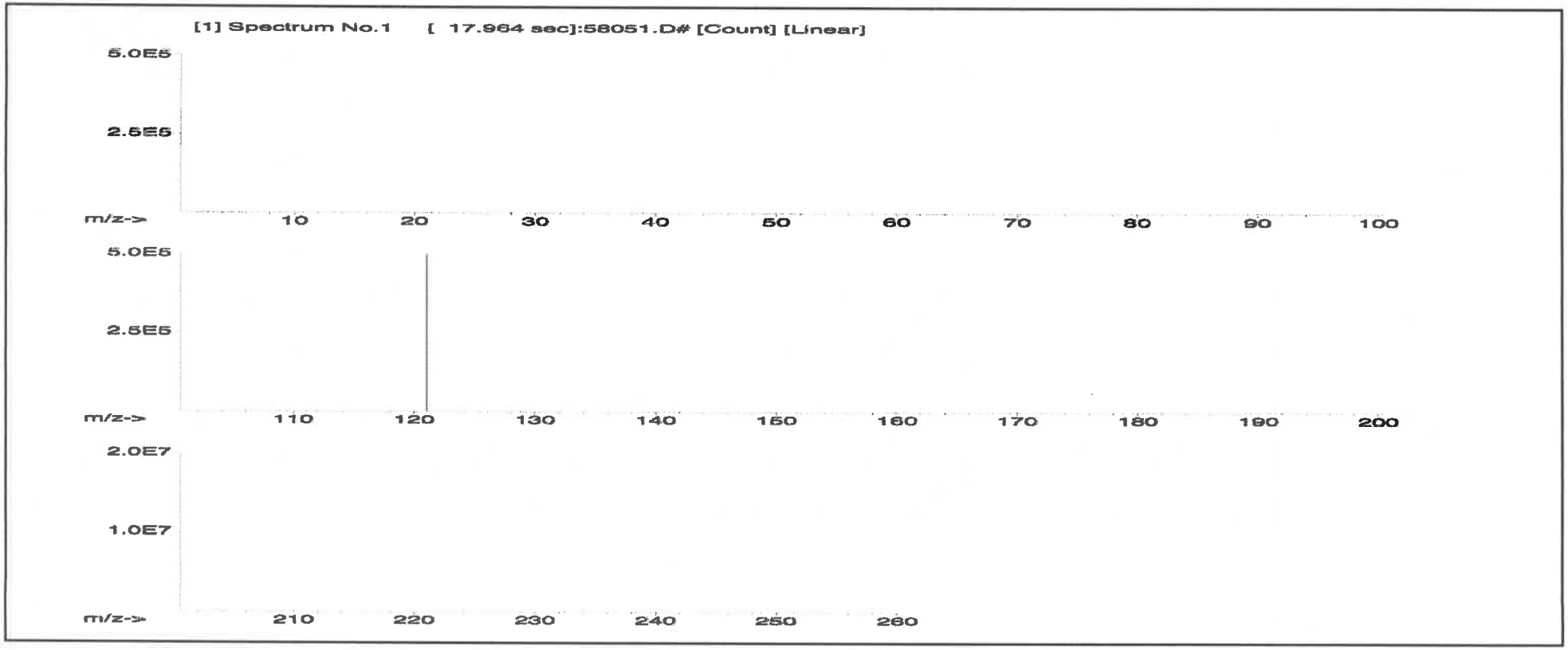
1069

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



10700

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	T	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6030

R: 8/5/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

1071

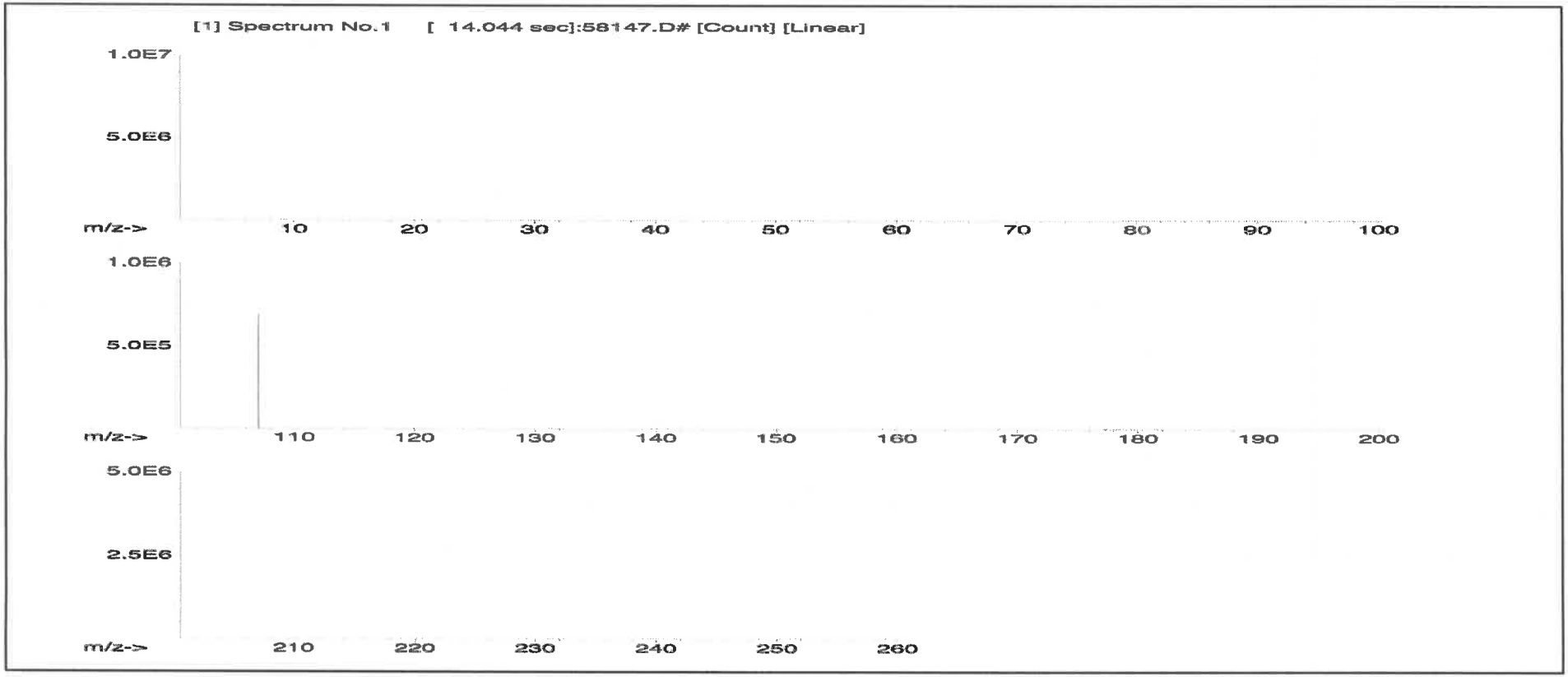
CERTIFIED WEIGHT REPORT:

Part Number:	**57047**		**Solvent:**	24002546	Nitric Acid
Lot Number:	**122823**				
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		

Lot #

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



1072

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	T	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 03/16/23 M5473, M5474, M5475, M5476

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

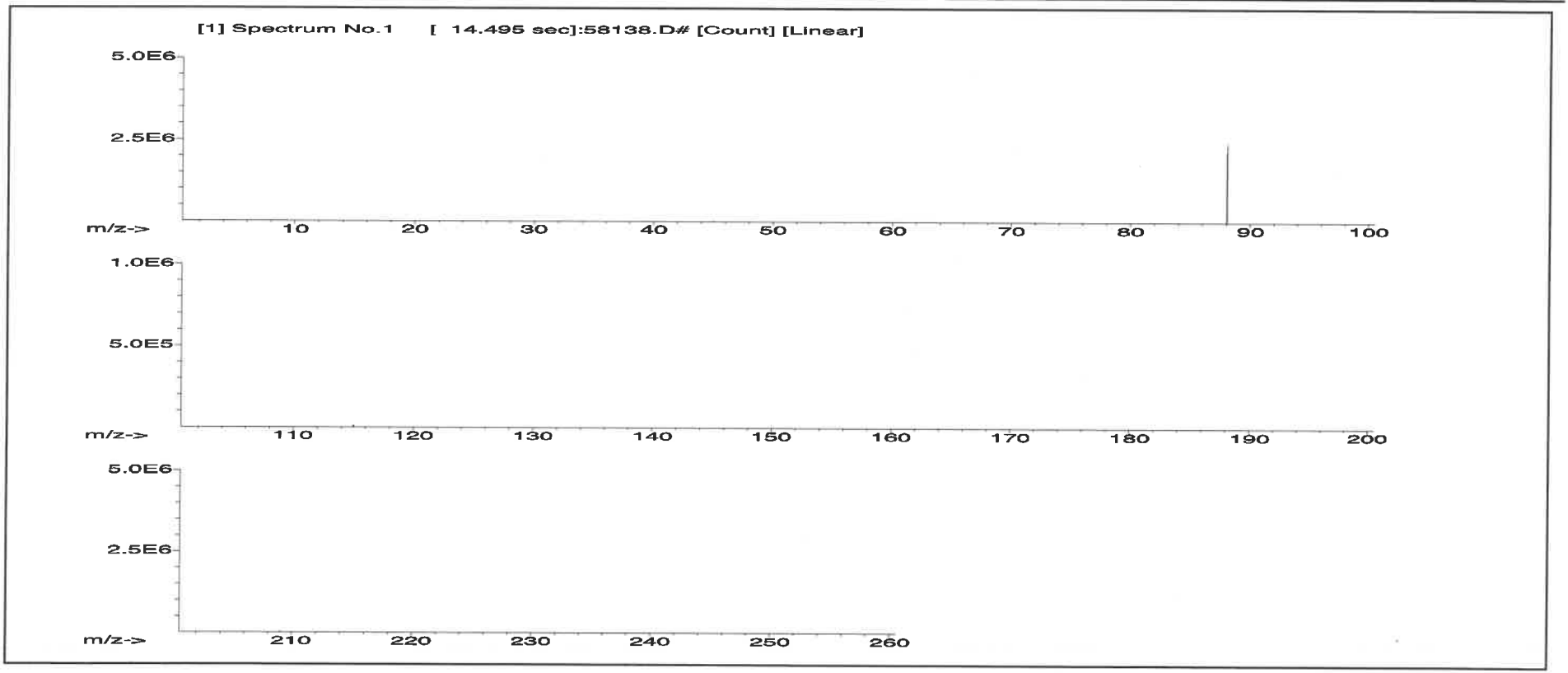
1073

CERTIFIED WEIGHT REPORT:

Part Number:	**56138**		**Lot #**		
Lot Number:	**082922**	**Solvent:**	20510011	Nitric Acid	
Description:	**Strontium (Sr)**				
		2%	20.0 (mL)	Nitric Acid	
Expiration Date:	082925				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	1000.12	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	082922
Reviewed By:	Pedro L. Rentas	082922

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Strontium nitrate (Sr)	IN017	SRZ022018A1	10000	99.997	0.10	41.2	24.2756	24.2758	**10000.1**	**20.0**	10042-76-9	NA	orl-rat >2000mg/kg	3153a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 03/16/23 M5473, M5474, M5475, M5476

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

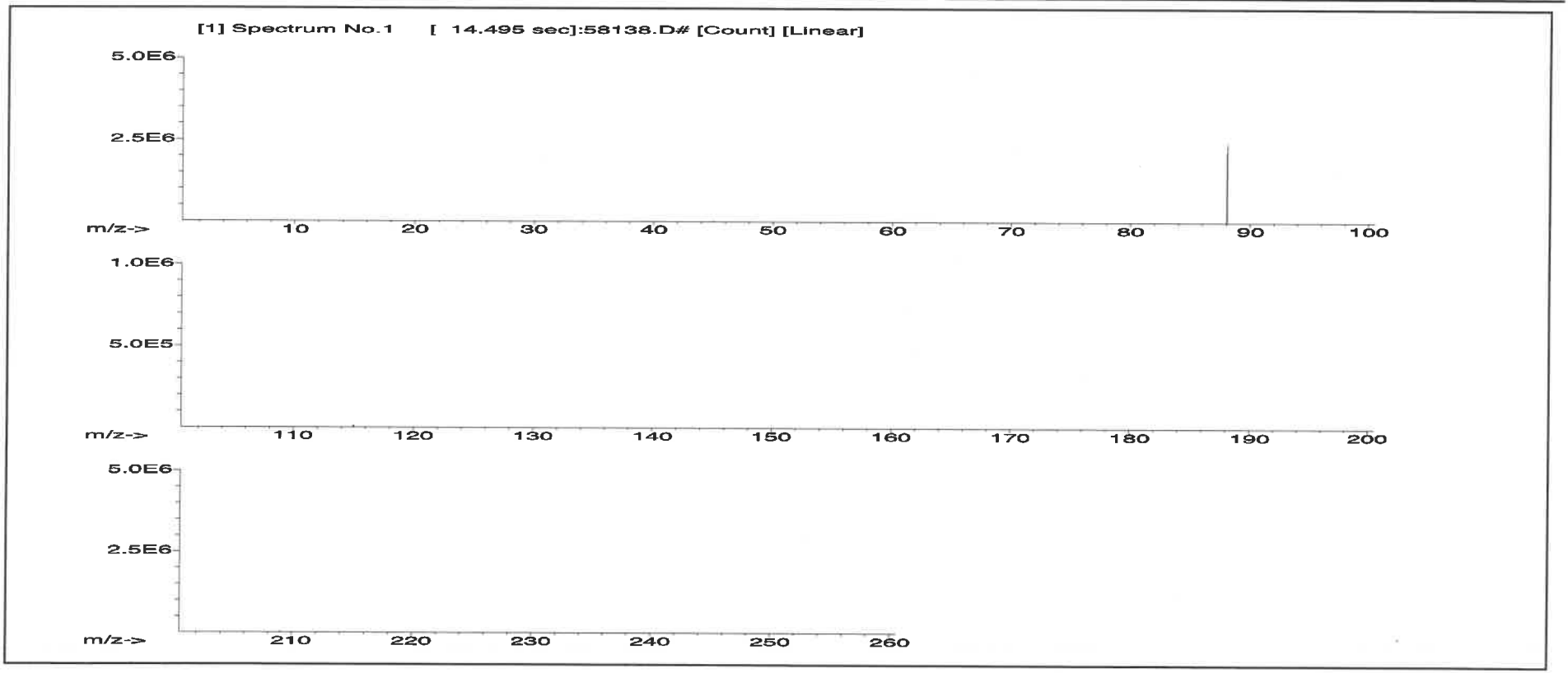
1075

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



10796

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6023

R ! 8/5/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

1077

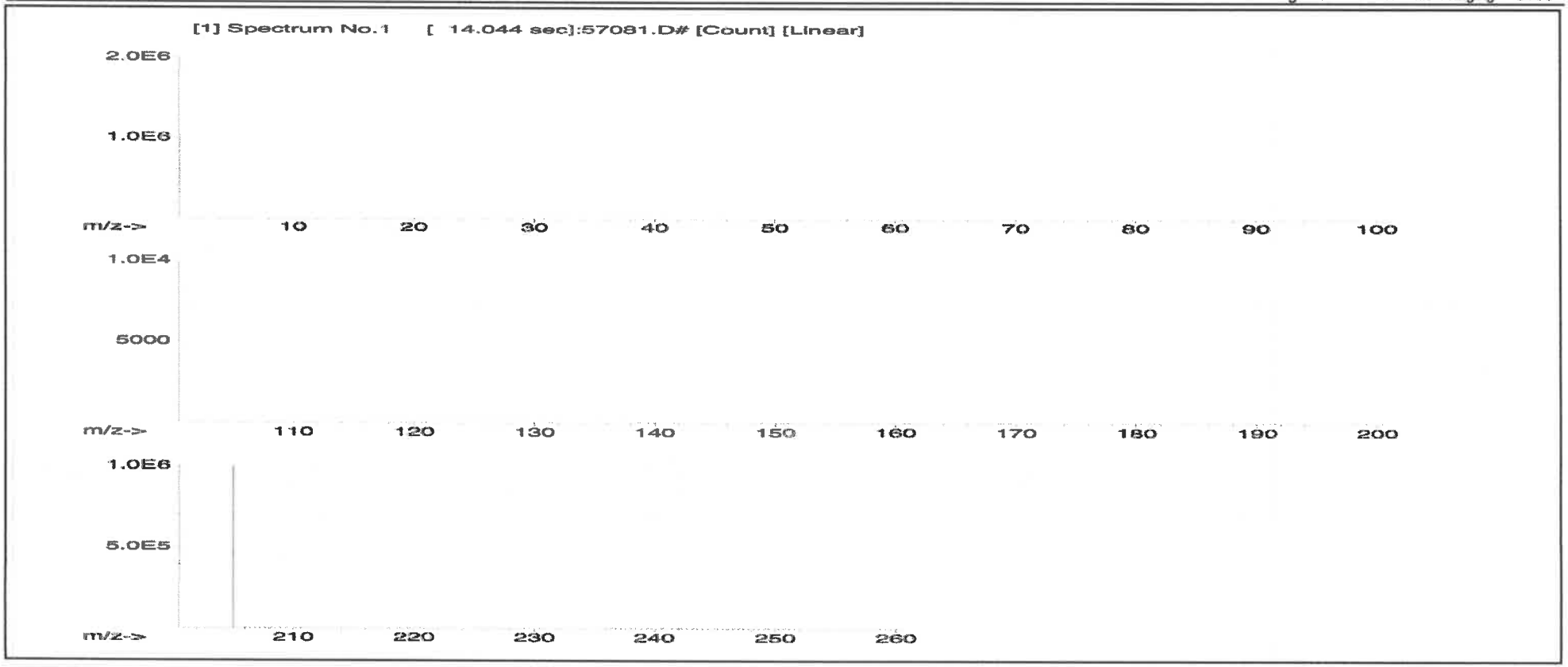
CERTIFIED WEIGHT REPORT:

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



1078

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	T	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6021

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Rc. 8/5/24

1079

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57023**	24002546	Nitric Acid	
Lot Number:	**062424**			
Description:	**Vanadium (V)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	062427			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.3	0.06	Flask Uncertainty	

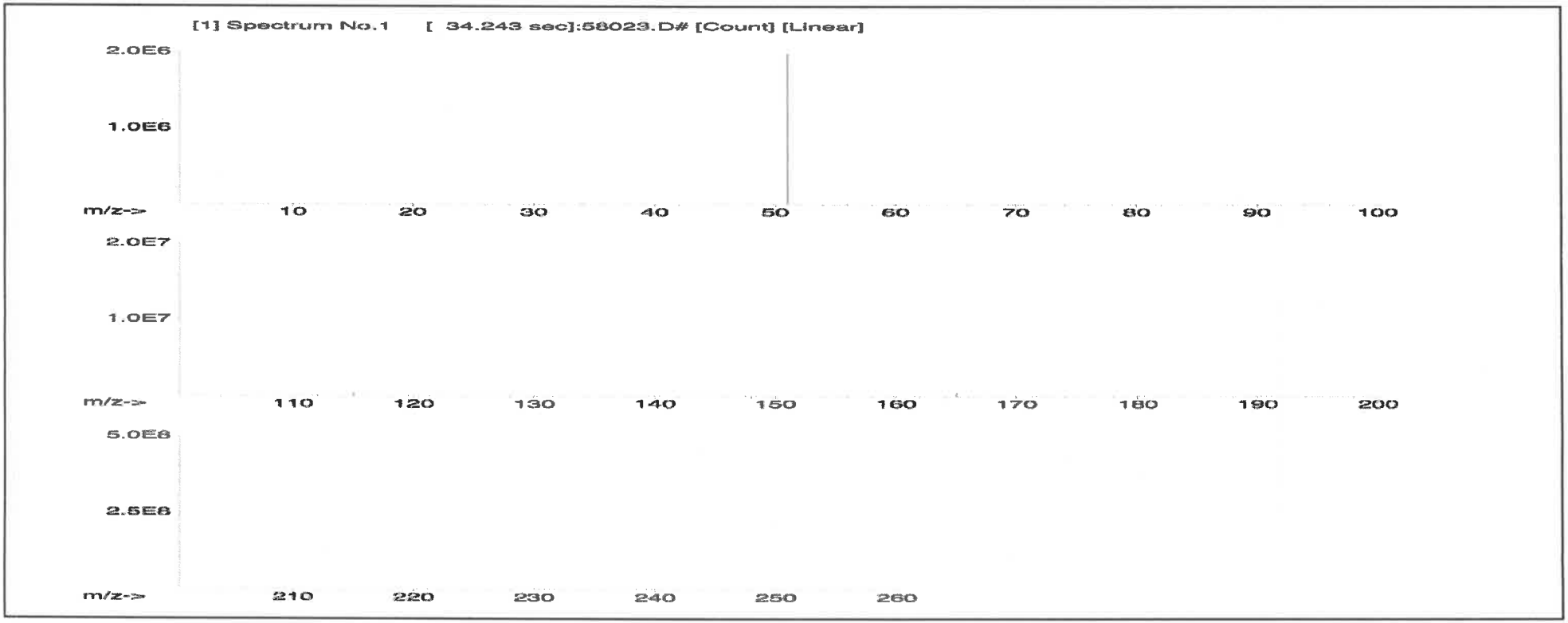
Aleah O'Brady

Formulated By:	Aleah O'Brady	062424

Pedro Rentas

Reviewed By:	Pedro L. Rentas	062424

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium metavanadate (V)	58123	021224	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	7803-55-6	0.05 mg/m3	orl-rat 58.1mg/kg	3165



1080

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	T
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB165373

SOP ID : M3050B-Digestion-20, MSFAM01.1-Trace Metals-2

SDG No : MBHK93

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: 12/04/2024 **Time :** 12:20 **Temp :** 96 °C

End Digest Date: 12/04/2024 **Time :** 14:30 **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	MP83141
Spike Sol 6	1.00	MP83147
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
1:1 HNO3	10.00	MP83122
Conc. HNO3	5.00	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 #34 : 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/4/24 15:00		
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB165373

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
P5033-01	MBHK93	N/A	1.28	100	Brown	Yellow	Medium	N/A	N/A	1
P5033-02	MBHK94	N/A	1.31	100	Brown	Yellow	Medium	N/A	N/A	2
P5033-03	MBHK95	N/A	1.46	100	Brown	Yellow	Medium	N/A	N/A	3
P5033-04	MBHK96	N/A	1.45	100	Brown	Yellow	Medium	N/A	N/A	4
P5033-05	MBHK97	N/A	1.26	100	Black	Yellow	Medium	N/A	N/A	5
P5033-06	MBHK97D	N/A	1.16	100	Brown	Yellow	Medium	N/A	N/A	6
P5033-07	MBHK97S	N/A	1.40	100	Brown	Yellow	Medium	N/A	MP83147	7
P5033-08	MBHK98	N/A	1.32	100	Brown	Yellow	Medium	N/A	N/A	8
P5033-09	MBHK99	N/A	1.25	100	Brown	Yellow	Medium	N/A	N/A	9
P5033-10	MBHKA0	N/A	1.49	100	Brown	Yellow	Medium	N/A	N/A	10
P5033-11	MBHKA1	N/A	1.35	100	Brown	Yellow	Medium	N/A	N/A	11
P5033-12	MBHKA2	N/A	1.47	100	Brown	Yellow	Medium	N/A	N/A	12
P5033-13	MBHKA3	N/A	1.44	100	Brown	Yellow	Medium	N/A	N/A	13
P5033-14	MBHKG8	N/A	1.26	100	Brown	Yellow	Medium	N/A	N/A	14
P5033-15	MBHKG9	N/A	1.20	100	Black	Yellow	Medium	N/A	N/A	15
P5033-16	MBHKH0	N/A	1.31	100	Black	Yellow	Medium	N/A	N/A	16
P5033-17	MBHKH1	N/A	1.30	100	Brown	Yellow	Medium	N/A	N/A	17
P5033-18	MBHKH2	N/A	1.24	100	Brown	Yellow	Medium	N/A	N/A	18
P5033-19	MBHKH3	N/A	1.33	100	Brown	Yellow	Medium	N/A	N/A	19
P5033-20	MBHKP7	N/A	1.27	100	Brown	Yellow	Medium	N/A	N/A	20
PB165373BL	PBS373	N/A	1.00	100	Colorless	Colorless	Fine	N/A	N/A	21
PB165373BS	LCS373	N/A	1.00	100	Colorless	Colorless	Fine	N/A	MP83141	22

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB165669

SOP ID : M200.7-Trace Elements-22, MSFAM01.1-Trace Metals-2

SDG No : MBHK12,MBHK93,MBHL70

Matrix : WATER

Pippete ID: ICP A

Balance ID : N/A

Filter paper ID : N/A

pH Strip ID : M6069

Hood ID : #3

Block ID: 1. HOT BLOCK #1 2. N/A

Start Digest Date: 12/16/2024 **Time :** 13:15 **Temp :** 96 °C

End Digest Date: 12/16/2024 **Time :** 14:05 **Temp :** 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: SKG.

Supervisor Signature:

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LCSW	1.00	MP83506
N/A	N/A	N/A
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	1.00	MP83498
1:1 HCL	0.50	MP83499
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK #1 CELL #55 :96

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/16/24 18:09	SKG. met digestion	SG metals lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB165669

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
P5015-02	MBHK13	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	1
P5033-21	MBHKQ4	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	2
P5059-20	MBHLD7	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	3
P5059-21	MBHLD8	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	4
P5092-20	MBHM40	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	5
P5132-21	MBHMN5	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	6
P5200-15	MBHNJ3	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	7
P5212-09	MBHNJ4	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	8
PB165669BL	PBW669	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	9
PB165669BS	LCS669	<2	50	50	Colorless	Colorless	Clear	Clear	MP83506	10

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 # LB133959

Review By	Sarabjit Jaswal	Review On	12/18/2024 3:01:58 AM
Supervise By	Mohan Bera	Supervise On	12/18/2024 3:02:43 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	
Chk Standard	MP83513,MP83514

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	12/15/24 17:13		Kareem	OK
2	S1	S01	CAL2	12/15/24 17:17		Kareem	OK
3	S2	S02	CAL3	12/15/24 17:21		Kareem	OK
4	S3	S03	CAL4	12/15/24 17:25		Kareem	OK
5	S4	S04	CAL5	12/15/24 17:29		Kareem	OK
6	S5	S05	CAL6	12/15/24 17:32		Kareem	OK
7	S6	S06	CAL7	12/15/24 17:36		Kareem	OK
8	ICV004	ICV004	ICV	12/15/24 17:40		Kareem	OK
9	ICB004	ICB004	ICB	12/15/24 17:44		Kareem	OK
10	ICSA004	ICSA004	ICSA	12/15/24 17:48		Kareem	OK
11	ICSAB004	ICSAB004	ICSAB	12/15/24 17:52		Kareem	OK
12	CCV029	CCV029	CCV	12/15/24 17:56		Kareem	OK
13	CCB029	CCB029	CCB	12/15/24 17:59		Kareem	OK
14	PB165442BL	PBS442	MB	12/15/24 18:03		Kareem	OK
15	PB165442BS	LCS442	LCS	12/15/24 18:07		Kareem	OK
16	PB165377BL	PBS377	MB	12/15/24 18:11		Kareem	OK
17	PB165377BS	LCS377	LCS	12/15/24 18:15		Kareem	OK
18	PB165359BL	PBS359	MB	12/15/24 18:19		Kareem	OK

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133959

Review By	Sarabjit Jaswal	Review On	12/18/2024 3:01:58 AM
Supervise By	Mohan Bera	Supervise On	12/18/2024 3:02:43 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	
Chk Standard	MP83513,MP83514

19	PB165359BS	LCS359	LCS	12/15/24 18:23		Kareem	OK
20	PB165408BL	PBS408	MB	12/15/24 18:27		Kareem	OK
21	PB165408BS	LCS408	LCS	12/15/24 18:31		Kareem	OK
22	PB165373BL	PBS373	MB	12/15/24 18:35		Kareem	OK
23	PB165373BS	LCS373	LCS	12/15/24 18:39		Kareem	OK
24	P5012-17	MBHJP9	SAM	12/15/24 18:43		Kareem	OK
25	P5012-18	MBHJT9	SAM	12/15/24 18:47		Kareem	OK
26	P5012-19	MBHJW0	SAM	12/15/24 18:51		Kareem	OK
27	P5012-20	MBHJW1	SAM	12/15/24 18:55		Kareem	OK
28	P5012-21	MBHJW2	SAM	12/15/24 18:58		Kareem	OK
29	P5012-22	MBHJW3	SAM	12/15/24 19:02		Kareem	OK
30	P4907-01A	MBHHE1A	PS	12/15/24 19:06	PS for Be,Se(0.01ML MP83672,0.07ML MP83673-10ML SAMPLE)	Kareem	OK
31	P5067-01DL	ME28M0	SAM	12/15/24 19:10	2X For Ca,Fe , Still Ca High	Kareem	Dilution
32	P5067-02DL	ME28M1	SAM	12/15/24 19:14	2X For Ca,Fe , Still Ca High	Kareem	Dilution
33	P5067-03DL	ME28M2	SAM	12/15/24 19:17	2X For Ca	Kareem	Confirms
34	CCV030	CCV030	CCV	12/15/24 19:21		Kareem	OK
35	CCB030	CCB030	CCB	12/15/24 19:25		Kareem	OK
36	P5067-04DL	ME28M3	SAM	12/15/24 19:29	2X For Ca	Kareem	Confirms

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 # LB133959

Review By	Sarabjit Jaswal	Review On	12/18/2024 3:01:58 AM
Supervise By	Mohan Bera	Supervise On	12/18/2024 3:02:43 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	
Chk Standard	MP83513,MP83514

37	P5067-05DL	ME28M4	SAM	12/15/24 19:33	2X For Ca,Mg , Still Ca High	Kareem	Dilution
38	P5067-08DL	ME28M7	SAM	12/15/24 19:37	2X For Ca	Kareem	Confirms
39	P5067-12DL	ME28N1	SAM	12/15/24 19:41	2X For Ca	Kareem	Confirms
40	P5067-18DL	ME28N7	SAM	12/15/24 19:44	2X For Ca	Kareem	Confirms
41	P4940-02DL	MBHHS8	SAM	12/15/24 19:48	2X For Ca	Kareem	Confirms
42	P4940-19DL	MBHHX9	SAM	12/15/24 19:52	2X For Ca	Kareem	Confirms
43	P4940-21DL	MBHHY1	SAM	12/15/24 19:56	2X For Ca	Kareem	Confirms
44	P4963-07DL	MBHJ00	SAM	12/15/24 20:00	2X For Ca	Kareem	Confirms
45	P4964-04DL	MBHJ02	SAM	12/15/24 20:04	2X For Ca	Kareem	Confirms
46	P4964-05DL	MBHJ03	SAM	12/15/24 20:07	2X For Ca,Mg , Still Ca High	Kareem	Dilution
47	P4964-06DL	MBHJ04	SAM	12/15/24 20:11	2X For Ca,Mg , Still Ca High	Kareem	Dilution
48	P4964-07DL	MBHJ05	SAM	12/15/24 20:15	2X For Ca	Kareem	Confirms
49	P4981-09DL	MBHJA6	SAM	12/15/24 20:19	2X For Ca	Kareem	Confirms
50	P4981-10DL	MBHJA7	SAM	12/15/24 20:23	2X For Ca	Kareem	Confirms
51	P4981-12DL	MBHJA9	SAM	12/15/24 20:27	2X For Ca	Kareem	Confirms
52	P4981-16DL	MBHJC7	SAM	12/15/24 20:30	2X For Ca	Kareem	Confirms
53	P4981-17DL	MBHJC8	SAM	12/15/24 20:34	2X For Ca	Kareem	Confirms
54	P4981-21DL	MBHJD0	SAM	12/15/24 20:38	2X For Ca	Kareem	Confirms
55	P4983-01DL	MBHJ97	SAM	12/15/24 20:42	2X For Ca	Kareem	Confirms

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 # LB133959

Review By	Sarabjit Jaswal	Review On	12/18/2024 3:01:58 AM
Supervise By	Mohan Bera	Supervise On	12/18/2024 3:02:43 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	
Chk Standard	MP83513,MP83514

56	CCV031	CCV031	CCV	12/15/24 20:46		Kareem	OK
57	CCB031	CCB031	CCB	12/15/24 20:50		Kareem	OK
58	P4983-04DL	MBHJE6	SAM	12/15/24 20:54	Not use	Kareem	Not Ok
59	P4983-05DL	MBHJB6	SAM	12/15/24 20:57	2X For Ca	Kareem	Confirms
60	P4983-07DL	MBHJF9	SAM	12/15/24 21:01	2X For Ca	Kareem	Confirms
61	P4983-13DL	MBHJG3	SAM	12/15/24 21:05	2X For Ca	Kareem	Confirms
62	P4983-14DL	MBHJG4	SAM	12/15/24 21:09	2X For Ca	Kareem	Confirms
63	P4983-15DL	MBHJG5	SAM	12/15/24 21:13	2X For Ca	Kareem	Confirms
64	P4983-16DL	MBHJG6	SAM	12/15/24 21:17	2X For Ca	Kareem	Confirms
65	P4983-17DL	MBHJG7	SAM	12/15/24 21:20	2X For Ca	Kareem	Confirms
66	P4983-18DL	MBHJG8	SAM	12/15/24 21:24	2X For Ca	Kareem	Confirms
67	P4983-19DL	MBHJG9	SAM	12/15/24 21:28	Not Use	Kareem	Not Ok
68	P4983-20DL	MBHJH0	SAM	12/15/24 21:32	Not Use	Kareem	Not Ok
69	P5067-01DL2	ME28M0	SAM	12/15/24 21:36	4X For Ca	Kareem	Confirms
70	P5067-02DL2	ME28M1	SAM	12/15/24 21:40	4X For Ca	Kareem	Confirms
71	P5042-01	MBHKB0	SAM	12/15/24 21:43		Kareem	OK
72	P5042-02	MBHKB0D	DUP	12/15/24 21:47		Kareem	OK
73	P5042-01L	MBHKB0L	SD	12/15/24 21:51		Kareem	OK
74	P5042-03	MBHKB0S	MS	12/15/24 21:55	MS Fail for Sb,Ag,Se(Below RL)	Kareem	OK

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133959

Review By	Sarabjit Jaswal	Review On	12/18/2024 3:01:58 AM
Supervise By	Mohan Bera	Supervise On	12/18/2024 3:02:43 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	
Chk Standard	MP83513,MP83514

75	P4964-04DL2	MBHJ02	SAM	12/15/24 21:59	Not Required	Kareem	Not Ok
76	P4964-06DL2	MBHJ04	SAM	12/15/24 22:03	4X For Ca	Kareem	Confirms
77	P4983-04DL2	MBHJE6	SAM	12/15/24 22:07	4X For Ca	Kareem	Confirms
78	CCV032	CCV032	CCV	12/15/24 22:11		Kareem	OK
79	CCB032	CCB032	CCB	12/15/24 22:14		Kareem	OK
80	P4983-19DL2	MBHJG9	SAM	12/15/24 22:18	4X For Ca	Kareem	Confirms
81	P4983-20DL2	MBHJH0	SAM	12/15/24 22:22	Not Use	Kareem	Not Ok
82	P5039-01	MBHKJ1	SAM	12/15/24 22:27		Kareem	OK
83	P5039-02	MBHKJ2	SAM	12/15/24 22:31		Kareem	OK
84	P5039-03	MBHKJ3	SAM	12/15/24 22:35		Kareem	OK
85	P5039-04	MBHKJ4	SAM	12/15/24 22:39		Kareem	OK
86	P5039-05	MBHKJ5	SAM	12/15/24 22:42		Kareem	OK
87	P5039-06	MBHKJ6	SAM	12/15/24 22:46		Kareem	OK
88	P5039-07	MBHKJ7	SAM	12/15/24 22:50	Ca High	Kareem	Dilution
89	P5039-08	MBHKJ7D	DUP	12/15/24 22:54	Ca High	Kareem	Dilution
90	P5039-07L	MBHKJ7L	SD	12/15/24 22:58	Ca High	Kareem	Dilution
91	P5039-09	MBHKJ7S	MS	12/15/24 23:02	Ca high, MS Fail For Ag,Se(Below RL)	Kareem	Dilution
92	P5039-10	MBHKK5	SAM	12/15/24 23:05		Kareem	OK
93	P5039-11	MBHKK6	SAM	12/15/24 23:09		Kareem	OK

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133959

Review By	Sarabjit Jaswal	Review On	12/18/2024 3:01:58 AM
Supervise By	Mohan Bera	Supervise On	12/18/2024 3:02:43 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	
Chk Standard	MP83513,MP83514

94	P5039-12	MBHKK7	SAM	12/15/24 23:13		Kareem	OK
95	P5039-13	MBHKL5	SAM	12/15/24 23:17		Kareem	OK
96	P5039-14	MBHKL6	SAM	12/15/24 23:21		Kareem	OK
97	P5039-15	MBHKL7	SAM	12/15/24 23:25		Kareem	OK
98	P5039-16	MBHKL8	SAM	12/15/24 23:28	Ca High	Kareem	Dilution
99	P5039-17	MBHKL9	SAM	12/15/24 23:32		Kareem	OK
100	CCV033	CCV033	CCV	12/15/24 23:36		Kareem	OK
101	CCB033	CCB033	CCB	12/15/24 23:40		Kareem	OK
102	P5039-18	MBHKM0	SAM	12/15/24 23:44		Kareem	OK
103	P5039-19	MBHKM1	SAM	12/15/24 23:48		Kareem	OK
104	P5039-20	MBHKM3	SAM	12/15/24 23:51		Kareem	OK
105	P5039-21	MBHKM4	SAM	12/15/24 23:55		Kareem	OK
106	P5034-01	MBHKB4	SAM	12/15/24 23:59		Kareem	OK
107	P5034-02	MBHKB5	SAM	12/16/24 00:03		Kareem	OK
108	P5034-03	MBHKB6	SAM	12/16/24 00:07	Mn High	Kareem	Dilution
109	P5034-04	MBHKB6D	DUP	12/16/24 00:11	Mn High	Kareem	Dilution
110	P5034-03L	MBHKB6L	SD	12/16/24 00:14	Mn High	Kareem	Dilution
111	P5034-05	MBHKB6S	MS	12/16/24 00:18	Mn High , MS Fail For Sb,Cu,Se(BeloW RL),Ag,Zn	Kareem	Dilution
112	P5034-06	MBHKB7	SAM	12/16/24 00:22		Kareem	OK

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133959

Review By	Sarabjit Jaswal	Review On	12/18/2024 3:01:58 AM
Supervise By	Mohan Bera	Supervise On	12/18/2024 3:02:43 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	
Chk Standard	MP83513,MP83514

113	P5034-07	MBHKH4	SAM	12/16/24 00:26		Kareem	OK
114	P5034-08	MBHKH5	SAM	12/16/24 00:30		Kareem	OK
115	P5034-09	MBHKH6	SAM	12/16/24 00:34		Kareem	OK
116	P5034-10	MBHKH7	SAM	12/16/24 00:37		Kareem	OK
117	P5034-11	MBHKH8	SAM	12/16/24 00:41		Kareem	OK
118	P5034-12	MBHKH9	SAM	12/16/24 00:45		Kareem	OK
119	P5034-13	MBHKJ0	SAM	12/16/24 00:49	Ca High	Kareem	Dilution
120	P5034-14	MBHKP0	SAM	12/16/24 00:53		Kareem	OK
121	P5034-15	MBHKP1	SAM	12/16/24 00:57		Kareem	OK
122	CCV034	CCV034	CCV	12/16/24 01:10		Kareem	OK
123	CCB034	CCB034	CCB	12/16/24 01:13		Kareem	OK
124	P5034-16	MBHKP2	SAM	12/16/24 01:17		Kareem	OK
125	P5034-17	MBHKP3	SAM	12/16/24 01:21		Kareem	OK
126	P5034-18	MBHKP4	SAM	12/16/24 01:25		Kareem	OK
127	P5034-19	MBHKP5	SAM	12/16/24 01:29		Kareem	OK
128	P5034-20	MBHKP6	SAM	12/16/24 01:33		Kareem	OK
129	P5034-21	MBHKP8	SAM	12/16/24 01:36		Kareem	OK
130	P5034-22	MBHKP9	SAM	12/16/24 01:40		Kareem	OK
131	P5028-01	MBHK34	SAM	12/16/24 01:44	Ca High	Kareem	Dilution
132	P5028-02	MBHK35	SAM	12/16/24 01:48	Ca High	Kareem	Dilution

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 # LB133959

Review By	Sarabjit Jaswal	Review On	12/18/2024 3:01:58 AM
Supervise By	Mohan Bera	Supervise On	12/18/2024 3:02:43 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	
Chk Standard	MP83513,MP83514

133	P5028-03	MBHK36	SAM	12/16/24 01:52		Kareem	OK
134	P5028-04	MBHK37	SAM	12/16/24 01:56		Kareem	OK
135	P5028-05	MBHK38	SAM	12/16/24 01:59		Kareem	OK
136	P5028-06	MBHK39	SAM	12/16/24 02:03		Kareem	OK
137	P5028-07	MBHK40	SAM	12/16/24 02:07		Kareem	OK
138	P5028-08	MBHK40D	DUP	12/16/24 02:11		Kareem	OK
139	P5028-07L	MBHK40L	SD	12/16/24 02:28		Kareem	OK
140	P5028-09	MBHK40S	MS	12/16/24 02:32	MS Fail for Sb,Ag,Se(Below RL)	Kareem	OK
141	P5028-10	MBHKD2	SAM	12/16/24 02:36		Kareem	OK
142	P5028-11	MBHKD3	SAM	12/16/24 02:40		Kareem	OK
143	P5028-12	MBHKD4	SAM	12/16/24 02:44		Kareem	OK
144	CCV035	CCV035	CCV	12/16/24 03:04		Kareem	OK
145	CCB035	CCB035	CCB	12/16/24 03:08		Kareem	OK
146	P5028-13	MBHKE5	SAM	12/16/24 03:12		Kareem	OK
147	P5028-14	MBHKE6	SAM	12/16/24 03:16		Kareem	OK
148	P5028-15	MBHKE7	SAM	12/16/24 03:20		Kareem	OK
149	P5028-16	MBHKE8	SAM	12/16/24 03:24		Kareem	OK
150	P5028-17	MBHKE9	SAM	12/16/24 03:28		Kareem	OK
151	P5028-18	MBHKF0	SAM	12/16/24 03:32		Kareem	OK

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133959

Review By	Sarabjit Jaswal	Review On	12/18/2024 3:01:58 AM
Supervise By	Mohan Bera	Supervise On	12/18/2024 3:02:43 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	
Chk Standard	MP83513,MP83514

152	P5028-19	MBHKF1	SAM	12/16/24 03:36		Kareem	OK
153	P5028-20	MBHKF2	SAM	12/16/24 03:40		Kareem	OK
154	P5028-21	MBHKG2	SAM	12/16/24 03:43		Kareem	OK
155	P5028-22	MBHKG3	SAM	12/16/24 03:47		Kareem	OK
156	P5037-01	MBHK52	SAM	12/16/24 03:51		Kareem	OK
157	P5037-02	MBHK53	SAM	12/16/24 03:55		Kareem	OK
158	P5037-03	MBHK54	SAM	12/16/24 03:59		Kareem	OK
159	P5037-04	MBHKB8	SAM	12/16/24 04:03		Kareem	OK
160	P5037-05	MBHKB9	SAM	12/16/24 04:07		Kareem	OK
161	P5037-06	MBHKC0	SAM	12/16/24 04:11		Kareem	OK
162	P5037-07	MBHKC0D	DUP	12/16/24 04:15		Kareem	OK
163	P5037-06L	MBHKC0L	SD	12/16/24 04:19		Kareem	OK
164	P5037-08	MBHKC0S	MS	12/16/24 04:23	MS Fail For Ag,Se(Below RL)	Kareem	OK
165	P5037-09	MBHKC1	SAM	12/16/24 04:27		Kareem	OK
166	CCV036	CCV036	CCV	12/16/24 04:31		Kareem	OK
167	CCB036	CCB036	CCB	12/16/24 04:59	Inst. paused for review	Kareem	OK
168	P5037-10	MBHKC2	SAM	12/16/24 05:03		Kareem	OK
169	P5037-11	MBHKC3	SAM	12/16/24 05:07		Kareem	OK
170	P5037-12	MBHK75	SAM	12/16/24 05:11	Ca High	Kareem	Dilution

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 # LB133959

Review By	Sarabjit Jaswal	Review On	12/18/2024 3:01:58 AM
Supervise By	Mohan Bera	Supervise On	12/18/2024 3:02:43 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	
Chk Standard	MP83513,MP83514

171	P5037-13	MBHK76	SAM	12/16/24 05:15		Kareem	OK
172	P5037-14	MBHK77	SAM	12/16/24 05:19		Kareem	OK
173	P5037-15	MBHK79	SAM	12/16/24 05:23		Kareem	OK
174	P5037-16	MBHK80	SAM	12/16/24 05:27		Kareem	OK
175	P5037-17	MBHK81	SAM	12/16/24 05:31		Kareem	OK
176	P5037-18	MBHK82	SAM	12/16/24 05:35		Kareem	OK
177	P5037-19	MBHKG6	SAM	12/16/24 05:38		Kareem	OK
178	P5037-20	MBHKG7	SAM	12/16/24 05:42	Ca High	Kareem	Dilution
179	P5033-01	MBHK93	SAM	12/16/24 05:46		Kareem	OK
180	P5033-02	MBHK94	SAM	12/16/24 05:50		Kareem	OK
181	P5033-03	MBHK95	SAM	12/16/24 05:54		Kareem	OK
182	P5033-04	MBHK96	SAM	12/16/24 05:58	Ca High	Kareem	Dilution
183	P5033-05	MBHK97	SAM	12/16/24 06:02		Kareem	OK
184	P5033-06	MBHK97D	DUP	12/16/24 06:05		Kareem	OK
185	P5033-05L	MBHK97L	SD	12/16/24 06:09		Kareem	OK
186	P5033-07	MBHK97S	MS	12/16/24 06:13	MS Fail For Ag,Se(Below RL),Zn	Kareem	OK
187	CCV037	CCV037	CCV	12/16/24 06:24		Kareem	OK
188	CCB037	CCB037	CCB	12/16/24 06:27		Kareem	OK
189	P5033-08	MBHK98	SAM	12/16/24 06:31		Kareem	OK

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133959

Review By	Sarabjit Jaswal	Review On	12/18/2024 3:01:58 AM
Supervise By	Mohan Bera	Supervise On	12/18/2024 3:02:43 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	
Chk Standard	MP83513,MP83514

190	P5033-09	MBHK99	SAM	12/16/24 06:35		Kareem	OK
191	P5033-10	MBHKA0	SAM	12/16/24 06:39		Kareem	OK
192	P5033-11	MBHKA1	SAM	12/16/24 06:43		Kareem	OK
193	P5033-12	MBHKA2	SAM	12/16/24 06:47	Ca High	Kareem	Dilution
194	P5033-13	MBHKA3	SAM	12/16/24 06:50	Ca High	Kareem	Dilution
195	P5033-14	MBHKG8	SAM	12/16/24 06:54		Kareem	OK
196	P5033-15	MBHKG9	SAM	12/16/24 06:58		Kareem	OK
197	P5033-16	MBHKH0	SAM	12/16/24 07:02		Kareem	OK
198	P5033-17	MBHKH1	SAM	12/16/24 07:06		Kareem	OK
199	P5033-18	MBHKH2	SAM	12/16/24 07:10		Kareem	OK
200	P5033-19	MBHKH3	SAM	12/16/24 07:13		Kareem	OK
201	P5033-20	MBHKP7	SAM	12/16/24 07:17		Kareem	OK
202	CCV038	CCV038	CCV	12/16/24 07:21		Kareem	OK
203	CCB038	CCB038	CCB	12/16/24 07:25		Kareem	OK

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134069

Review By	Sarabjit Jaswal	Review On	12/25/2024 11:40:50 PM
Supervise By	Kareem Khairalla	Supervise On	12/27/2024 4:23:37 PM

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	
Chk Standard	MP83513,MP83514

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	12/23/24 13:14		Kareem	OK
2	S1	S01	CAL2	12/23/24 13:18		Kareem	OK
3	S2	S02	CAL3	12/23/24 13:23		Kareem	OK
4	S3	S03	CAL4	12/23/24 13:26		Kareem	OK
5	S4	S04	CAL5	12/23/24 13:30		Kareem	OK
6	S5	S05	CAL6	12/23/24 13:34		Kareem	OK
7	S6	S06	CAL7	12/23/24 13:38		Kareem	OK
8	ICV001	ICV001	ICV	12/23/24 13:56	Inst. paused for calibration review	Kareem	OK
9	ICB001	ICB001	ICB	12/23/24 14:00		Kareem	OK
10	ICSA001	ICSA001	ICSA	12/23/24 14:04		Kareem	OK
11	ICSAB001	ICSAB001	ICSAB	12/23/24 14:08		Kareem	OK
12	CCV001	CCV001	CCV	12/23/24 14:12		Kareem	OK
13	CCB001	CCB001	CCB	12/23/24 14:16		Kareem	OK
14	P5033-04DL	MBHK96	SAM	12/23/24 14:28	2x for Ca	Kareem	Confirms
15	P5033-12DL	MBHKA2	SAM	12/23/24 14:32	2x for Ca	Kareem	Confirms
16	P5033-13DL	MBHKA3	SAM	12/23/24 14:36	2x for Ca	Kareem	Confirms
17	P5034-03DL	MBHKB6	SAM	12/23/24 14:40	2x for Mn	Kareem	Confirms
18	P5034-04DL	MBHKB6D	DUP	12/23/24 14:44	2x for Mn	Kareem	Confirms

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 # LB134069

Review By	Sarabjit Jaswal	Review On	12/25/2024 11:40:50 PM
Supervise By	Kareem Khairalla	Supervise On	12/27/2024 4:23:37 PM

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	
Chk Standard	MP83513,MP83514

19	P5034-03LDL	MBHKB6L	SD	12/23/24 14:48	10x for Mn	Kareem	Confirms
20	P5034-05DL	MBHKB6S	MS	12/23/24 14:52	2x for Mn	Kareem	Confirms
21	P5034-13DL	MBHKJ0	SAM	12/23/24 14:56	5x for Ca	Kareem	Confirms
22	P5233-03DL	ME28R7	SAM	12/23/24 15:00	2x for Ca	Kareem	Confirms
23	P5233-04DL	ME28R8	SAM	12/23/24 15:04	2x for Ca	Kareem	Confirms
24	P5233-06DL	ME28S0	SAM	12/23/24 15:08	2x for Ca	Kareem	Confirms
25	P5233-17DL	ME28T1	SAM	12/23/24 15:11	5x for Fe	Kareem	Confirms
26	P5233-19DL	ME28T3	SAM	12/23/24 15:15	2x for Fe	Kareem	Confirms
27	P5037-12DL	MBHK75	SAM	12/23/24 15:29	2x for Ca	Kareem	Confirms
28	P5037-20DL	MBHKG7	SAM	12/23/24 15:33	2x for Ca	Kareem	Confirms
29	P5028-01DL	MBHK34	SAM	12/23/24 15:37	2x for Ca	Kareem	Confirms
30	P5028-02DL	MBHK35	SAM	12/23/24 15:41	2x for Ca	Kareem	Confirms
31	P5009-21DL	MBHJZ3	SAM	12/23/24 15:45	2x for Ca	Kareem	Confirms
32	P4984-08DL	MBHJT5	SAM	12/23/24 15:49	5x for Ca	Kareem	Confirms
33	P4983-20DL	MBHJH0	SAM	12/23/24 15:53	5x for Ca	Kareem	Confirms
34	CCV002	CCV002	CCV	12/23/24 15:57		Kareem	OK
35	CCB002	CCB002	CCB	12/23/24 16:10	Inst. paused for review	Kareem	OK
36	P5039-07DL	MBHKJ7	SAM	12/23/24 16:14	2x for Ca	Kareem	Confirms
37	P5039-08DL	MBHKJ7D	DUP	12/23/24 16:18	2x for Ca	Kareem	Confirms
38	P5039-07LDL	MBHKJ7L	SD	12/23/24 16:21	10x for Ca	Kareem	Confirms

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 # LB134069

Review By	Sarabjit Jaswal	Review On	12/25/2024 11:40:50 PM
Supervise By	Kareem Khairalla	Supervise On	12/27/2024 4:23:37 PM

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	
Chk Standard	MP83513,MP83514

39	P5039-09DL	MBHKJ7S	MS	12/23/24 16:26	2x for Ca	Kareem	Confirms
40	P5039-16DL	MBHKL8	SAM	12/23/24 16:29	2x for Ca	Kareem	Confirms
41	P5180-01DL	MYCYW9	SAM	12/23/24 16:33	4x for Mn	Kareem	Confirms
42	P5180-03DL	MYCYX1	SAM	12/23/24 16:37	4x for Mn	Kareem	Confirms
43	P5180-04DL	MYCYX2	SAM	12/23/24 16:41	5x for Mn	Kareem	Confirms
44	P5180-05DL	MYCYX3	SAM	12/23/24 16:45	8x for Mn	Kareem	Confirms
45	P5180-06DL	MYCYX4	SAM	12/23/24 16:49	8x for Mn	Kareem	Confirms
46	P5180-07DL	MYCYX5	SAM	12/23/24 16:53	8x for Mn	Kareem	Confirms
47	P5180-08DL	MYCYX6	SAM	12/23/24 16:57	8x for Mn	Kareem	Confirms
48	P5180-09DL	MYCYX7	SAM	12/23/24 17:01	8x for Mn	Kareem	Confirms
49	P5180-10DL	MYCYX8	SAM	12/23/24 17:05	10x for Mn	Kareem	Confirms
50	P5181-10DL	MYCYY8	SAM	12/23/24 17:09	4x for Mn	Kareem	Confirms
51	P5184-20DL	MYCZF8	SAM	12/23/24 17:13		Kareem	OK
52	P5184-21DL	MYCZF8D	DUP	12/23/24 17:17		Kareem	OK
53	P5184-20LDL	MYCZF8L	SD	12/23/24 17:21		Kareem	OK
54	P5184-22DL	MYCZF8S	MS	12/23/24 17:25	MS fail for Cr (862.76 ppb), Zn (1114.67 ppb), Ag(Below RL)	Kareem	OK
55	P5154-09DL	ME28P7	SAM	12/23/24 17:29	5x for Ca	Kareem	Confirms
56	CCV003	CCV003	CCV	12/23/24 17:33		Kareem	OK
57	CCB003	CCB003	CCB	12/23/24 17:37		Kareem	OK

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134069

Review By	Sarabjit Jaswal	Review On	12/25/2024 11:40:50 PM
Supervise By	Kareem Khairalla	Supervise On	12/27/2024 4:23:37 PM

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	
Chk Standard	MP83513,MP83514

58	P4978-05DL	MBHJ51	SAM	12/23/24 17:41	5x for Ca	Kareem	Confirms
59	P4978-06DL	MBHJ52	SAM	12/23/24 17:45	5x for Ca	Kareem	Confirms
60	P4978-07DL	MBHJ53	SAM	12/23/24 17:49	5x for Ca	Kareem	Confirms
61	P4979-14DL	MBHJA2	SAM	12/23/24 17:53	2x for Ca	Kareem	Confirms
62	P4979-16DL	MBHJA4	SAM	12/23/24 17:57	5x for Ca	Kareem	Confirms
63	P4980-03DL	MBHJ72	SAM	12/23/24 18:01	5x for Ca	Kareem	Confirms
64	P4980-10DL	MBHJ86	SAM	12/23/24 18:05	5x for Ca	Kareem	Confirms
65	P4980-16DL	MBHJ90	SAM	12/23/24 18:09	5x for Ca	Kareem	Confirms
66	P4980-17DL	MBHJB0	SAM	12/23/24 18:13	5x for Ca	Kareem	Confirms
67	P4982-05DL	MBHJ37	SAM	12/23/24 18:17	5x for Ca	Kareem	Confirms
68	P4982-15DL	MBHJE9	SAM	12/23/24 18:21	5x for Ca	Kareem	Confirms
69	P4982-16DL	MBHJF0	SAM	12/23/24 18:24	5x for Ca	Kareem	Confirms
70	P5008-02DL	MBHJJ1	SAM	12/23/24 18:28	5x for Ca	Kareem	Confirms
71	P5008-03DL	MBHJJ3	SAM	12/23/24 18:32	5x for Ca	Kareem	Confirms
72	P5008-04DL	MBHJJ4	SAM	12/23/24 18:36	5x for Ca	Kareem	Confirms
73	P5008-05DL	MBHJJ5	SAM	12/23/24 18:40	5x for Ca	Kareem	Confirms
74	P5008-06DL	MBHJJ6	SAM	12/23/24 18:44	5x for Ca	Kareem	Confirms
75	P5183-20ADL	MYCZD8A	PS	12/23/24 18:48	PS For Cr(0.016ml m5658),Cu(-0.038ml m5697),Tl(0.05ml mp83745) - 10ml Sample	Kareem	OK

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134069

Review By	Sarabjit Jaswal	Review On	12/25/2024 11:40:50 PM
Supervise By	Kareem Khairalla	Supervise On	12/27/2024 4:23:37 PM

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	
Chk Standard	MP83513,MP83514

76	P5009-04A	MBHJQ3A	PS	12/23/24 18:52	PS for Cu(0.0032ml m5697),Se(0.013ml mp83726),Tl(0.05ml mp83745), Zn(0.014ml m5819)- 10ml Sample	Kareem	OK
77	P5028-07A	MBHK40A	PS	12/23/24 18:56	PS for Se(0.07ml mp83723)- 10ml Sample	Kareem	OK
78	CCV004	CCV004	CCV	12/23/24 19:00		Kareem	OK
79	CCB004	CCB004	CCB	12/23/24 19:03		Kareem	OK
80	P5033-05A	MBHK97A	PS	12/23/24 19:07	PS for Se(0.07ml mp83723),Zn(0.037ml m5819) - 10ml Sample	Kareem	OK
81	P5034-03A	MBHKB6A	PS	12/23/24 19:11	PS For Cu(0.0053ml m5697),Se(0.07ml mp83723),Zn(0.013ml m5819) - 10ml Sample	Kareem	OK
82	P5037-06A	MBHKC0A	PS	12/23/24 19:15	PS for Se(0.07ml mp83723)- 10ml Sample	Kareem	OK
83	P5039-07A	MBHKJ7A	PS	12/23/24 19:19	PS for Se(0.07ml mp83723)- 10ml Sample	Kareem	OK
84	P5042-01A	MBHKB0A	PS	12/23/24 19:23	PS for Se(0.07ml mp83723)- 10ml Sample	Kareem	OK
85	P5090-01	MBHM14	SAM	12/23/24 19:27		Kareem	OK
86	P5090-02	MBHM15	SAM	12/23/24 19:31		Kareem	OK
87	P5090-03	MBHM16	SAM	12/23/24 19:34		Kareem	OK
88	P5090-04	MBHM17	SAM	12/23/24 19:38		Kareem	OK
89	P5090-05	MBHM18	SAM	12/23/24 19:42		Kareem	OK
90	P5090-06	MBHM19	SAM	12/23/24 19:46		Kareem	OK

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134069

Review By	Sarabjit Jaswal	Review On	12/25/2024 11:40:50 PM
Supervise By	Kareem Khairalla	Supervise On	12/27/2024 4:23:37 PM

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	
Chk Standard	MP83513,MP83514

91	P5090-07	MBHM20	SAM	12/23/24 19:50		Kareem	OK
92	P5090-08	MBHM21	SAM	12/23/24 19:54		Kareem	OK
93	P5090-09	MBHM22	SAM	12/23/24 19:58		Kareem	OK
94	P5090-10	MBHM23	SAM	12/23/24 20:01		Kareem	OK
95	P5090-11	MBHM24	SAM	12/23/24 20:05		Kareem	OK
96	P5090-12	MBHM25	SAM	12/23/24 20:09		Kareem	OK
97	P5090-13	MBHM25D	DUP	12/23/24 20:13		Kareem	OK
98	P5090-12L	MBHM25L	SD	12/23/24 20:17		Kareem	OK
99	P5090-14	MBHM25S	MS	12/23/24 20:21	MS fail for As (243.86 ppb) , Ba (1459.46 ppb), Cu (427.24 ppb), Se (177 ppb), Zn (1503.85 ppb) & Tl (Below RL)	Kareem	OK
100	CCV005	CCV005	CCV	12/23/24 20:28		Kareem	OK
101	CCB005	CCB005	CCB	12/23/24 20:32		Kareem	OK
102	P5090-15	MBHM26	SAM	12/23/24 20:36		Kareem	OK
103	P5090-16	MBHM27	SAM	12/23/24 20:40		Kareem	OK
104	P5090-17	MBHM28	SAM	12/23/24 20:44		Kareem	OK
105	P5090-18	MBHM36	SAM	12/23/24 20:48		Kareem	OK
106	P5090-19	MBHM37	SAM	12/23/24 20:51		Kareem	OK
107	PB165739BL	PBS739	MB	12/23/24 20:55		Kareem	OK
108	PB165739BS	LCS739	LCS	12/23/24 20:59		Kareem	OK

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134069

Review By	Sarabjit Jaswal	Review On	12/25/2024 11:40:50 PM
Supervise By	Kareem Khairalla	Supervise On	12/27/2024 4:23:37 PM

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	
Chk Standard	MP83513,MP83514

109	P5063-01	MBHL28	SAM	12/23/24 21:03		Kareem	OK
110	P5063-02	MBHL29	SAM	12/23/24 21:07		Kareem	OK
111	P5063-03	MBHL30	SAM	12/23/24 21:11		Kareem	OK
112	P5063-04	MBHL31	SAM	12/23/24 21:15		Kareem	OK
113	P5063-05	MBHL32	SAM	12/23/24 21:19		Kareem	OK
114	P5063-06	MBHL33	SAM	12/23/24 21:23		Kareem	OK
115	P5063-07	MBHL34	SAM	12/23/24 21:26		Kareem	OK
116	P5063-08	MBHL34D	DUP	12/23/24 21:30		Kareem	OK
117	P5063-07L	MBHL34L	SD	12/23/24 21:34		Kareem	OK
118	P5063-09	MBHL34S	MS	12/23/24 21:38	MS fail for Cu (179.98 ppb), Zn (381.63 ppb) & Sb,Se,Ag (Below RL)	Kareem	OK
119	P5063-10	MBHL77	SAM	12/23/24 21:42		Kareem	OK
120	P5063-11	MBHL78	SAM	12/23/24 21:46		Kareem	OK
121	P5063-12	MBHL79	SAM	12/23/24 21:49		Kareem	OK
122	CCV006	CCV006	CCV	12/23/24 21:53		Kareem	OK
123	CCB006	CCB006	CCB	12/23/24 21:57		Kareem	OK
124	P5071-01	MBHKX5	SAM	12/23/24 22:01		Kareem	OK
125	P5071-02	MBHKX5D	DUP	12/23/24 22:05		Kareem	OK
126	P5071-01L	MBHKX5L	SD	12/23/24 22:09		Kareem	OK

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134069

Review By	Sarabjit Jaswal	Review On	12/25/2024 11:40:50 PM
Supervise By	Kareem Khairalla	Supervise On	12/27/2024 4:23:37 PM

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	
Chk Standard	MP83513,MP83514

127	P5071-03	MBHKX5S	MS	12/23/24 22:13	MS fail for Cu (86.93 ppb), Se (40.18 ppb), Zn (565.58 ppb) & Sb,Ag,Tl (Below RL)	Kareem	OK
128	PB165507BL	PBS507	MB	12/23/24 22:16		Kareem	OK
129	PB165507BS	LCS507	LCS	12/23/24 22:20		Kareem	OK
130	P5084-01	MBHLR0	SAM	12/23/24 22:24		Kareem	OK
131	P5084-02	MBHLW6	SAM	12/23/24 22:28		Kareem	OK
132	P5084-03	MBHLW7	SAM	12/23/24 22:32		Kareem	OK
133	P5084-04	MBHLW8	SAM	12/23/24 22:36		Kareem	OK
134	P5084-05	MBHLW9	SAM	12/23/24 22:40	Ca high	Kareem	Dilution
135	P5084-06	MBHLX0	SAM	12/23/24 22:43	Ca high	Kareem	Dilution
136	P5084-07	MBHLX1	SAM	12/23/24 22:47	Ca high	Kareem	Dilution
137	P5084-08	MBHLX2	SAM	12/23/24 22:51	Ca high	Kareem	Dilution
138	P5084-09	MBHLX3	SAM	12/23/24 22:55		Kareem	OK
139	P5084-10	MBHLX4	SAM	12/23/24 22:59		Kareem	OK
140	P5084-11	MBHLX5	SAM	12/23/24 23:03		Kareem	OK
141	P5084-12	MBHLX6	SAM	12/23/24 23:06		Kareem	OK
142	P5084-13	MBHLX7	SAM	12/23/24 23:10		Kareem	OK
143	P5084-14	MBHLX7D	DUP	12/23/24 23:14		Kareem	OK
144	CCV007	CCV007	CCV	12/23/24 23:18		Kareem	OK
145	CCB007	CCB007	CCB	12/23/24 23:22		Kareem	OK

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134069

Review By	Sarabjit Jaswal	Review On	12/25/2024 11:40:50 PM
Supervise By	Kareem Khairalla	Supervise On	12/27/2024 4:23:37 PM

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	
Chk Standard	MP83513,MP83514

146	P5084-13L	MBHLX7L	SD	12/23/24 23:26		Kareem	OK
147	P5084-15	MBHLX7S	MS	12/23/24 23:30	MS fail for Se (70.78 ppb) & Sb,Ag,Tl (Below RL)	Kareem	OK
148	P5084-16	MBHLX8	SAM	12/23/24 23:33		Kareem	OK
149	P5084-17	MBHLX9	SAM	12/23/24 23:37		Kareem	OK
150	P5084-18	MBHM32	SAM	12/23/24 23:41	Ca high	Kareem	Dilution
151	P5084-19	MBHM33	SAM	12/23/24 23:45		Kareem	OK
152	PB165713BL	PBS713	MB	12/23/24 23:49		Kareem	OK
153	PB165713BS	LCS713	LCS	12/23/24 23:53		Kareem	OK
154	P5091-01	MBHLR4	SAM	12/23/24 23:57	Ca high	Kareem	Dilution
155	P5091-02	MBHLR5	SAM	12/24/24	Ca high	Kareem	Dilution
156	P5091-03	MBHLR6	SAM	12/24/24 00:04	Ca high	Kareem	Dilution
157	P5091-04	MBHLR7	SAM	12/24/24 00:08		Kareem	OK
158	P5091-05	MBHLR8	SAM	12/24/24 00:12		Kareem	OK
159	P5091-06	MBHLR9	SAM	12/24/24 00:16		Kareem	OK
160	P5091-07	MBHLS0	SAM	12/24/24 00:20		Kareem	OK
161	P5091-08	MBHLS0D	DUP	12/24/24 00:23		Kareem	OK
162	P5091-07L	MBHLS0L	SD	12/24/24 00:27		Kareem	OK
163	P5091-09	MBHLS0S	MS	12/24/24 00:31	MS fail for Se (100.55 ppb) & Ag,Tl (Below RL)	Kareem	OK
164	P5091-10	MBHLS1	SAM	12/24/24 00:35		Kareem	OK

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134069

Review By	Sarabjit Jaswal	Review On	12/25/2024 11:40:50 PM
Supervise By	Kareem Khairalla	Supervise On	12/27/2024 4:23:37 PM

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	
Chk Standard	MP83513,MP83514

165	P5091-11	MBHLS2	SAM	12/24/24 00:39	Ca high	Kareem	Dilution
166	CCV008	CCV008	CCV	12/24/24 00:42		Kareem	OK
167	CCB008	CCB008	CCB	12/24/24 00:46		Kareem	OK
168	P5091-12	MBHLS3	SAM	12/24/24 00:50	Ca high	Kareem	Dilution
169	P5091-13	MBHLS4	SAM	12/24/24 00:54	Ca high	Kareem	Dilution
170	P5091-14	MBHLS5	SAM	12/24/24 00:58		Kareem	OK
171	P5091-15	MBHLS6	SAM	12/24/24 01:02		Kareem	OK
172	P5091-16	MBHLS7	SAM	12/24/24 01:06		Kareem	OK
173	P5091-17	MBHLS8	SAM	12/24/24 01:10		Kareem	OK
174	P5091-18	MBHLS9	SAM	12/24/24 01:13	Ca high	Kareem	Dilution
175	P5091-19	MBHLT0	SAM	12/24/24 01:17	Ca high	Kareem	Dilution
176	P5091-20	MBHLT1	SAM	12/24/24 01:21	Ca high	Kareem	Dilution
177	P5091-21	MBHLT2	SAM	12/24/24 01:25		Kareem	OK
178	P5091-22	MBHLT3	SAM	12/24/24 01:29		Kareem	OK
179	PB165740BL	PBS740	MB	12/24/24 01:33		Kareem	OK
180	PB165740BS	LCS740	LCS	12/24/24 01:37		Kareem	OK
181	P5015-02	MBHK13	SAM	12/24/24 01:41		Kareem	OK
182	P5033-21	MBHKQ4	SAM	12/24/24 01:45		Kareem	OK
183	P5059-20	MBHLD7	SAM	12/24/24 01:49		Kareem	OK
184	P5059-21	MBHLD8	SAM	12/24/24 01:53		Kareem	OK

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134069

Review By	Sarabjit Jaswal	Review On	12/25/2024 11:40:50 PM
Supervise By	Kareem Khairalla	Supervise On	12/27/2024 4:23:37 PM

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	
Chk Standard	MP83513,MP83514

185	P5092-20	MBHM40	SAM	12/24/24 01:57		Kareem	OK
186	P5132-21	MBHMN5	SAM	12/24/24 02:01		Kareem	OK
187	P5200-15	MBHNJ3	SAM	12/24/24 02:05		Kareem	OK
188	CCV009	CCV009	CCV	12/24/24 02:09		Kareem	OK
189	CCB009	CCB009	CCB	12/24/24 02:12		Kareem	OK
190	P5212-09	MBHNJ4	SAM	12/24/24 02:16		Kareem	OK
191	PB165669BL	PBW669	MB	12/24/24 02:20		Kareem	OK
192	PB165669BS	LCS669	LCS	12/24/24 02:24		Kareem	OK
193	P5086-01	MBHLM6	SAM	12/24/24 02:28		Kareem	OK
194	P5086-02	MBHLM7	SAM	12/24/24 02:32		Kareem	OK
195	P5086-03	MBHLM8	SAM	12/24/24 02:36		Kareem	OK
196	P5086-04	MBHLM9	SAM	12/24/24 02:40		Kareem	OK
197	P5086-05	MBHLN0	SAM	12/24/24 02:44		Kareem	OK
198	P5086-06	MBHLN1	SAM	12/24/24 02:48		Kareem	OK
199	P5086-07	MBHLN2	SAM	12/24/24 02:51		Kareem	OK
200	P5086-08	MBHLN2D	DUP	12/24/24 02:55		Kareem	OK
201	P5086-07L	MBHLN2L	SD	12/24/24 02:59		Kareem	OK
202	P5086-09	MBHLN2S	MS	12/24/24 03:03	MS fail for Be (8.0 ppb), Cu (169.15 ppb), Se (80.54 ppb), Zn (524.51 ppb) & Sb,Ag,Tl (Below RL)	Kareem	OK

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134069

Review By	Sarabjit Jaswal	Review On	12/25/2024 11:40:50 PM
Supervise By	Kareem Khairalla	Supervise On	12/27/2024 4:23:37 PM

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	
Chk Standard	MP83513,MP83514

203	P5086-10	MBHLN3	SAM	12/24/24 03:07		Kareem	OK
204	P5086-11	MBHLN4	SAM	12/24/24 03:11		Kareem	OK
205	P5086-12	MBHLN5	SAM	12/24/24 03:14		Kareem	OK
206	P5086-13	MBHLN6	SAM	12/24/24 03:18		Kareem	OK
207	P5086-14	MBHLN7	SAM	12/24/24 03:22	Ca high	Kareem	Dilution
208	P5086-15	MBHLN8	SAM	12/24/24 03:26	Ca high	Kareem	Dilution
209	P5086-16	MBHLN9	SAM	12/24/24 03:30	Ca high	Kareem	Dilution
210	CCV010	CCV010	CCV	12/24/24 03:34		Kareem	OK
211	CCB010	CCB010	CCB	12/24/24 03:37		Kareem	OK
212	P5086-17	MBHLP7	SAM	12/24/24 03:42		Kareem	OK
213	P5086-18	MBHLP8	SAM	12/24/24 03:45		Kareem	OK
214	P5086-19	MBHLP9	SAM	12/24/24 03:49		Kareem	OK
215	P5086-20	MBHLQ0	SAM	12/24/24 03:53		Kareem	OK
216	P5086-21	MBHLQ1	SAM	12/24/24 03:57		Kareem	OK
217	P5086-22	MBHLQ2	SAM	12/24/24 04:01		Kareem	OK
218	PB165725BL	PBS725	MB	12/24/24 04:04		Kareem	OK
219	PB165725BS	LCS725	LCS	12/24/24 04:08		Kareem	OK
220	P5089-01	MBHLZ4	SAM	12/24/24 04:12		Kareem	OK
221	P5089-02	MBHLZ4D	DUP	12/24/24 04:16		Kareem	OK
222	P5089-01L	MBHLZ4L	SD	12/24/24 04:20		Kareem	OK

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134069

Review By	Sarabjit Jaswal	Review On	12/25/2024 11:40:50 PM
Supervise By	Kareem Khairalla	Supervise On	12/27/2024 4:23:37 PM

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	
Chk Standard	MP83513,MP83514

223	P5089-03	MBHLZ4S	MS	12/24/24 04:24	MS fail for As (201.58 ppb), Cu (299.10 ppb),Se (72.64 ppb), Zn (952.81 ppb) & Sb,Ag,Tl (Below RL)	Kareem	OK
224	P5089-04	MBHLZ5	SAM	12/24/24 04:28		Kareem	OK
225	P5089-05	MBHLZ6	SAM	12/24/24 04:32		Kareem	OK
226	P5089-06	MBHLZ7	SAM	12/24/24 04:35		Kareem	OK
227	P5089-07	MBHLZ8	SAM	12/24/24 04:39		Kareem	OK
228	P5089-08	MBHLZ9	SAM	12/24/24 04:43		Kareem	OK
229	P5089-09	MBHM00	SAM	12/24/24 04:47		Kareem	OK
230	P5089-10	MBHM01	SAM	12/24/24 04:51		Kareem	OK
231	P5089-11	MBHM02	SAM	12/24/24 04:55		Kareem	OK
232	CCV011	CCV011	CCV	12/24/24 04:58		Kareem	OK
233	CCB011	CCB011	CCB	12/24/24 05:02		Kareem	OK
234	P5089-12	MBHM03	SAM	12/24/24 05:06		Kareem	OK
235	P5089-13	MBHM04	SAM	12/24/24 05:10		Kareem	OK
236	P5089-14	MBHM05	SAM	12/24/24 05:14		Kareem	OK
237	P5089-15	MBHM06	SAM	12/24/24 05:17		Kareem	OK
238	P5089-16	MBHM07	SAM	12/24/24 05:21		Kareem	OK
239	P5089-17	MBHM08	SAM	12/24/24 05:25		Kareem	OK
240	P5089-18	MBHM09	SAM	12/24/24 05:29		Kareem	OK

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134069

Review By	Sarabjit Jaswal	Review On	12/25/2024 11:40:50 PM
Supervise By	Kareem Khairalla	Supervise On	12/27/2024 4:23:37 PM

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	
Chk Standard	MP83513,MP83514

241	P5089-19	MBHM10	SAM	12/24/24 05:33		Kareem	OK
242	P5089-20	MBHM11	SAM	12/24/24 05:37		Kareem	OK
243	P5089-21	MBHM12	SAM	12/24/24 05:40		Kareem	OK
244	P5089-22	MBHM13	SAM	12/24/24 05:44		Kareem	OK
245	PB165727BL	PBS727	MB	12/24/24 05:48		Kareem	OK
246	PB165727BS	LCS727	LCS	12/24/24 05:52		Kareem	OK
247	P5169-01	MJNLH1	SAM	12/24/24 05:56		Kareem	OK
248	P5169-02	MJNLH2	SAM	12/24/24 06:00		Kareem	OK
249	P5169-03	MJNLH5	SAM	12/24/24 06:04		Kareem	OK
250	P5169-04	MJNLH4	SAM	12/24/24 06:08	NOT USE	Kareem	Not Ok
251	P5169-05	MJNLH4D	DUP	12/24/24 06:12	NOT USE	Kareem	Not Ok
252	P5169-04L	MJNLH4L	SD	12/24/24 06:15	NOT USE	Kareem	Not Ok
253	CCV012	CCV012	CCV	12/24/24 06:19		Kareem	OK
254	CCB012	CCB012	CCB	12/24/24 06:23		Kareem	OK
255	P5169-06	MJNLH4S	MS	12/24/24 06:27	NOT USE	Kareem	Not Ok
256	PB165673BL	PBW673	MB	12/24/24 06:35	NOT USE	Kareem	Not Ok
257	PB165673BS	LCS673	LCS	12/24/24 06:39	NOT USE	Kareem	Not Ok
258	P5081-01	MBHLG0	SAM	12/24/24 06:43		Kareem	OK
259	P5081-02	MBHLG1	SAM	12/24/24 06:47	Ca high	Kareem	Dilution
260	P5081-03	MBHLG2	SAM	12/24/24 06:51	Ca high	Kareem	Dilution

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 # LB134069

Review By	Sarabjit Jaswal	Review On	12/25/2024 11:40:50 PM
Supervise By	Kareem Khairalla	Supervise On	12/27/2024 4:23:37 PM

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	
Chk Standard	MP83513,MP83514

261	P5081-04	MBHLG3	SAM	12/24/24 06:54		Kareem	OK
262	P5081-05	MBHLG4	SAM	12/24/24 06:59		Kareem	OK
263	P5081-06	MBHLG4D	DUP	12/24/24 07:02		Kareem	OK
264	P5081-05L	MBHLG4L	SD	12/24/24 07:06		Kareem	OK
265	P5081-07	MBHLG4S	MS	12/24/24 07:10	MS fail for Be (7.17 ppb) , Cu (275.06 ppb), Se (59.69 ppb), V (178.80 ppb), Zn (1028.26) & Sb,Ag,Tl (Below RL)	Kareem	OK
266	P5081-08	MBHLG5	SAM	12/24/24 07:14		Kareem	OK
267	P5081-09	MBHLG6	SAM	12/24/24 07:18		Kareem	OK
268	P5081-10	MBHLJ1	SAM	12/24/24 07:22		Kareem	OK
269	P5081-11	MBHLJ2	SAM	12/24/24 07:25		Kareem	OK
270	P5081-12	MBHLJ3	SAM	12/24/24 07:29		Kareem	OK
271	P5081-13	MBHLJ4	SAM	12/24/24 07:33		Kareem	OK
272	P5081-14	MBHLJ5	SAM	12/24/24 07:37		Kareem	OK
273	P5081-15	MBHLJ6	SAM	12/24/24 07:41		Kareem	OK
274	CCV013	CCV013	CCV	12/24/24 07:45		Kareem	OK
275	CCB013	CCB013	CCB	12/24/24 07:48		Kareem	OK
276	P5081-16	MBHLJ7	SAM	12/24/24 07:52		Kareem	OK
277	P5081-17	MBHLK5	SAM	12/24/24 07:56		Kareem	OK
278	P5081-18	MBHLK6	SAM	12/24/24 08:00		Kareem	OK

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134069

Review By	Sarabjit Jaswal	Review On	12/25/2024 11:40:50 PM
Supervise By	Kareem Khairalla	Supervise On	12/27/2024 4:23:37 PM

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	
Chk Standard	MP83513,MP83514

279	P5081-19	MBHLK7	SAM	12/24/24 08:04		Kareem	OK
280	P5081-20	MBHLK8	SAM	12/24/24 08:08		Kareem	OK
281	P5081-21	MBHLK9	SAM	12/24/24 08:11		Kareem	OK
282	P5081-22	MBHLL0	SAM	12/24/24 08:15		Kareem	OK
283	PB165694BL	PBS694	MB	12/24/24 08:19		Kareem	OK
284	PB165694BS	LCS694	LCS	12/24/24 08:23		Kareem	OK
285	P5083-01	MBHLJ8	SAM	12/24/24 08:27		Kareem	OK
286	P5083-02	MBHLJ9	SAM	12/24/24 08:31		Kareem	OK
287	P5083-03	MBHLK0	SAM	12/24/24 08:35		Kareem	OK
288	P5083-04	MBHLK0D	DUP	12/24/24 08:39		Kareem	OK
289	P5083-03L	MBHLK0L	SD	12/24/24 08:42		Kareem	OK
290	P5083-05	MBHLK0S	MS	12/24/24 08:46	MS fail for Se (74.03 ppb), Zn (183 ppb) & Ag,Tl (Below RL)	Kareem	OK
291	P5083-06	MBHLK1	SAM	12/24/24 08:50		Kareem	OK
292	P5083-07	MBHLK2	SAM	12/24/24 08:54		Kareem	OK
293	P5083-08	MBHLK3	SAM	12/24/24 08:58		Kareem	OK
294	P5083-09	MBHLK4	SAM	12/24/24 09:02		Kareem	OK
295	CCV014	CCV014	CCV	12/24/24 09:05		Kareem	OK
296	CCB014	CCB014	CCB	12/24/24 09:09		Kareem	OK
297	P5083-10	MBHLL9	SAM	12/24/24 09:13		Kareem	OK

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134069

Review By	Sarabjit Jaswal	Review On	12/25/2024 11:40:50 PM
Supervise By	Kareem Khairalla	Supervise On	12/27/2024 4:23:37 PM

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	
Chk Standard	MP83513,MP83514

298	P5083-11	MBHLM0	SAM	12/24/24 09:17		Kareem	OK
299	P5083-12	MBHLM1	SAM	12/24/24 09:21		Kareem	OK
300	P5083-13	MBHLM2	SAM	12/24/24 09:25		Kareem	OK
301	P5083-14	MBHLM3	SAM	12/24/24 09:28	Ca high	Kareem	Dilution
302	P5083-15	MBHLM4	SAM	12/24/24 09:32	Ca high	Kareem	Dilution
303	P5083-16	MBHLM5	SAM	12/24/24 09:36	Ca high	Kareem	Dilution
304	P5083-17	MBHLQ4	SAM	12/24/24 09:40		Kareem	OK
305	P5083-18	MBHLQ5	SAM	12/24/24 09:44		Kareem	OK
306	P5083-19	MBHLQ6	SAM	12/24/24 09:48		Kareem	OK
307	P5083-20	MBHLQ7	SAM	12/24/24 09:52		Kareem	OK
308	P5083-21	MBHLQ8	SAM	12/24/24 09:55		Kareem	OK
309	P5083-22	MBHLQ9	SAM	12/24/24 09:59		Kareem	OK
310	PB165632BL	PBS632	MB	12/24/24 10:03	NOT USE	Kareem	Not Ok
311	PB165632BS	LCS632	LCS	12/24/24 10:07	NOT USE	Kareem	Not Ok
312	CCV015	CCV015	CCV	12/24/24 10:11		Kareem	OK
313	CCB015	CCB015	CCB	12/24/24 10:15		Kareem	OK



ORIGIN ID:BUFA (716) 853-1220
EMMANUEL GARCIAVILLAR
WSP USA INC.
50 LAKEFRONT BLVD

BUFFALO, NY 14202
UNITED STATES US

SHIP DATE: 26NOV24
ACTWGT: 40.00 LB
CAD: 108450067/INET4760
DIMS: 19x14x12 IN

BILL SENDER

TO MOHAMMAD AHMED
ALLIANCE TECHNICAL GROUP LLC
284 SHEFFIELD STREET

MOUNTAINSIDE NJ 07092
(908) 789-8900
INV: 03.02.02.EXP
PO: 31800192.009A

REF: US000650

DEPT: EMMANUEL GARCIA

58CJ8/39D3/C6C4

FedEx Express

FedEx
MPS# 0263 7702 6139 4027

WED – 27 NOV AA
PRIORITY OVERNIGHT

NF KBCA

07092
NJ – US EWR

EXP 10/25

#6372226 11/26 58CJ8/39D3/C6C4

FedEx Ship Manager - Print Your Label(s)

11/26/24, 4:28 PM

R.M

2.70

10:05

11.27.24

Alliance TECHNICAL GROUP 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Login Summary Report

Order ID :	P5033	Order Date :	11/27/2024 10:05:00 AM	Project Mgr :	Deepak
Client :	USEPA CLP SMO	Project :	51879	Report Type :	USEPA CLP
Contact :	Anita Kapadia	Receive Date :	11/27/2024 10:05:00 AM	EDD Type :	EPA CLP
Date Sign Off :	11/27/2024 1:33:13 PM				

Sample ID	Client ID	Matrix	Sampling Date	Test	Test Group	Method	TAT Days	Fax Due Date	HC Due Date
P5033-01	MBHK93	Solid	11/20/2024						
				Metals CLP Full		SFAM_AES	15	01/01/2025	01/01/2025
				Percent Solids		Chemtech -SOP	15	01/01/2025	01/01/2025
P5033-02	MBHK94	Solid	11/20/2024						
				Metals CLP Full		SFAM_AES	15	01/01/2025	01/01/2025
				Percent Solids		Chemtech -SOP	15	01/01/2025	01/01/2025
P5033-03	MBHK95	Solid	11/20/2024						
				Metals CLP Full		SFAM_AES	15	01/01/2025	01/01/2025
				Percent Solids		Chemtech -SOP	15	01/01/2025	01/01/2025
P5033-04	MBHK96	Solid	11/20/2024						
				Metals CLP Full		SFAM_AES	15	01/01/2025	01/01/2025
				Percent Solids		Chemtech -SOP	15	01/01/2025	01/01/2025
P5033-05	MBHK97	Solid	11/20/2024						
				Metals CLP Full		SFAM_AES	15	01/01/2025	01/01/2025
				Percent Solids		Chemtech -SOP	15	01/01/2025	01/01/2025
P5033-06	MBHK97D	Solid	11/20/2024						
				Metals CLP Full		SFAM_AES	15	01/01/2025	01/01/2025
				Percent Solids		Chemtech -SOP	15	01/01/2025	01/01/2025
P5033-07	MBHK97S	Solid	11/20/2024						
				Metals CLP Full		SFAM_AES	15	01/01/2025	01/01/2025
				Percent Solids		Chemtech -SOP	15	01/01/2025	01/01/2025
P5033-08	MBHK98	Solid	11/20/2024						
				Metals CLP Full		SFAM_AES	15	01/01/2025	01/01/2025
				Percent Solids		Chemtech -SOP	15	01/01/2025	01/01/2025
P5033-09	MBHK99	Solid	11/20/2024						
				Metals CLP Full		SFAM_AES	15	01/01/2025	01/01/2025
				Percent Solids		Chemtech -SOP	15	01/01/2025	01/01/2025
P5033-10	MBHKA0	Solid	11/20/2024						
				Metals CLP Full		SFAM_AES	15	01/01/2025	01/01/2025
				Percent Solids		Chemtech -SOP	15	01/01/2025	01/01/2025

P5033-11	MBHKA1	Solid	11/20/2024						
				Metals CLP Full		SFAM_AES	15	01/01/2025	01/01/2025
				Percent Solids		Chemtech -SOP	15	01/01/2025	01/01/2025
P5033-12	MBHKA2	Solid	11/20/2024						
				Metals CLP Full		SFAM_AES	15	01/01/2025	01/01/2025
				Percent Solids		Chemtech -SOP	15	01/01/2025	01/01/2025
P5033-13	MBHKA3	Solid	11/20/2024						
				Metals CLP Full		SFAM_AES	15	01/01/2025	01/01/2025
				Percent Solids		Chemtech -SOP	15	01/01/2025	01/01/2025
P5033-14	MBHKG8	Solid	11/20/2024		FD				
				Metals CLP Full		SFAM_AES	15	01/01/2025	01/01/2025
				Percent Solids		Chemtech -SOP	15	01/01/2025	01/01/2025
P5033-15	MBHKG9	Solid	11/21/2024						
				Metals CLP Full		SFAM_AES	15	01/01/2025	01/01/2025
				Percent Solids		Chemtech -SOP	15	01/01/2025	01/01/2025
P5033-16	MBHKH0	Solid	11/21/2024						
				Metals CLP Full		SFAM_AES	15	01/01/2025	01/01/2025
				Percent Solids		Chemtech -SOP	15	01/01/2025	01/01/2025
P5033-17	MBHKH1	Solid	11/21/2024						
				Metals CLP Full		SFAM_AES	15	01/01/2025	01/01/2025
				Percent Solids		Chemtech -SOP	15	01/01/2025	01/01/2025
P5033-18	MBHKH2	Solid	11/21/2024						
				Metals CLP Full		SFAM_AES	15	01/01/2025	01/01/2025
				Percent Solids		Chemtech -SOP	15	01/01/2025	01/01/2025
P5033-19	MBHKH3	Solid	11/21/2024						
				Metals CLP Full		SFAM_AES	15	01/01/2025	01/01/2025
				Percent Solids		Chemtech -SOP	15	01/01/2025	01/01/2025
P5033-20	MBHKP7	Solid	11/21/2024		FD				
				Metals CLP Full		SFAM_AES	15	01/01/2025	01/01/2025
				Percent Solids		Chemtech -SOP	15	01/01/2025	01/01/2025
P5033-21	MBHKQ4	Water	11/26/2024		RB				
				Metals CLP Full		SFAM_AES	15	01/01/2025	01/01/2025

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB165373 **WorkList ID :** 185967 **Department :** Digestion **Date :** 12-04-2024 11:17:36

1116

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5033-01	MBHK93	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C22	11/20/2024	SFAM_AES
P5033-02	MBHK94	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C22	11/20/2024	SFAM_AES
P5033-03	MBHK95	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C22	11/20/2024	SFAM_AES
P5033-04	MBHK96	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C22	11/20/2024	SFAM_AES
P5033-05	MBHK97	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C22	11/20/2024	SFAM_AES
P5033-06	MBHK97D	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C22	11/20/2024	SFAM_AES
P5033-07	MBHK97S	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C22	11/20/2024	SFAM_AES
P5033-08	MBHK98	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C22	11/20/2024	SFAM_AES
P5033-09	MBHK99	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C22	11/20/2024	SFAM_AES
P5033-10	MBHKA0	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C22	11/20/2024	SFAM_AES
P5033-11	MBHKA1	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C22	11/20/2024	SFAM_AES
P5033-12	MBHKA2	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C22	11/20/2024	SFAM_AES
P5033-13	MBHKA3	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C22	11/20/2024	SFAM_AES
P5033-14	MBHKG8	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C22	11/20/2024	SFAM_AES
P5033-15	MBHKG9	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C22	11/20/2024	SFAM_AES
P5033-16	MBHKH0	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C22	11/21/2024	SFAM_AES
P5033-17	MBHKH1	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C22	11/21/2024	SFAM_AES
P5033-18	MBHKH2	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C22	11/21/2024	SFAM_AES
P5033-19	MBHKH3	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C22	11/21/2024	SFAM_AES
P5033-20	MBHKP7	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C22	11/21/2024	SFAM_AES

Date/Time 12/04/24 11:40

Raw Sample Received by: JSP Cmet dig

Raw Sample Relinquished by: CF

Date/Time 12/04/24 12:40

Raw Sample Received by: CF

Raw Sample Relinquished by: JSP Cmet dig

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB165669 **WorkList ID :** 186373 **Department :** Digestion **Date :** 12-16-2024 12:17:33

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5015-02	MBHK13	Water	Metals CLP Full	1:1 HNO3 to pH < 2	USEP01	C13	11/25/2024	SFAM_AES
P5033-21	MBHKQ4	Water	Metals CLP Full	1:1 HNO3 to pH < 2	USEP01	C22	11/26/2024	SFAM_AES
P5059-20	MBHLD7	Water	Metals CLP Full	1:1 HNO3 to pH < 2	USEP01	C33	12/02/2024	SFAM_AES
P5059-21	MBHLD8	Water	Metals CLP Full	1:1 HNO3 to pH < 2	USEP01	C33	12/02/2024	SFAM_AES
P5092-20	MBHM40	Water	Metals CLP Full	1:1 HNO3 to pH < 2	USEP01	C43	12/03/2024	SFAM_AES
P5132-21	MBHMN5	Water	Metals CLP Full	1:1 HNO3 to pH < 2	USEP01	C42	12/04/2024	SFAM_AES
P5200-15	MBHNJ3	Water	Metals CLP Full	1:1 HNO3 to pH < 2	USEP01	C13	12/06/2024	SFAM_AES
P5212-09	MBHNJ4	Water	Metals CLP Full	1:1 HNO3 to pH < 2	USEP01	C12	12/06/2024	SFAM_AES

Date/Time 12/16/24 12:40
Raw Sample Received by: SKD. met digestion
Raw Sample Relinquished by: [signature]

Date/Time 12/16/24 13:40
Raw Sample Received by: [signature]
Raw Sample Relinquished by: SKD. met. digestion