SDG COVER PAGE

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

Lab Code: ACE Case No.: 51879 MA No.: SDG No.: MBHN53

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MBHN53	P5206-01	X			
MBHN82	P5206-02	X			
MBHN82D	P5206-03	X			
MBHN82S	P5206-04	X			
MBHN83	P5206-05	X			
MBHN84	P5206-06	X			
MBHN85	P5206-07	X			
MBHN86	P5206-08	X			
MBHN87	P5206-09	X			
MBHN88	P5206-10	X			
MBHNA1	P5206-11	X			
MBHNA2	P5206-12	X			
MBHNA3	P5206-13	X			
MBHNA4	P5206-14	X			
MBHNA5	P5206-15	X			
MBHNA6	P5206-16	X			
MBHNA7	P5206-17	X			
MBHNJ9	P5206-18	X			
MBHNK0	P5206-19	X			

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

Signature: Name:

Date: Title:

68HERH20D0011

SDG # MBHN53

USEPA CLP COC (LAB COPY)
DateShipped: 12/6/2024
CarrierName: FedEx
AirbillNo: 7705 5866 0393

CHAIN OF CUSTODY RECORD

Case #: 51879
Cooler #: 3

No: 2-120624-122520-0056
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
P178-SB-08-Z30-36	MBHN53	Soil/		ICP-AES(35)	5162 (Wet ice < 6 C) (1)	P178-SB-08	11/21/2024 13:55	
P171-SB-13-Z00-02	MBHN82	Soil/		ICP-AES(35)	4311 (Wet ice < 6 C) (1)	P171-SB-13	11/20/2024 13:40	•
P171-SB-13-Z02-06	MBHN83	Soil/		ICP-AES(35)	4312 (Wet ice < 6 C) (1)	P171-SB-13	11/20/2024 13:40	
P171-SB-13-Z06-12	MBHN84	Soil/		ICP-AES(35)	4313 (Wet ice < 6 C) (1)	P171-SB-13	11/20/2024 13:40	
P171-SB-13-Z12-18	MBHN85	Soil/		ICP-AES(35)	4314 (Wet ice < 6 C) (1)	P171-SB-13	11/20/2024 13:40	
P171-SB-13-Z18-24	MBHN86	Soil/		ICP-AES(35)	4315 (Wet ice < 6 C) (1)	P171-SB-13	11/20/2024 13:40	
P171-SB-13-Z24-30	MBHN87	Soil/		ICP-AES(35)	4316 (Wet ice < 6 C) (1)	P171-SB-13	11/20/2024 13:40	
P171-SB-13-Z30-36	MBHN88	Soil/		ICP-AES(35)	4317 (Wet ice < 6 C) (1)	P171-SB-13	11/20/2024 13:40	
P171-SB-12-Z00-02	MBHNA1	Soil/		ICP-AES(35)	4274 (Wet ice < 6 C) (1)	P171-SB-12	11/20/2024 13:35	
P171-SB-12-Z02-06	MBHNA2	Soil/		ICP-AES(35)	4275 (Wet ice < 6 C) (1)	P171-SB-12	11/20/2024 13:35	

Sample(s) to be used for Lab QC: P171-SB-13-Z00-02 Tag 4311 - Special Instructions: Samples MBHN51 and MBHN82 are MS/MSDs. Samples MBHN21, MBHN26, MBHN42, MBHN43, MBHN44, MBHN45, MBHN84, MBHN85, MBHN86, MBHN87 and MBHN88 have limited sample mass.	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: ICP-AES=CLP Routine - SFAM01.1/LSASD SOP C-109 Metals	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
1 Cooler	[signature] USP	12/06/24 1705	[signature]	12/7/24	1.5° IR Gun #1
				9:55	Temp blank present
			NA [signature] 12/09/24		Custody Seal [illegible]

68HERH20D0011

SDG # MBHN53

USEPA CLP COC (LAB COPY)

DateShipped: 12/6/2024
CarrierName: FedEx
AirbillNo: 7705 5866 0393

CHAIN OF CUSTODY RECORD

Case #: 51879
Cooler #: 3

No: 2-120624-122520-0056
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
P171-SB-12-Z06-12	MBHNA3	Soil/		ICP-AES(35)	4276 (Wet ice < 6 C) (1)	P171-SB-12	11/20/2024 13:35	
P171-SB-12-Z12-18	MBHNA4	Soil/		ICP-AES(35)	4277 (Wet ice < 6 C) (1)	P171-SB-12	11/20/2024 13:35	
P171-SB-12-Z18-24	MBHNA5	Soil/		ICP-AES(35)	4278 (Wet ice < 6 C) (1)	P171-SB-12	11/20/2024 13:35	
P171-SB-12-Z24-30	MBHNA6	Soil/		ICP-AES(35)	4279 (Wet ice < 6 C) (1)	P171-SB-12	11/20/2024 13:35	
P171-SB-12-Z30-36	MBHNA7	Soil/		ICP-AES(35)	4310 (Wet ice < 6 C) (1)	P171-SB-12	11/20/2024 13:35	
P171-SB-03-Z30-36-FD	MBHNJ9	Soil/		ICP-AES(35)	5588 (Wet ice < 6 C) (1)	P171-SB-03	11/20/2024 11:15	
P171-SB-12-Z00-02-FD	MBHNK0	Soil/		ICP-AES(35)	5589 (Wet ice < 6 C) (1)	P171-SB-12	11/20/2024 13:35	
					N/A 12/06/24			

Special Instructions: Samples MBHN51 and MBHN82 are MS/MSDs. Samples MBHN21, MBHN26, MBHN42, MBHN43, MBHN44, MBHN45, MBHN84, MBHN85, MBHN86, MBHN87 and MBHN88 have limited sample mass.

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

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

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
1 Cooler	WSP	12/06/24 1705		12/7/24 9:55	1.5° IR gun / TEM blank
			N/A 12/06/24		Cust Sub

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 1 of 1
Received By (Print Name) Gioconda Peña		Log-in Date **12/7/2024**
Received By (Signature)		
Case Number 51879	SDG No. MBHN53	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.	770558660393 1
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	1.5 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	12/07/2024
12. Time Received	09:55

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MBHN53	N/A	5162	P5206-01	Intact
2	MBHN82	N/A	4311	P5206-02	Intact
3	MBHN82D	N/A	4311	P5206-03	Intact
4	MBHN82S	N/A	4311	P5206-04	Intact
5	MBHN83	N/A	4312	P5206-05	Intact
6	MBHN84	N/A	4313	P5206-06	Intact
7	MBHN85	N/A	4314	P5206-07	Intact
8	MBHN86	N/A	4315	P5206-08	Intact
9	MBHN87	N/A	4316	P5206-09	Intact
10	MBHN88	N/A	4317	P5206-10	Intact
11	MBHNA1	N/A	4274	P5206-11	Intact
12	MBHNA2	N/A	4275	P5206-12	Intact
13	MBHNA3	N/A	4276	P5206-13	Intact
14	MBHNA4	N/A	4277	P5206-14	Intact
15	MBHNA5	N/A	4278	P5206-15	Intact
16	MBHNA6	N/A	4279	P5206-16	Intact
17	MBHNA7	N/A	4310	P5206-17	Intact
18	MBHNJ9	N/A	5588	P5206-18	Intact
19	MBHNK0	N/A	5589	P5206-19	Intact
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By	Logbook No. N/A
Date 12/9/24	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.	**MBHN53**
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	29	✓	
9. Instrument raw data by instrument in analysis order	30	567	✓	
Other Data				
10. Standard and Reagent Preparation Logs	568	705	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	706	707	✓	
12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	708	723	✓	
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)	724	724	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	725	726	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	727	727	✓	
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 # MBHN53
CASE # 51879
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # P5202

A. Number of Samples and Date of Receipt

17 Soil sample were delivered to the laboratory intact on 12/07/2024.

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: 1.5^{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 MBHN53 For Arsenic:

If C = 0.0957128 ppm
Vf = 100 ml
W = 1.33 g
S = 0.964(96.4/100)
DF = 1

$$\text{Concentration (mg/kg)} = 0.0957128 \times \frac{100}{1.33 \times 0.964} \times 1$$

$$= 7.46519 \text{ mg/kg}$$

= 7.5 mg/kg (Reported Result with Signification

H. QA/ QC

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

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

284 Sheffield Street
Mountainside, NJ 07092

I certify that the data package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature_____ Name: Nimisha Pandya

Date _____ Title: Document Control Officer

PERCENT SOLID

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

OVENTEMP IN Celsius(°C): 107
Time IN: 13:20
In Date: 12/11/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 07:33
Out Date: 12/12/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133879

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
P5206-01	MBHN53	1	1.15	8.50	9.65	9.34	96.4	
P5206-02	MBHN82	2	1.15	8.35	9.5	7.07	70.9	
P5206-03	MBHN82D	3	1.15	8.35	9.5	7.07	70.9	
P5206-04	MBHN82S	4	1.15	8.35	9.5	7.07	70.9	
P5206-05	MBHN83	5	1.19	8.42	9.61	7.42	74.0	
P5206-06	MBHN84	6	1.18	8.72	9.9	8.21	80.6	
P5206-07	MBHN85	7	1.16	8.53	9.69	8.21	82.6	
P5206-08	MBHN86	8	1.15	8.82	9.97	8.67	85.3	
P5206-09	MBHN87	9	1.17	8.40	9.57	8.38	85.8	
P5206-10	MBHN88	10	1.13	8.39	9.52	8.74	90.7	
P5206-11	MBHNA1	11	1.15	8.53	9.68	7.65	76.2	
P5206-12	MBHNA2	12	1.17	8.60	9.77	7.92	78.5	
P5206-13	MBHNA3	13	1.19	8.55	9.74	8.27	82.8	
P5206-14	MBHNA4	14	1.15	8.63	9.78	8.58	86.1	
P5206-15	MBHNA5	15	1.14	8.43	9.57	8.66	89.2	
P5206-16	MBHNA6	16	1.18	8.62	9.8	9.26	93.7	
P5206-17	MBHNA7	17	1.17	8.34	9.51	8.93	93.0	
P5206-18	MBHNJ9	18	1.16	8.63	9.79	8.96	90.4	
P5206-19	MBHNK0	19	1.12	8.70	9.82	7.76	76.3	

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

WORKLIST(Hardcopy Internal Chain)

VB 133879

WorkList Name : %1-p5206 **WorkList ID :** 186219 **Department :** Wet-Chemistry **Date :** 12-11-2024 09:14:56

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5206-01	MBHN53	Solid	Percent Solids	Cool 4 deg C	USEP01	C43	11/21/2024	Chemtech -SO
P5206-02	MBHN82	Solid	Percent Solids	Cool 4 deg C	USEP01	C43	11/20/2024	Chemtech -SO
P5206-03	MBHN82D	Solid	Percent Solids	Cool 4 deg C	USEP01	C43	11/20/2024	Chemtech -SO
P5206-04	MBHN82S	Solid	Percent Solids	Cool 4 deg C	USEP01	C43	11/20/2024	Chemtech -SO
P5206-05	MBHN83	Solid	Percent Solids	Cool 4 deg C	USEP01	C43	11/20/2024	Chemtech -SO
P5206-06	MBHN84	Solid	Percent Solids	Cool 4 deg C	USEP01	C43	11/20/2024	Chemtech -SO
P5206-07	MBHN85	Solid	Percent Solids	Cool 4 deg C	USEP01	C43	11/20/2024	Chemtech -SO
P5206-08	MBHN86	Solid	Percent Solids	Cool 4 deg C	USEP01	C43	11/20/2024	Chemtech -SO
P5206-09	MBHN87	Solid	Percent Solids	Cool 4 deg C	USEP01	C43	11/20/2024	Chemtech -SO
P5206-10	MBHN88	Solid	Percent Solids	Cool 4 deg C	USEP01	C43	11/20/2024	Chemtech -SO
P5206-11	MBHNA1	Solid	Percent Solids	Cool 4 deg C	USEP01	C43	11/20/2024	Chemtech -SO
P5206-12	MBHNA2	Solid	Percent Solids	Cool 4 deg C	USEP01	C43	11/20/2024	Chemtech -SO
P5206-13	MBHNA3	Solid	Percent Solids	Cool 4 deg C	USEP01	C43	11/20/2024	Chemtech -SO
P5206-14	MBHNA4	Solid	Percent Solids	Cool 4 deg C	USEP01	C43	11/20/2024	Chemtech -SO
P5206-15	MBHNA5	Solid	Percent Solids	Cool 4 deg C	USEP01	C43	11/20/2024	Chemtech -SO
P5206-16	MBHNA6	Solid	Percent Solids	Cool 4 deg C	USEP01	C43	11/20/2024	Chemtech -SO
P5206-17	MBHNA7	Solid	Percent Solids	Cool 4 deg C	USEP01	C43	11/20/2024	Chemtech -SO
P5206-18	MBHNJ9	Solid	Percent Solids	Cool 4 deg C	USEP01	C43	11/20/2024	Chemtech -SO
P5206-19	MBHNK0	Solid	Percent Solids	Cool 4 deg C	USEP01	C43	11/20/2024	Chemtech -SO

12

Date/Time 12-11-24 12:45

Raw Sample Received by: TB WBC

Raw Sample Relinquished by: RM SM

Date/Time 12-11-24 13:25

Raw Sample Received by: RM SM

Raw Sample Relinquished by: TB WBC

EPA SAMPLE NO.

MBHN53

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.: MBHN53

Matrix: SOIL Lab Sample ID: P5206-01

% Solids: 96.4 Date Received: 12/07/2024

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	1700		01/12/2025	0748
7440-36-0	Antimony	4.7	U*	01/12/2025	0748
7440-38-2	Arsenic	7.5	*	01/12/2025	0748
7440-39-3	Barium	59		01/12/2025	0748
7440-41-7	Beryllium	0.26	J	01/12/2025	0748
7440-43-9	Cadmium	0.25	J	01/12/2025	0748
7440-70-2	Calcium	150000	D	01/12/2025	1912
7440-47-3	Chromium	3.6		01/12/2025	0748
7440-48-4	Cobalt	2.9	J	01/12/2025	0748
7440-50-8	Copper	12	*	01/12/2025	0748
7439-89-6	Iron	7900		01/12/2025	0748
7439-92-1	Lead	10		01/12/2025	0748
7439-95-4	Magnesium	67000	D	01/12/2025	1912
7439-96-5	Manganese	780		01/12/2025	0748
7440-02-0	Nickel	6.2		01/12/2025	0748
7440-09-7	Potassium	210	J	01/12/2025	0748
7782-49-2	Selenium	2.7	U*	01/12/2025	0748
7440-22-4	Silver	0.78	U*	01/12/2025	0748
7440-23-5	Sodium	100	J	01/12/2025	0748
7440-28-0	Thallium	2.0	U	01/12/2025	0748
7440-62-2	Vanadium	6.6		01/12/2025	0748
7440-66-6	Zinc	24	*	01/12/2025	0748

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

Comments:

EPA SAMPLE NO.

MBHN82

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.: MBHN53

Matrix: SOIL Lab Sample ID: P5206-02

% Solids: 70.9 Date Received: 12/07/2024

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	6000		01/12/2025	0752
7440-36-0	Antimony	6.9	U*	01/12/2025	0752
7440-38-2	Arsenic	11	*	01/12/2025	0752
7440-39-3	Barium	160		01/12/2025	0752
7440-41-7	Beryllium	0.54	J	01/12/2025	0752
7440-43-9	Cadmium	1.6		01/12/2025	0752
7440-70-2	Calcium	7700		01/12/2025	0752
7440-47-3	Chromium	20		01/12/2025	0752
7440-48-4	Cobalt	10		01/12/2025	0752
7440-50-8	Copper	60	*	01/12/2025	0752
7439-89-6	Iron	17000		01/12/2025	0752
7439-92-1	Lead	400		01/12/2025	0752
7439-95-4	Magnesium	2900		01/12/2025	0752
7439-96-5	Manganese	950		01/12/2025	0752
7440-02-0	Nickel	26		01/12/2025	0752
7440-09-7	Potassium	910		01/12/2025	0752
7782-49-2	Selenium	3.7	J*	01/12/2025	0752
7440-22-4	Silver	1.2	U*	01/12/2025	0752
7440-23-5	Sodium	580	U	01/12/2025	0752
7440-28-0	Thallium	2.9	U	01/12/2025	0752
7440-62-2	Vanadium	18		01/12/2025	0752
7440-66-6	Zinc	380	*	01/12/2025	0752

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

Comments:

EPA SAMPLE NO.

MBHN83

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.: MBHN53

Matrix: SOIL Lab Sample ID: P5206-05

% Solids: 74 Date Received: 12/07/2024

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	5200		01/12/2025	0816
7440-36-0	Antimony	7.7	U*	01/12/2025	0816
7440-38-2	Arsenic	10	*	01/12/2025	0816
7440-39-3	Barium	160		01/12/2025	0816
7440-41-7	Beryllium	0.45	J	01/12/2025	0816
7440-43-9	Cadmium	1.3		01/12/2025	0816
7440-70-2	Calcium	5700		01/12/2025	0816
7440-47-3	Chromium	17		01/12/2025	0816
7440-48-4	Cobalt	8.1		01/12/2025	0816
7440-50-8	Copper	56	*	01/12/2025	0816
7439-89-6	Iron	14000		01/12/2025	0816
7439-92-1	Lead	330		01/12/2025	0816
7439-95-4	Magnesium	2100		01/12/2025	0816
7439-96-5	Manganese	790		01/12/2025	0816
7440-02-0	Nickel	20		01/12/2025	0816
7440-09-7	Potassium	700		01/12/2025	0816
7782-49-2	Selenium	3.2	J*	01/12/2025	0816
7440-22-4	Silver	1.3	U*	01/12/2025	0816
7440-23-5	Sodium	640	U	01/12/2025	0816
7440-28-0	Thallium	3.2	U	01/12/2025	0816
7440-62-2	Vanadium	15		01/12/2025	0816
7440-66-6	Zinc	350	*	01/12/2025	0816

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

Comments:

EPA SAMPLE NO.

MBHN84

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.: MBHN53

Matrix: SOIL Lab Sample ID: P5206-06

% Solids: 80.6 Date Received: 12/07/2024

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	5800		01/12/2025	0820
7440-36-0	Antimony	6.8	U*	01/12/2025	0820
7440-38-2	Arsenic	12	*	01/12/2025	0820
7440-39-3	Barium	160		01/12/2025	0820
7440-41-7	Beryllium	0.51	J	01/12/2025	0820
7440-43-9	Cadmium	1.5		01/12/2025	0820
7440-70-2	Calcium	12000		01/12/2025	0820
7440-47-3	Chromium	17		01/12/2025	0820
7440-48-4	Cobalt	9.2		01/12/2025	0820
7440-50-8	Copper	1400	*	01/12/2025	0820
7439-89-6	Iron	15000		01/12/2025	0820
7439-92-1	Lead	1100		01/12/2025	0820
7439-95-4	Magnesium	2800		01/12/2025	0820
7439-96-5	Manganese	980		01/12/2025	0820
7440-02-0	Nickel	23		01/12/2025	0820
7440-09-7	Potassium	820		01/12/2025	0820
7782-49-2	Selenium	3.0	J*	01/12/2025	0820
7440-22-4	Silver	1.1	U*	01/12/2025	0820
7440-23-5	Sodium	570	U	01/12/2025	0820
7440-28-0	Thallium	2.9	U	01/12/2025	0820
7440-62-2	Vanadium	16		01/12/2025	0820
7440-66-6	Zinc	360	*	01/12/2025	0820

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

Comments:

EPA SAMPLE NO.

MBHN85

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.: MBHN53

Matrix: SOIL Lab Sample ID: P5206-07

% Solids: 82.6 Date Received: 12/07/2024

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		01/12/2025	0824
7440-36-0	Antimony	5.7	U*	01/12/2025	0824
7440-38-2	Arsenic	7.8	*	01/12/2025	0824
7440-39-3	Barium	59		01/12/2025	0824
7440-41-7	Beryllium	0.34	J	01/12/2025	0824
7440-43-9	Cadmium	0.78		01/12/2025	0824
7440-70-2	Calcium	43000		01/12/2025	0824
7440-47-3	Chromium	10		01/12/2025	0824
7440-48-4	Cobalt	8.5		01/12/2025	0824
7440-50-8	Copper	59	*	01/12/2025	0824
7439-89-6	Iron	14000		01/12/2025	0824
7439-92-1	Lead	86		01/12/2025	0824
7439-95-4	Magnesium	7000		01/12/2025	0824
7439-96-5	Manganese	830		01/12/2025	0824
7440-02-0	Nickel	18		01/12/2025	0824
7440-09-7	Potassium	880		01/12/2025	0824
7782-49-2	Selenium	2.0	J*	01/12/2025	0824
7440-22-4	Silver	0.95	U*	01/12/2025	0824
7440-23-5	Sodium	64	J	01/12/2025	0824
7440-28-0	Thallium	2.4	U	01/12/2025	0824
7440-62-2	Vanadium	12		01/12/2025	0824
7440-66-6	Zinc	110	*	01/12/2025	0824

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

Comments:

EPA SAMPLE NO.

MBHN86

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.: MBHN53

Matrix: SOIL Lab Sample ID: P5206-08

% Solids: 85.3 Date Received: 12/07/2024

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	4300		01/12/2025	0828
7440-36-0	Antimony	5.4	U*	01/12/2025	0828
7440-38-2	Arsenic	7.5	*	01/12/2025	0828
7440-39-3	Barium	46		01/12/2025	0828
7440-41-7	Beryllium	0.30	J	01/12/2025	0828
7440-43-9	Cadmium	0.64		01/12/2025	0828
7440-70-2	Calcium	52000		01/12/2025	0828
7440-47-3	Chromium	8.7		01/12/2025	0828
7440-48-4	Cobalt	7.5		01/12/2025	0828
7440-50-8	Copper	34	*	01/12/2025	0828
7439-89-6	Iron	13000		01/12/2025	0828
7439-92-1	Lead	62		01/12/2025	0828
7439-95-4	Magnesium	6800		01/12/2025	0828
7439-96-5	Manganese	660		01/12/2025	0828
7440-02-0	Nickel	14		01/12/2025	0828
7440-09-7	Potassium	810		01/12/2025	0828
7782-49-2	Selenium	1.9	J*	01/12/2025	0828
7440-22-4	Silver	0.90	U*	01/12/2025	0828
7440-23-5	Sodium	82	J	01/12/2025	0828
7440-28-0	Thallium	2.3	U	01/12/2025	0828
7440-62-2	Vanadium	9.9		01/12/2025	0828
7440-66-6	Zinc	100	*	01/12/2025	0828

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

Comments:

EPA SAMPLE NO.

MBHN87

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.: MBHN53

Matrix: SOIL Lab Sample ID: P5206-09

% Solids: 85.8 Date Received: 12/07/2024

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	4600		01/12/2025	0832
7440-36-0	Antimony	5.6	U*	01/12/2025	0832
7440-38-2	Arsenic	7.3	*	01/12/2025	0832
7440-39-3	Barium	47		01/12/2025	0832
7440-41-7	Beryllium	0.32	J	01/12/2025	0832
7440-43-9	Cadmium	0.63		01/12/2025	0832
7440-70-2	Calcium	50000		01/12/2025	0832
7440-47-3	Chromium	8.9		01/12/2025	0832
7440-48-4	Cobalt	8.4		01/12/2025	0832
7440-50-8	Copper	40	*	01/12/2025	0832
7439-89-6	Iron	14000		01/12/2025	0832
7439-92-1	Lead	65		01/12/2025	0832
7439-95-4	Magnesium	8100		01/12/2025	0832
7439-96-5	Manganese	720		01/12/2025	0832
7440-02-0	Nickel	15		01/12/2025	0832
7440-09-7	Potassium	900		01/12/2025	0832
7782-49-2	Selenium	2.2	J*	01/12/2025	0832
7440-22-4	Silver	0.93	U*	01/12/2025	0832
7440-23-5	Sodium	91	J	01/12/2025	0832
7440-28-0	Thallium	2.3	U	01/12/2025	0832
7440-62-2	Vanadium	11		01/12/2025	0832
7440-66-6	Zinc	87	*	01/12/2025	0832

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

Comments:

EPA SAMPLE NO.

MBHN88

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.: MBHN53

Matrix: SOIL Lab Sample ID: P5206-10

% Solids: 90.7 Date Received: 12/07/2024

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		01/12/2025	0836
7440-36-0	Antimony	6.0	U*	01/12/2025	0836
7440-38-2	Arsenic	6.4	*	01/12/2025	0836
7440-39-3	Barium	31		01/12/2025	0836
7440-41-7	Beryllium	0.26	J	01/12/2025	0836
7440-43-9	Cadmium	0.63		01/12/2025	0836
7440-70-2	Calcium	95000	D	01/12/2025	1916
7440-47-3	Chromium	8.0		01/12/2025	0836
7440-48-4	Cobalt	6.9		01/12/2025	0836
7440-50-8	Copper	31	*	01/12/2025	0836
7439-89-6	Iron	12000		01/12/2025	0836
7439-92-1	Lead	29		01/12/2025	0836
7439-95-4	Magnesium	25000		01/12/2025	0836
7439-96-5	Manganese	740		01/12/2025	0836
7440-02-0	Nickel	13		01/12/2025	0836
7440-09-7	Potassium	800		01/12/2025	0836
7782-49-2	Selenium	1.0	J*	01/12/2025	0836
7440-22-4	Silver	1.0	U*	01/12/2025	0836
7440-23-5	Sodium	93	J	01/12/2025	0836
7440-28-0	Thallium	2.5	U	01/12/2025	0836
7440-62-2	Vanadium	8.4		01/12/2025	0836
7440-66-6	Zinc	77	*	01/12/2025	0836

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

Comments:

EPA SAMPLE NO.

MBHNA1

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.: MBHN53

Matrix: SOIL Lab Sample ID: P5206-11

% Solids: 76.2 Date Received: 12/07/2024

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		01/12/2025	0840
7440-36-0	Antimony	6.6	U*	01/12/2025	0840
7440-38-2	Arsenic	15	*	01/12/2025	0840
7440-39-3	Barium	140		01/12/2025	0840
7440-41-7	Beryllium	0.52	J	01/12/2025	0840
7440-43-9	Cadmium	1.2		01/12/2025	0840
7440-70-2	Calcium	4200		01/12/2025	0840
7440-47-3	Chromium	27		01/12/2025	0840
7440-48-4	Cobalt	9.9		01/12/2025	0840
7440-50-8	Copper	44	*	01/12/2025	0840
7439-89-6	Iron	16000		01/12/2025	0840
7439-92-1	Lead	260		01/12/2025	0840
7439-95-4	Magnesium	1700		01/12/2025	0840
7439-96-5	Manganese	1000		01/12/2025	0840
7440-02-0	Nickel	23		01/12/2025	0840
7440-09-7	Potassium	940		01/12/2025	0840
7782-49-2	Selenium	3.2	J*	01/12/2025	0840
7440-22-4	Silver	1.1	U*	01/12/2025	0840
7440-23-5	Sodium	550	U	01/12/2025	0840
7440-28-0	Thallium	2.7	U	01/12/2025	0840
7440-62-2	Vanadium	16		01/12/2025	0840
7440-66-6	Zinc	230	*	01/12/2025	0840

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

Comments:

EPA SAMPLE NO.

MBHNA2

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.: MBHN53

Matrix: SOIL Lab Sample ID: P5206-12

% Solids: 78.5 Date Received: 12/07/2024

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	5800		01/12/2025	0844
7440-36-0	Antimony	5.6	U*	01/12/2025	0844
7440-38-2	Arsenic	14	*	01/12/2025	0844
7440-39-3	Barium	120		01/12/2025	0844
7440-41-7	Beryllium	0.50		01/12/2025	0844
7440-43-9	Cadmium	1.3		01/12/2025	0844
7440-70-2	Calcium	4200		01/12/2025	0844
7440-47-3	Chromium	26		01/12/2025	0844
7440-48-4	Cobalt	9.5		01/12/2025	0844
7440-50-8	Copper	43	*	01/12/2025	0844
7439-89-6	Iron	15000		01/12/2025	0844
7439-92-1	Lead	340		01/12/2025	0844
7439-95-4	Magnesium	1600		01/12/2025	0844
7439-96-5	Manganese	940		01/12/2025	0844
7440-02-0	Nickel	22		01/12/2025	0844
7440-09-7	Potassium	780		01/12/2025	0844
7782-49-2	Selenium	3.3	*	01/12/2025	0844
7440-22-4	Silver	0.93	U*	01/12/2025	0844
7440-23-5	Sodium	470	U	01/12/2025	0844
7440-28-0	Thallium	2.3	U	01/12/2025	0844
7440-62-2	Vanadium	16		01/12/2025	0844
7440-66-6	Zinc	210	*	01/12/2025	0844

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

Comments:

EPA SAMPLE NO.

MBHNA3

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.: MBHN53

Matrix: SOIL Lab Sample ID: P5206-13

% Solids: 82.8 Date Received: 12/07/2024

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		01/12/2025	0848
7440-36-0	Antimony	5.3	U*	01/12/2025	0848
7440-38-2	Arsenic	11	*	01/12/2025	0848
7440-39-3	Barium	92		01/12/2025	0848
7440-41-7	Beryllium	0.46		01/12/2025	0848
7440-43-9	Cadmium	0.91		01/12/2025	0848
7440-70-2	Calcium	2300		01/12/2025	0848
7440-47-3	Chromium	13		01/12/2025	0848
7440-48-4	Cobalt	9.6		01/12/2025	0848
7440-50-8	Copper	28	*	01/12/2025	0848
7439-89-6	Iron	15000		01/12/2025	0848
7439-92-1	Lead	110		01/12/2025	0848
7439-95-4	Magnesium	1400		01/12/2025	0848
7439-96-5	Manganese	920		01/12/2025	0848
7440-02-0	Nickel	17		01/12/2025	0848
7440-09-7	Potassium	530		01/12/2025	0848
7782-49-2	Selenium	2.8	J*	01/12/2025	0848
7440-22-4	Silver	0.88	U*	01/12/2025	0848
7440-23-5	Sodium	440	U	01/12/2025	0848
7440-28-0	Thallium	2.2	U	01/12/2025	0848
7440-62-2	Vanadium	14		01/12/2025	0848
7440-66-6	Zinc	110	*	01/12/2025	0848

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

Comments:

EPA SAMPLE NO.

MBHNA4

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.: MBHN53

Matrix: SOIL Lab Sample ID: P5206-14

% Solids: 86.1 Date Received: 12/07/2024

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		01/12/2025	0852
7440-36-0	Antimony	5.9	U*	01/12/2025	0852
7440-38-2	Arsenic	16	*	01/12/2025	0852
7440-39-3	Barium	130		01/12/2025	0852
7440-41-7	Beryllium	0.58		01/12/2025	0852
7440-43-9	Cadmium	1.2		01/12/2025	0852
7440-70-2	Calcium	3400		01/12/2025	0852
7440-47-3	Chromium	20		01/12/2025	0852
7440-48-4	Cobalt	12		01/12/2025	0852
7440-50-8	Copper	42	*	01/12/2025	0852
7439-89-6	Iron	17000		01/12/2025	0852
7439-92-1	Lead	220		01/12/2025	0852
7439-95-4	Magnesium	1700		01/12/2025	0852
7439-96-5	Manganese	1200		01/12/2025	0852
7440-02-0	Nickel	21		01/12/2025	0852
7440-09-7	Potassium	850		01/12/2025	0852
7782-49-2	Selenium	3.7	*	01/12/2025	0852
7440-22-4	Silver	0.98	U*	01/12/2025	0852
7440-23-5	Sodium	490	U	01/12/2025	0852
7440-28-0	Thallium	2.5	U	01/12/2025	0852
7440-62-2	Vanadium	17		01/12/2025	0852
7440-66-6	Zinc	180	*	01/12/2025	0852

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

Comments:

EPA SAMPLE NO.

MBHNA5

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.: MBHN53

Matrix: SOIL Lab Sample ID: P5206-15

% Solids: 89.2 Date Received: 12/07/2024

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	5600		01/12/2025	0856
7440-36-0	Antimony	5.3	U*	01/12/2025	0856
7440-38-2	Arsenic	9.8	*	01/12/2025	0856
7440-39-3	Barium	79		01/12/2025	0856
7440-41-7	Beryllium	0.45		01/12/2025	0856
7440-43-9	Cadmium	0.94		01/12/2025	0856
7440-70-2	Calcium	1800		01/12/2025	0856
7440-47-3	Chromium	11		01/12/2025	0856
7440-48-4	Cobalt	11		01/12/2025	0856
7440-50-8	Copper	27	*	01/12/2025	0856
7439-89-6	Iron	16000		01/12/2025	0856
7439-92-1	Lead	56		01/12/2025	0856
7439-95-4	Magnesium	1800		01/12/2025	0856
7439-96-5	Manganese	1300		01/12/2025	0856
7440-02-0	Nickel	19		01/12/2025	0856
7440-09-7	Potassium	580		01/12/2025	0856
7782-49-2	Selenium	3.0	J*	01/12/2025	0856
7440-22-4	Silver	0.88	U*	01/12/2025	0856
7440-23-5	Sodium	440	U	01/12/2025	0856
7440-28-0	Thallium	2.2	U	01/12/2025	0856
7440-62-2	Vanadium	14		01/12/2025	0856
7440-66-6	Zinc	80	*	01/12/2025	0856

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

Comments:

EPA SAMPLE NO.

MBHNA6

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.: MBHN53

Matrix: SOIL Lab Sample ID: P5206-16

% Solids: 93.7 Date Received: 12/07/2024

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		01/12/2025	0900
7440-36-0	Antimony	5.2	U*	01/12/2025	0900
7440-38-2	Arsenic	12	*	01/12/2025	0900
7440-39-3	Barium	60		01/12/2025	0900
7440-41-7	Beryllium	0.40	J	01/12/2025	0900
7440-43-9	Cadmium	0.83		01/12/2025	0900
7440-70-2	Calcium	21000		01/12/2025	0900
7440-47-3	Chromium	9.6		01/12/2025	0900
7440-48-4	Cobalt	8.9		01/12/2025	0900
7440-50-8	Copper	15	*	01/12/2025	0900
7439-89-6	Iron	12000		01/12/2025	0900
7439-92-1	Lead	31		01/12/2025	0900
7439-95-4	Magnesium	1900		01/12/2025	0900
7439-96-5	Manganese	1600		01/12/2025	0900
7440-02-0	Nickel	16		01/12/2025	0900
7440-09-7	Potassium	740		01/12/2025	0900
7782-49-2	Selenium	1.9	J*	01/12/2025	0900
7440-22-4	Silver	0.87	U*	01/12/2025	0900
7440-23-5	Sodium	430	U	01/12/2025	0900
7440-28-0	Thallium	2.2	U	01/12/2025	0900
7440-62-2	Vanadium	9.1		01/12/2025	0900
7440-66-6	Zinc	55	*	01/12/2025	0900

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

Comments:

EPA SAMPLE NO.

MBHNA7

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.: MBHN53

Matrix: SOIL Lab Sample ID: P5206-17

% Solids: 93 Date Received: 12/07/2024

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	4300		01/12/2025	0904
7440-36-0	Antimony	5.2	U*	01/12/2025	0904
7440-38-2	Arsenic	7.6	*	01/12/2025	0904
7440-39-3	Barium	81		01/12/2025	0904
7440-41-7	Beryllium	0.40	J	01/12/2025	0904
7440-43-9	Cadmium	0.91		01/12/2025	0904
7440-70-2	Calcium	64000		01/12/2025	0904
7440-47-3	Chromium	8.6		01/12/2025	0904
7440-48-4	Cobalt	9.2		01/12/2025	0904
7440-50-8	Copper	36	*	01/12/2025	0904
7439-89-6	Iron	13000		01/12/2025	0904
7439-92-1	Lead	24		01/12/2025	0904
7439-95-4	Magnesium	4400		01/12/2025	0904
7439-96-5	Manganese	2000		01/12/2025	0904
7440-02-0	Nickel	17		01/12/2025	0904
7440-09-7	Potassium	670		01/12/2025	0904
7782-49-2	Selenium	1.4	J*	01/12/2025	0904
7440-22-4	Silver	0.86	U*	01/12/2025	0904
7440-23-5	Sodium	59	J	01/12/2025	0904
7440-28-0	Thallium	2.2	U	01/12/2025	0904
7440-62-2	Vanadium	9.0		01/12/2025	0904
7440-66-6	Zinc	66	*	01/12/2025	0904

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

Comments:

EPA SAMPLE NO.

MBHNJ9

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.: MBHN53

Matrix: SOIL Lab Sample ID: P5206-18

% Solids: 90.4 Date Received: 12/07/2024

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		01/12/2025	0908
7440-36-0	Antimony	5.3	U*	01/12/2025	0908
7440-38-2	Arsenic	6.3	*	01/12/2025	0908
7440-39-3	Barium	80		01/12/2025	0908
7440-41-7	Beryllium	0.33	J	01/12/2025	0908
7440-43-9	Cadmium	0.82		01/12/2025	0908
7440-70-2	Calcium	7300		01/12/2025	0908
7440-47-3	Chromium	11		01/12/2025	0908
7440-48-4	Cobalt	8.5		01/12/2025	0908
7440-50-8	Copper	31	*	01/12/2025	0908
7439-89-6	Iron	14000		01/12/2025	0908
7439-92-1	Lead	25		01/12/2025	0908
7439-95-4	Magnesium	3300		01/12/2025	0908
7439-96-5	Manganese	930		01/12/2025	0908
7440-02-0	Nickel	20		01/12/2025	0908
7440-09-7	Potassium	600		01/12/2025	0908
7782-49-2	Selenium	2.4	J*	01/12/2025	0908
7440-22-4	Silver	0.89	U*	01/12/2025	0908
7440-23-5	Sodium	93	J	01/12/2025	0908
7440-28-0	Thallium	2.2	U	01/12/2025	0908
7440-62-2	Vanadium	11		01/12/2025	0908
7440-66-6	Zinc	110	*	01/12/2025	0908

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

Comments:

EPA SAMPLE NO.

MBHNK0

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.: MBHN53

Matrix: SOIL Lab Sample ID: P5206-19

% Solids: 76.3 Date Received: 12/07/2024

Analytical Method: ICP_AES

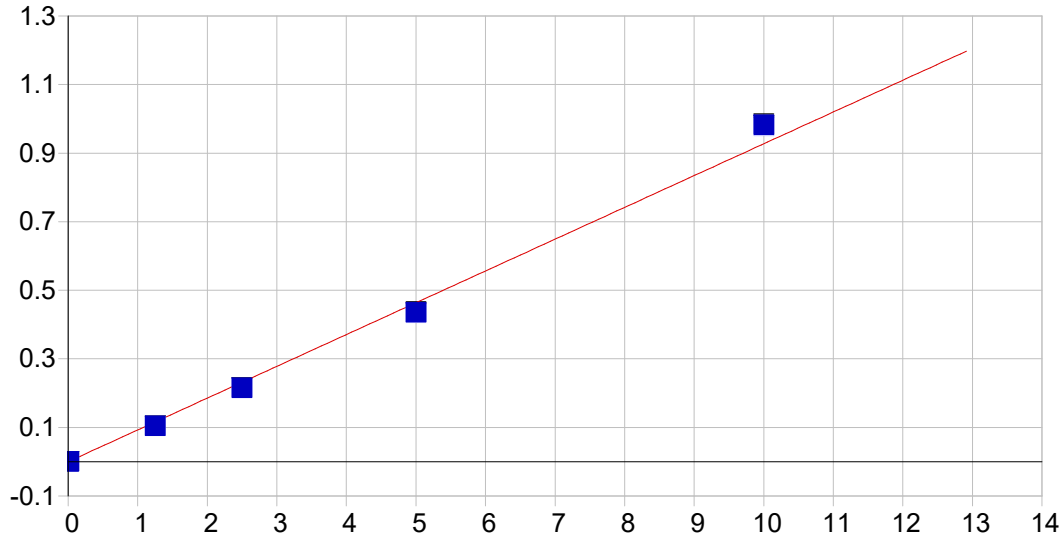
Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	6200		01/12/2025	0912
7440-36-0	Antimony	7.4	U*	01/12/2025	0912
7440-38-2	Arsenic	16	*	01/12/2025	0912
7440-39-3	Barium	140		01/12/2025	0912
7440-41-7	Beryllium	0.55	J	01/12/2025	0912
7440-43-9	Cadmium	1.3		01/12/2025	0912
7440-70-2	Calcium	4300		01/12/2025	0912
7440-47-3	Chromium	28		01/12/2025	0912
7440-48-4	Cobalt	12		01/12/2025	0912
7440-50-8	Copper	45	*	01/12/2025	0912
7439-89-6	Iron	17000		01/12/2025	0912
7439-92-1	Lead	270		01/12/2025	0912
7439-95-4	Magnesium	1700		01/12/2025	0912
7439-96-5	Manganese	1100		01/12/2025	0912
7440-02-0	Nickel	22		01/12/2025	0912
7440-09-7	Potassium	990		01/12/2025	0912
7782-49-2	Selenium	3.6	J*	01/12/2025	0912
7440-22-4	Silver	1.2	U*	01/12/2025	0912
7440-23-5	Sodium	120	J	01/12/2025	0912
7440-28-0	Thallium	3.1	U	01/12/2025	0912
7440-62-2	Vanadium	17		01/12/2025	0912
7440-66-6	Zinc	230	*	01/12/2025	0912

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

Comments:

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

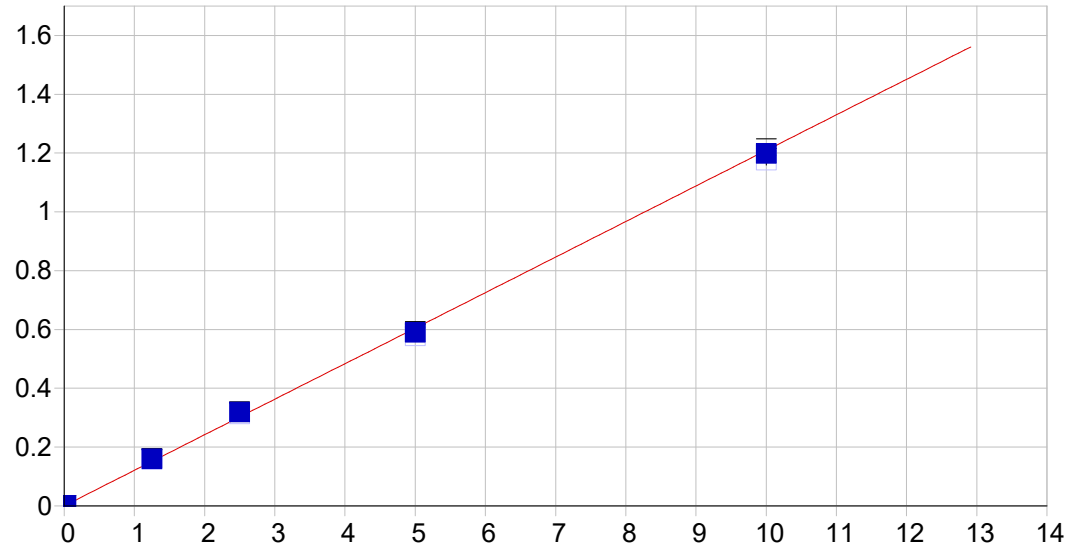


As 189.042 {479}

Date of Fit:	1/12/2025 2:25:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000036	Re-Slope:	1.000000
A1 (Gain):	0.092726	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.997932	Status:	OK.
Std Error of Est:	0.000100		
Predicted MDL:	0.002428		
Predicted MQL:	0.008093		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00004	.000	1
S1	.01000	.00900	-.001	-10.0	.00080	.000	1
S3	2.5000	2.3279	-.172	-6.88	.21489	.000	1
S4	5.0000	4.6998	-.300	-6.00	.43391	.002	1
S5	10.000	10.595	.595	5.95	.97869	.003	1
S2	1.2500	1.1283	-.122	-9.74	.10412	.000	1



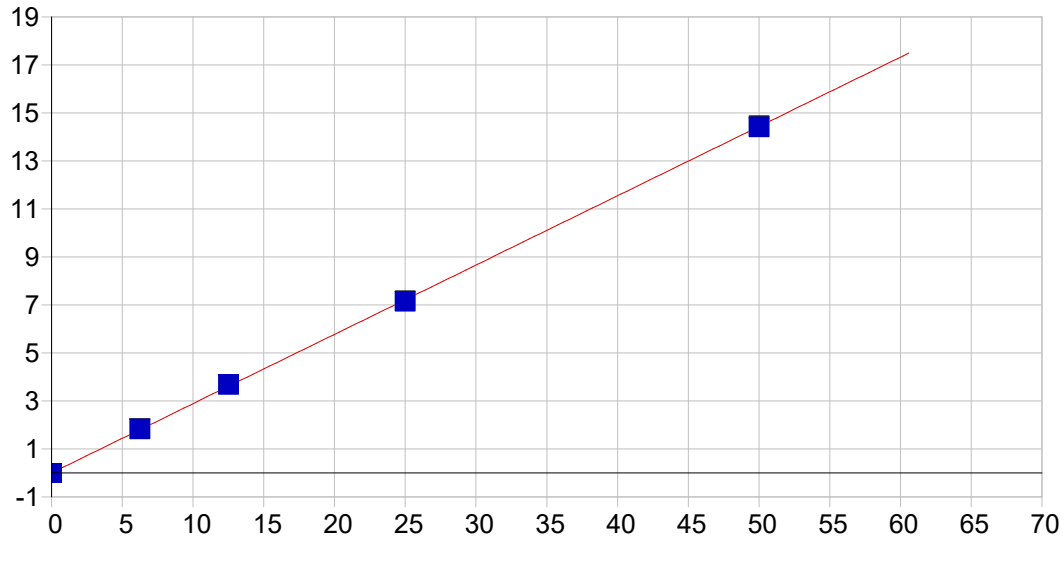
Tl 190.856 {477}

Date of Fit:	1/12/2025 2:25:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000180	Re-Slope:	1.000000
A1 (Gain):	0.120880	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999576	Status:	OK.
Std Error of Est:	0.000092		
Predicted MDL:	0.001598		
Predicted MQL:	0.005325		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00018	.000	1
S1	.02500	.02752	.003	10.1	.00338	.000	1
S3	2.5000	2.6347	.135	5.39	.31282	.002	1
S4	5.0000	4.8774	-.123	-2.45	.57807	.004	1
S5	10.000	9.9141	-.086	-.859	1.1752	.016	1
S2	1.2500	1.3213	.071	5.71	.15698	.000	1

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4



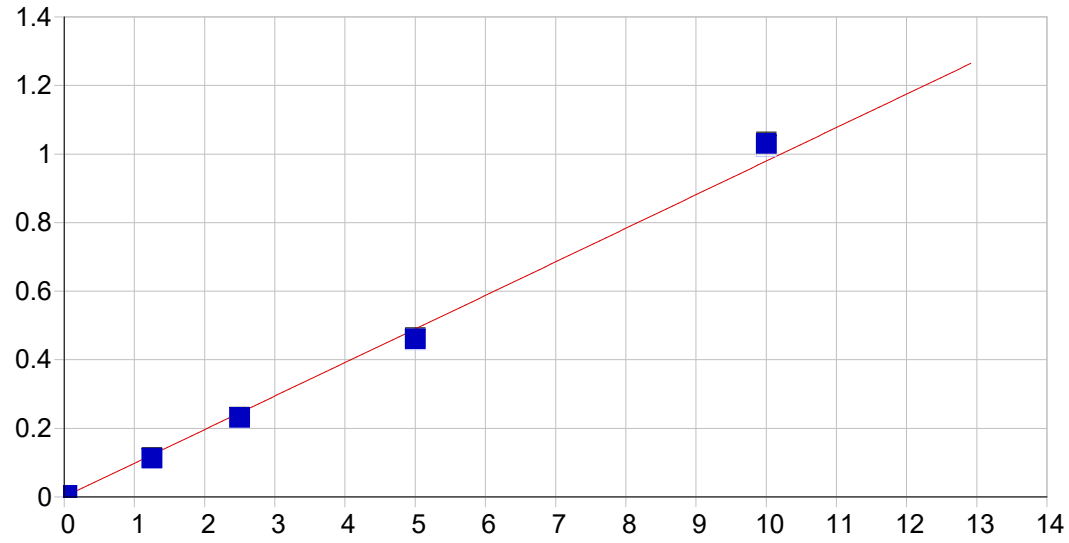
Pb 220.353 {453}

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A0 (Offset):	-0.000148	Re-Slope:	1.000000
A1 (Gain):	0.288689	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999954	Status:	OK.
Std Error of Est:	0.000103		
Predicted MDL:	0.001519		
Predicted MQL:	0.005063		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00015	.001	1
S1	.01000	.01016	.000	1.64	.00277	.001	1
S3	12.500	12.740	.240	1.92	3.6748	.002	1
S4	25.000	24.758	-.242	-.967	7.1412	.015	1
S5	50.000	49.907	-.093	-.185	14.395	.051	1
S2	6.2500	6.3439	.094	1.50	1.8298	.005	1

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4



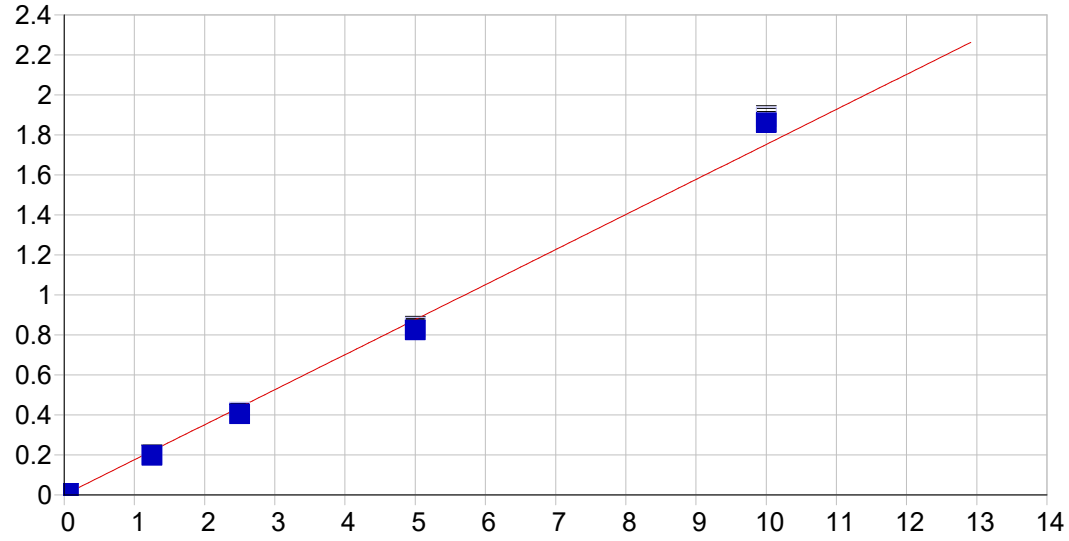
Se 196.090 {472}

Date of Fit:	1/12/2025 2:25:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000407	Re-Slope:	1.000000
A1 (Gain):	0.097877	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998404	Status:	OK.
Std Error of Est:	0.000172		
Predicted MDL:	0.002899		
Predicted MQL:	0.009664		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00041	.000	1
S1	.03500	.03348	-.002	-4.34	.00368	.000	1
S3	2.5000	2.3652	-.135	-5.39	.22965	.001	1
S4	5.0000	4.7106	-.289	-5.79	.45696	.002	1
S5	10.000	10.523	.523	5.23	1.0213	.004	1
S2	1.2500	1.1528	-.097	-7.78	.11211	.000	1

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4



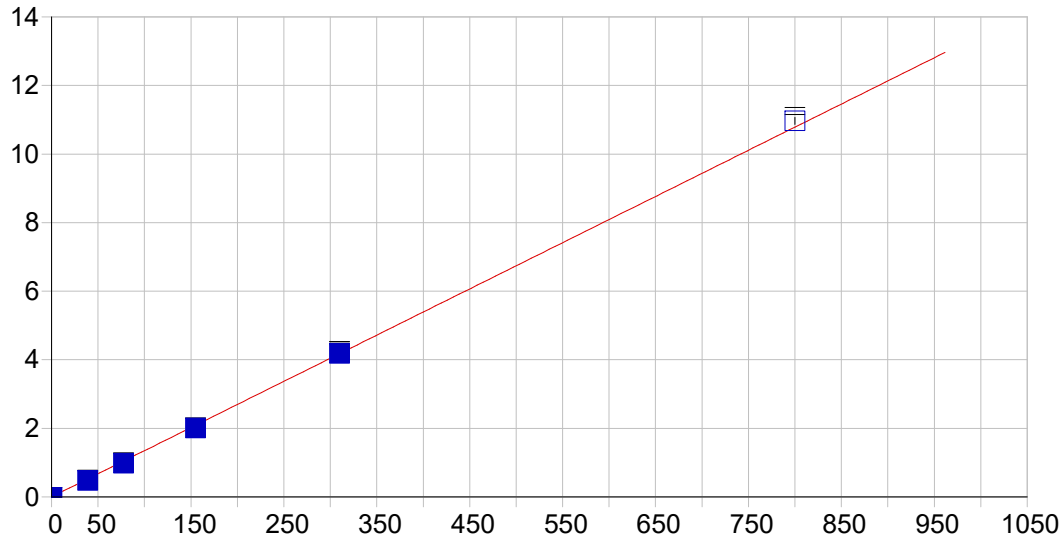
Sb 206.833 {463}

Date of Fit:	1/12/2025 2:25:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000425	Re-Slope:	1.000000
A1 (Gain):	0.175170	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.997818	Status:	OK.
Std Error of Est:	0.000484		
Predicted MDL:	0.001924		
Predicted MQL:	0.006414		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	.00043	.000	1
S1	.06000	.05130	-.009	-14.5	.00940	.000	1
S3	2.5000	2.3107	-.189	-7.57	.41235	.001	1
S4	5.0000	4.7025	-.297	-5.95	.83848	.004	1
S5	10.000	10.623	.623	6.23	1.8898	.006	1
S2	1.2500	1.1226	-.127	-10.2	.20065	.001	1

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4



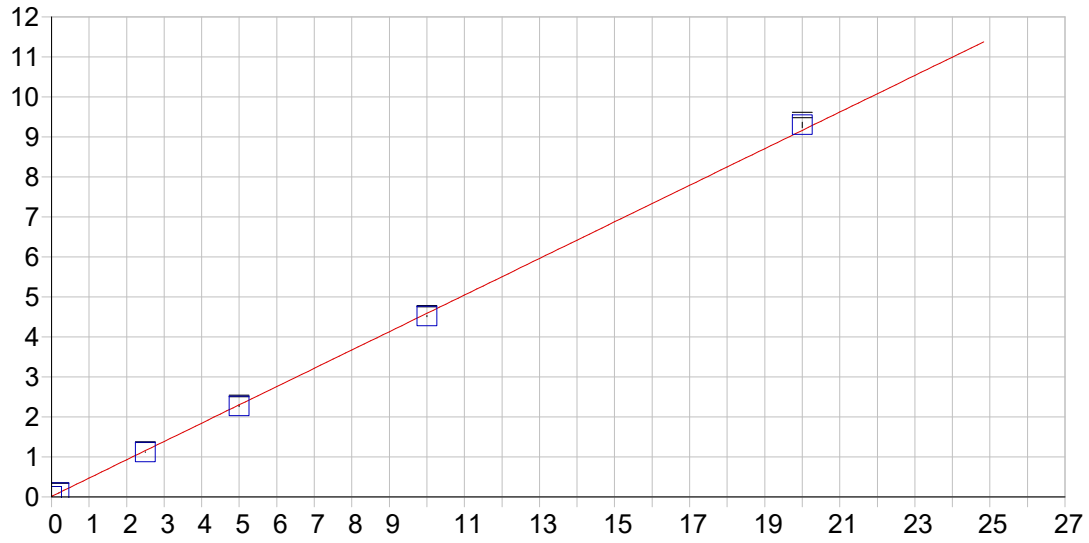
Al 396.152 { 85}

Date of Fit:	1/12/2025 2:29:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000102	Re-Slope:	1.000000
A1 (Gain):	0.013481	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999630	Status:	OK.
Std Error of Est:	0.000228		
Predicted MDL:	0.010951		
Predicted MQL:	0.036504		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	.00010	.000	1
S1	.20000	.21474	.015	7.37	.00300	.000	1
S3	77.500	72.861	-4.64	-5.99	.98357	.006	1
S4	155.00	148.77	-6.23	-4.02	2.0081	.003	1
S5	310.00	310.49	.491	.158	4.1908	.048	1
S2	38.750	35.562	-3.19	-8.23	.48013	.002	1
S6	800.00	813.57	13.6	1.70	10.968	.103	1

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4



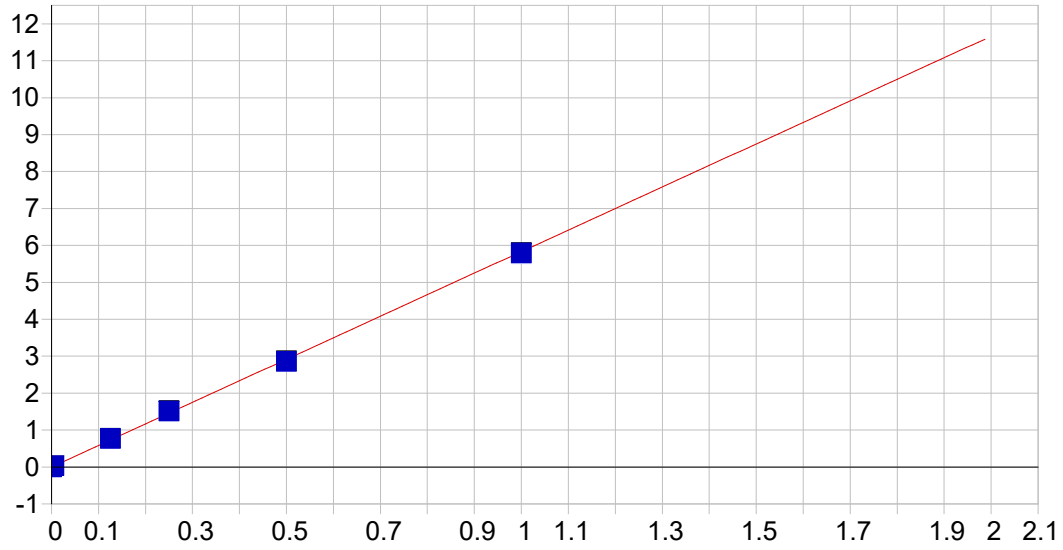
Ba 493.409 { 68}

Date of Fit:	1/12/2025 2:25:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.013631	Re-Slope:	1.000000
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A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999858	Status:	OK.
Std Error of Est:	0.000819		
Predicted MDL:	0.001017		
Predicted MQL:	0.003391		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	.01364	.000	1
S1	.20000	.18965	-.010	-5.17	.10040	.001	1
S3	5.0000	4.9395	-.061	-1.21	2.2735	.021	1
S4	10.000	9.8502	-.150	-1.50	4.5202	.019	1
S5	20.000	20.302	.302	1.51	9.3019	.069	1
S2	2.5000	2.4188	-.081	-3.25	1.1202	.006	1

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

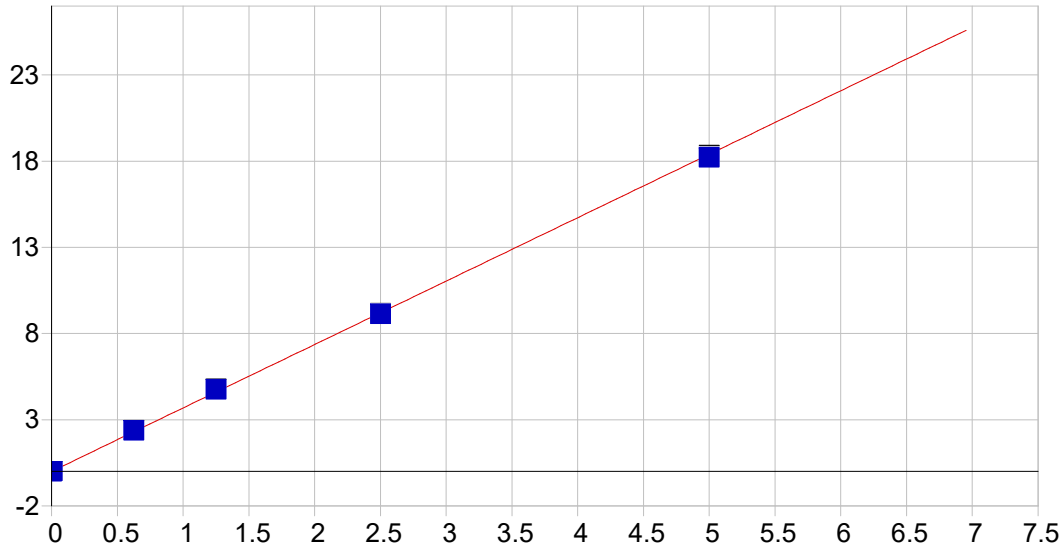


Be 234.861 {144}

Date of Fit:	1/12/2025 2:25:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000087	Re-Slope:	1.000000
A1 (Gain):	5.831456	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999734	Status:	OK.
Std Error of Est:	0.000503		
Predicted MDL:	0.000078		
Predicted MQL:	0.000259		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00008	.000	1
S1	.00500	.00530	.000	6.02	.03096	.000	1
S3	.25000	.25944	.009	3.78	1.5064	.005	1
S4	.50000	.48994	-.010	-2.01	2.8440	.013	1
S5	1.0000	.99349	-.007	-.651	5.7673	.012	1
S2	.12500	.13183	.007	5.46	.76554	.004	1



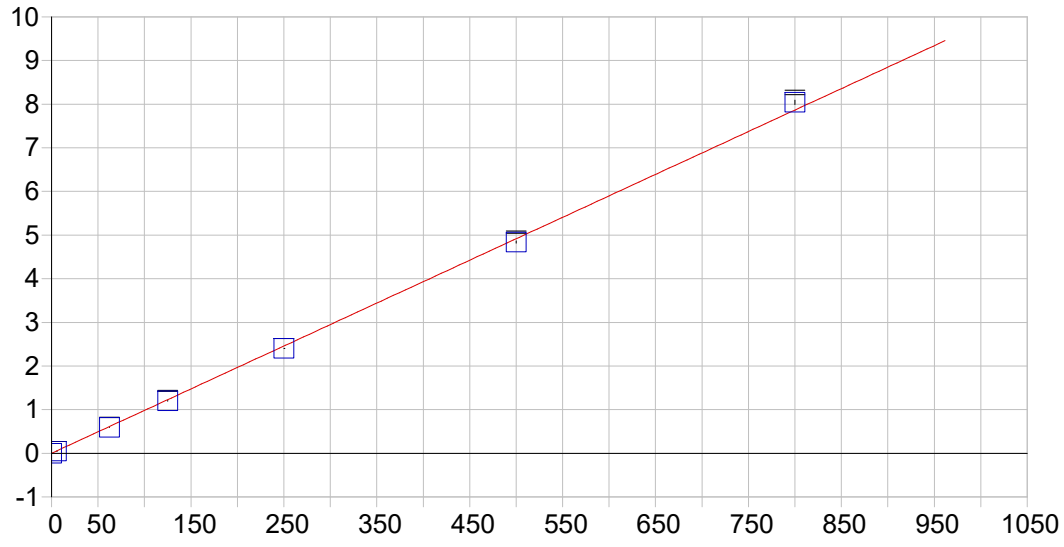
Cd 214.438 {457}

Date of Fit:	1/12/2025 2:25:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000026	Re-Slope:	1.000000
A1 (Gain):	3.680984	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999846	Status:	OK.
Std Error of Est:	0.000543		
Predicted MDL:	0.000077		
Predicted MQL:	0.000257		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00003	.000	1
S1	.00500	.00506	.000	1.24	.01867	.000	1
S3	1.2500	1.2948	.045	3.59	4.7754	.005	1
S4	2.5000	2.4831	-.017	-.675	9.1586	.022	1
S5	5.0000	4.9510	-.049	-.981	18.261	.082	1
S2	.62500	.64601	.021	3.36	2.3825	.006	1

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4



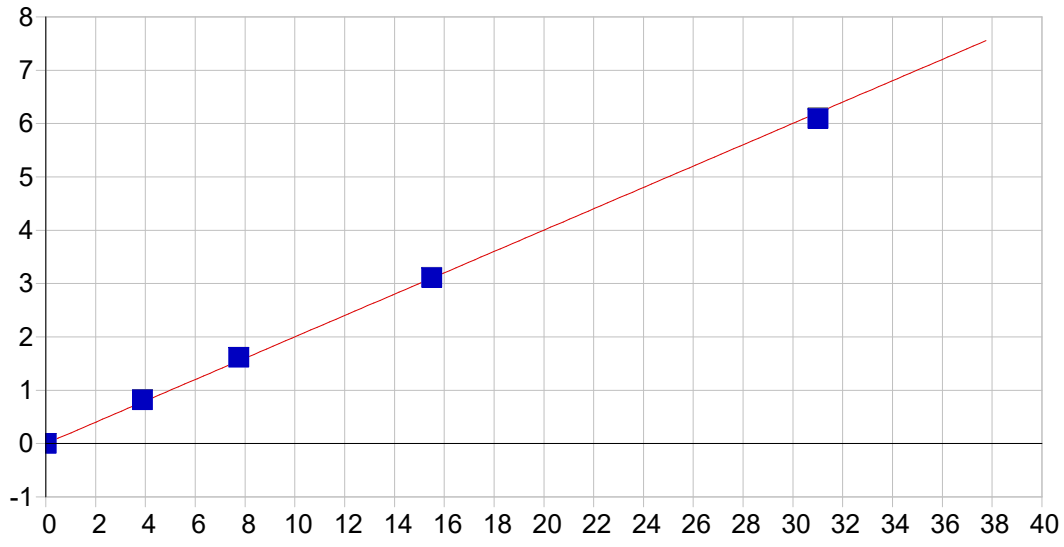
Ca 373.690 { 90}

Date of Fit:	1/12/2025 2:29:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000016	Re-Slope:	1.000000
A1 (Gain):	0.009832	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999773	Status:	OK.
Std Error of Est:	0.000732		
Predicted MDL:	0.011714		
Predicted MQL:	0.039048		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00048	.000	.000	.00002	.000	1
S2	62.500	60.391	-2.11	-3.37	.59377	.002	1
S3	125.00	122.38	-2.62	-2.10	1.2032	.008	1
S4	250.00	244.44	-5.56	-2.22	2.4033	.003	1
S5	500.00	492.15	-7.85	-1.57	4.8388	.027	1
S1	5.0000	4.8719	-.128	-2.56	.04792	.000	1
S6	800.00	818.26	18.3	2.28	8.0450	.052	1

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4



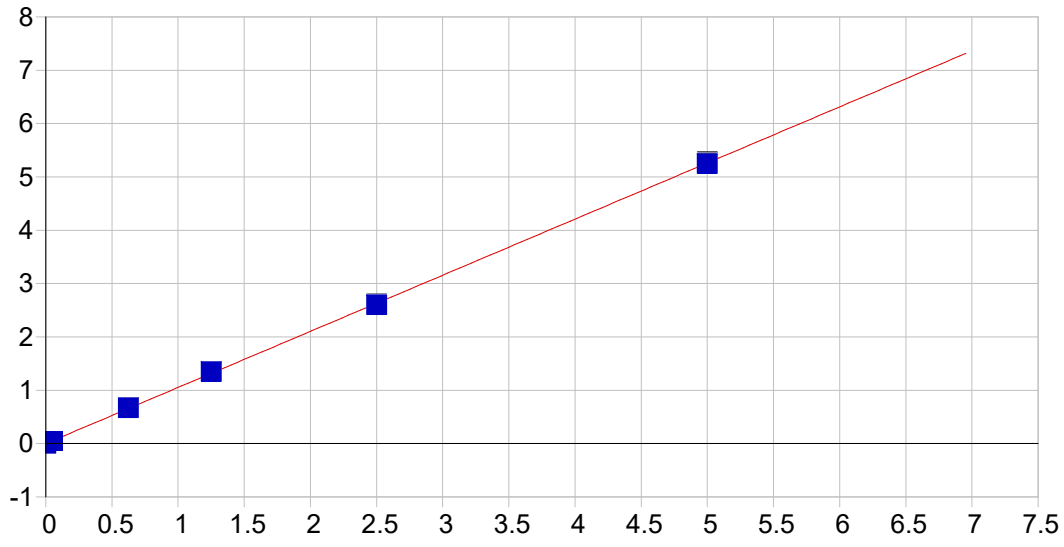
Cr 267.716 {126}

Date of Fit:	1/12/2025 2:25:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000041	Re-Slope:	1.000000
A1 (Gain):	0.200102	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999698	Status:	OK.
Std Error of Est:	0.000145		
Predicted MDL:	0.000451		
Predicted MQL:	0.001502		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00004	.000	1
S1	.01000	.01051	.001	5.13	.00215	.000	1
S3	7.7500	8.0695	.320	4.12	1.6152	.002	1
S4	15.500	15.534	.034	.219	3.1092	.005	1
S5	31.000	30.435	-.565	-1.82	6.0916	.011	1
S2	3.8750	4.0864	.211	5.45	.81793	.001	1

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4



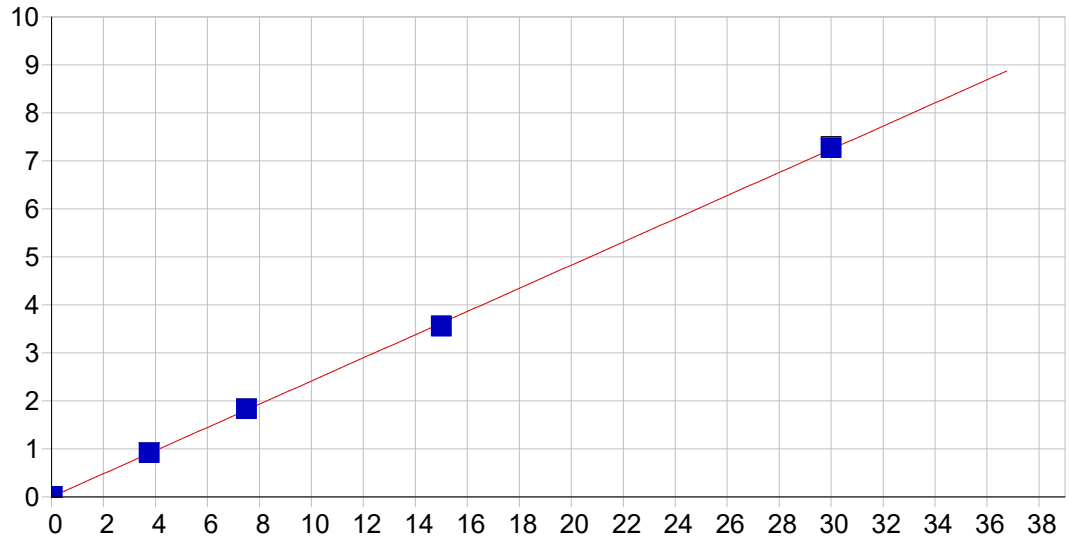
Co 228.616 {448}

Date of Fit:	1/12/2025 2:25:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000050	Re-Slope:	1.000000
A1 (Gain):	1.052193	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999933	Status:	OK.
Std Error of Est:	0.000325		
Predicted MDL:	0.000290		
Predicted MQL:	0.000966		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00005	.000	1
S1	.05000	.04973	-.000	-.531	.05248	.000	1
S3	1.2500	1.2793	.029	2.35	1.3511	.002	1
S4	2.5000	2.4730	-.027	-1.08	2.6120	.006	1
S5	5.0000	4.9854	-.015	-.292	5.2656	.018	1
S2	.62500	.63754	.013	2.01	.67327	.002	1

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4



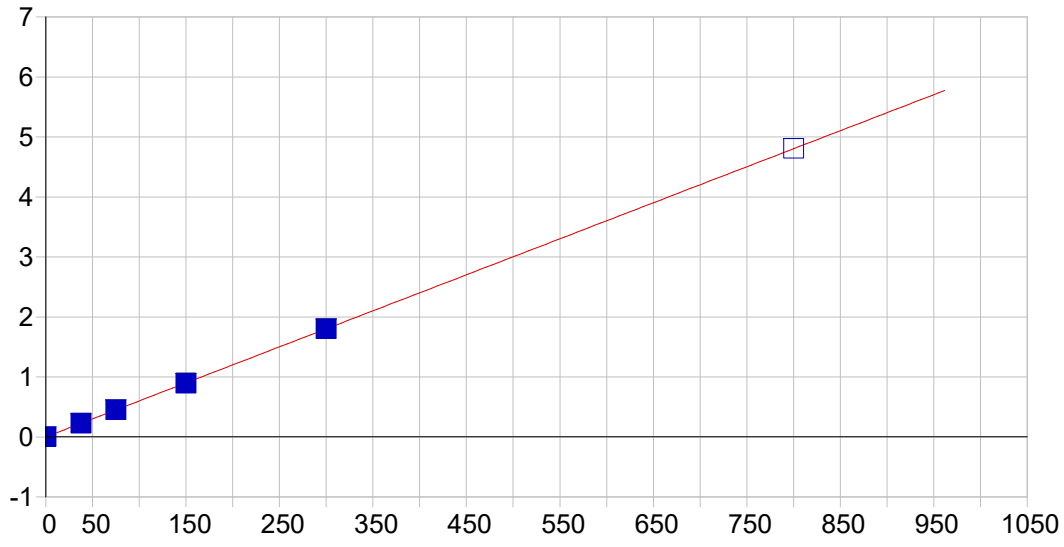
Cu 324.754 {104}

Date of Fit:	1/12/2025 2:25:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000772	Re-Slope:	1.000000
A1 (Gain):	0.241369	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999924	Status:	OK.
Std Error of Est:	0.000137		
Predicted MDL:	0.002443		
Predicted MQL:	0.008145		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00077	.000	1
S1	.02500	.02604	.001	4.17	.00706	.000	1
S3	7.5000	7.5844	.084	1.13	1.8312	.003	1
S4	15.000	14.709	-.291	-1.94	3.5506	.009	1
S5	30.000	30.136	.136	.455	7.2741	.022	1
S2	3.7500	3.8195	.069	1.85	.92258	.003	1

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

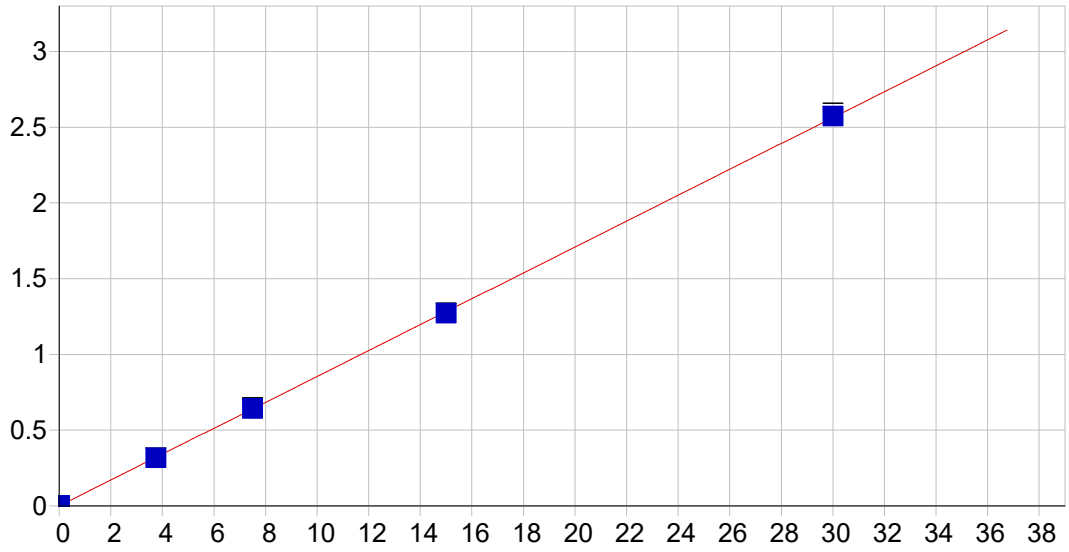


Fe 259.837 {130}

Date of Fit:	1/12/2025 2:29:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000001	Re-Slope:	1.000000
A1 (Gain):	0.006004	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999995	Status:	OK.
Std Error of Est:	0.000008		
Predicted MDL:	0.007620		
Predicted MQL:	0.025400		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00000	.000	1
S1	.10000	.10456	.005	4.56	.00062	.000	1
S3	75.000	75.267	.267	.356	.45141	.002	1
S4	150.00	148.77	-1.23	-.818	.89225	.001	1
S5	300.00	300.13	.131	.044	1.8000	.004	1
S2	37.500	37.402	-.098	-.262	.22432	.001	1
S6	800.00	800.92	.922	.115	4.8084	.002	1



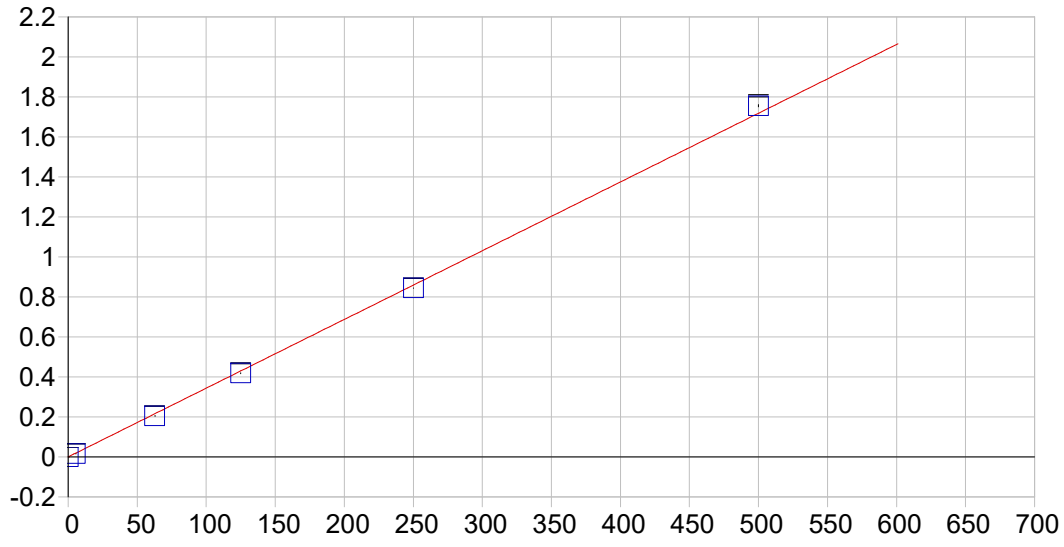
Mn 257.610 {131}

Date of Fit:	1/12/2025 2:25:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000012	Re-Slope:	1.000000
A1 (Gain):	0.085459	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999985	Status:	OK.
Std Error of Est:	0.000017		
Predicted MDL:	0.000488		
Predicted MQL:	0.001628		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00001	.000	1
S1	.01500	.01485	-.000	-1.02	.00128	.000	1
S3	7.5000	7.5268	.027	.357	.64280	.005	1
S4	15.000	14.889	-.111	-.742	1.2715	.002	1
S5	30.000	30.120	.120	.399	2.5722	.019	1
S2	3.7500	3.7151	-.035	-.931	.31728	.001	1

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4



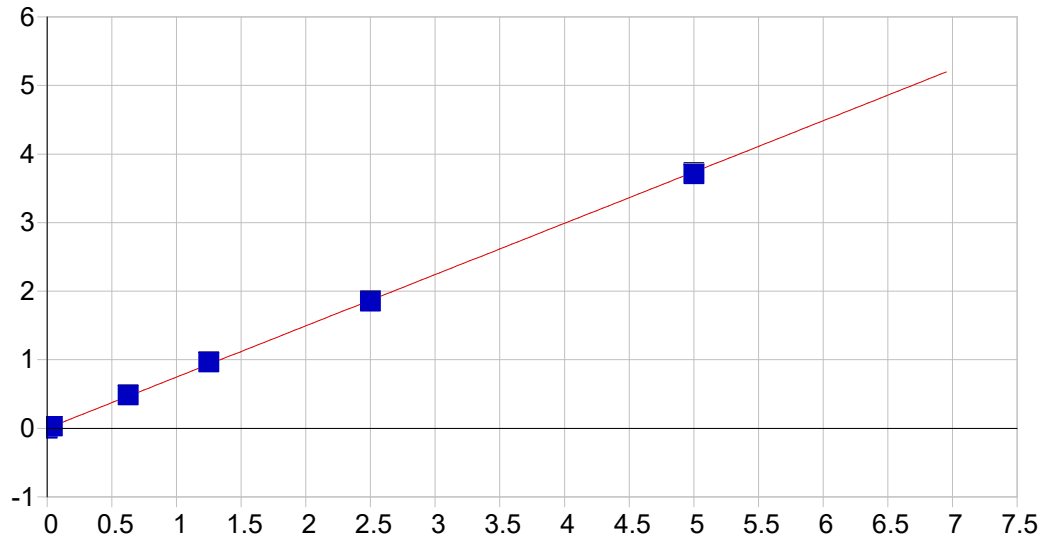
Mg 279.079 {121}

Date of Fit:	1/12/2025 2:25:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000067	Re-Slope:	1.000000
A1 (Gain):	0.003437	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999702	Status:	OK.
Std Error of Est:	0.000223		
Predicted MDL:	0.017482		
Predicted MQL:	0.058275		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00078	.001	.000	-.00006	.000	1
S2	62.500	59.612	-2.89	-4.62	.20482	.001	1
S3	125.00	121.86	-3.14	-2.51	.41878	.002	1
S4	250.00	245.64	-4.36	-1.75	.84419	.001	1
S5	500.00	510.83	10.8	2.17	1.7557	.005	1
S1	5.0000	4.5566	-.443	-8.87	.01559	.000	1

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4



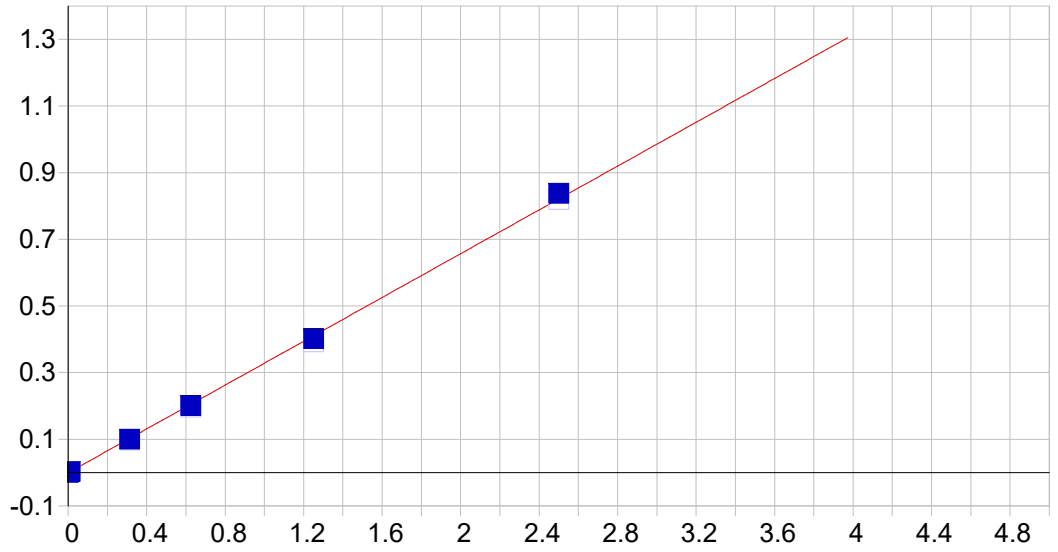
Ni 231.604 {446}

Date of Fit:	1/12/2025 2:25:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000039	Re-Slope:	1.000000
A1 (Gain):	0.747494	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999875	Status:	OK.
Std Error of Est:	0.000281		
Predicted MDL:	0.000455		
Predicted MQL:	0.001517		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00004	.000	1
S1	.04000	.04091	.001	2.27	.03057	.000	1
S3	1.2500	1.2894	.039	3.15	.96597	.000	1
S4	2.5000	2.4782	-.022	-.873	1.8568	.005	1
S5	5.0000	4.9618	-.038	-.763	3.7177	.012	1
S2	.62500	.64467	.020	3.15	.48294	.001	1

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4



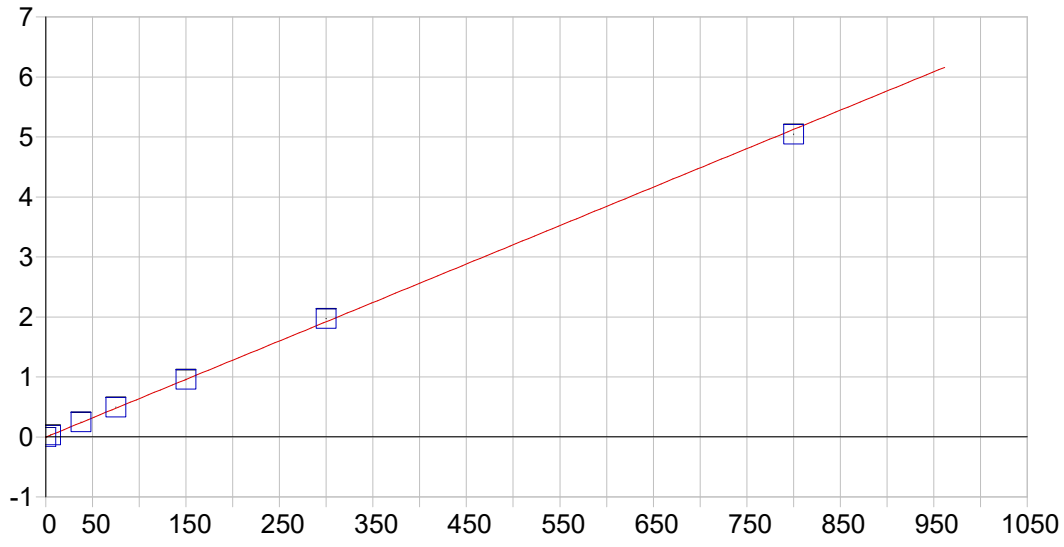
Ag 328.068 {103}

Date of Fit:	1/12/2025 2:25:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000377	Re-Slope:	1.000000
A1 (Gain):	0.328618	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999756	Status:	OK.
Std Error of Est:	0.000060		
Predicted MDL:	0.000449		
Predicted MQL:	0.001496		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00038	.000	1
S1	.01000	.00998	-.000	-.195	.00288	.000	1
S3	.62500	.61193	-.013	-2.09	.19594	.001	1
S4	1.2500	1.2213	-.029	-2.29	.39143	.001	1
S5	2.5000	2.5504	.050	2.02	.81864	.001	1
S2	.31250	.30383	-.009	-2.77	.09708	.000	1

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4



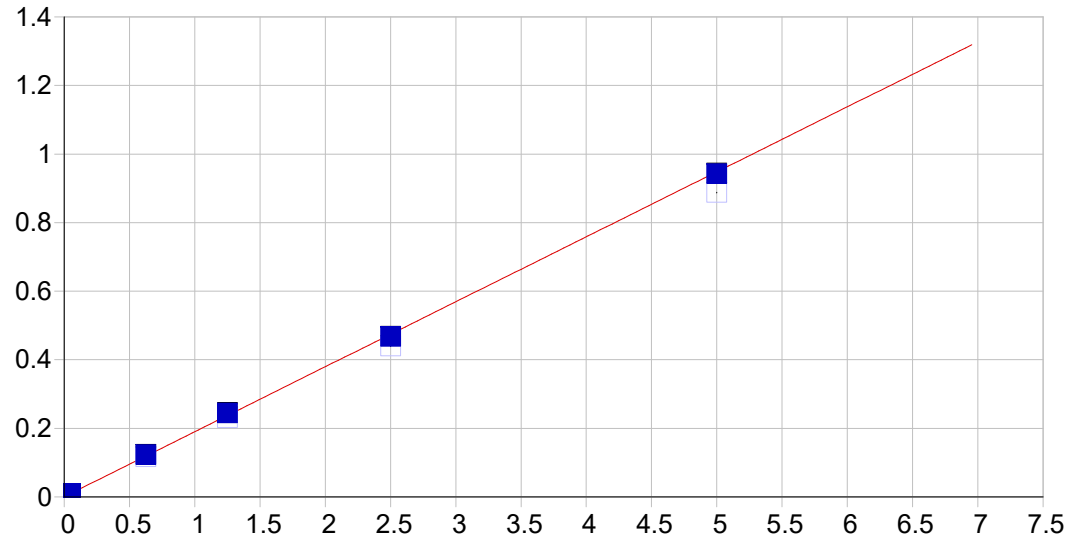
Na 818.326 { 41}

Date of Fit:	1/12/2025 2:29:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.002939	Re-Slope:	1.000000
A1 (Gain):	0.006409	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999782	Status:	OK.
Std Error of Est:	0.000413		
Predicted MDL:	0.269073		
Predicted MQL:	0.896909		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00074	-.001	.000	-.00294	.001	1
S2	37.500	38.925	1.42	3.80	.24654	.003	1
S3	75.000	77.801	2.80	3.73	.49571	.001	1
S4	150.00	149.93	-.071	-.047	.95801	.004	1
S5	300.00	308.12	8.12	2.71	1.9719	.004	1
S1	5.0000	5.3040	.304	6.08	.03106	.001	1
S6	800.00	787.42	-12.6	-1.57	5.0439	.003	1

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4



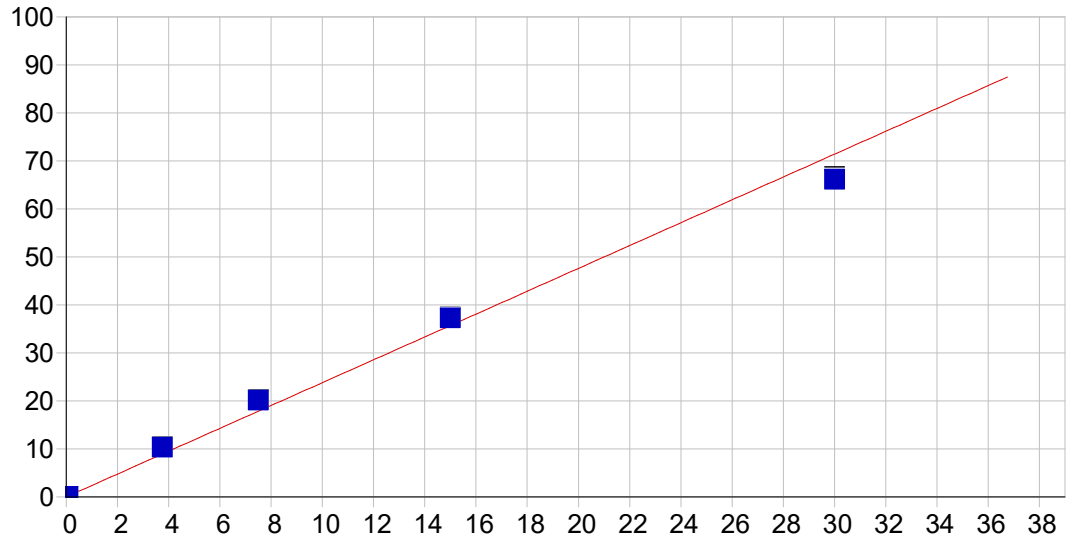
V 292.402 {115}

Date of Fit:	1/12/2025 2:25:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000567	Re-Slope:	1.000000
A1 (Gain):	0.189522	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999828	Status:	OK.
Std Error of Est:	0.000088		
Predicted MDL:	0.002323		
Predicted MQL:	0.007744		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00057	.000	1
S1	.05000	.05142	.001	2.85	.01029	.000	1
S3	1.2500	1.2884	.038	3.07	.23090	.002	1
S4	2.5000	2.4625	-.037	-1.50	.43956	.001	1
S5	5.0000	4.9733	-.027	-.534	.88770	.001	1
S2	.62500	.64929	.024	3.89	.11670	.000	1

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4



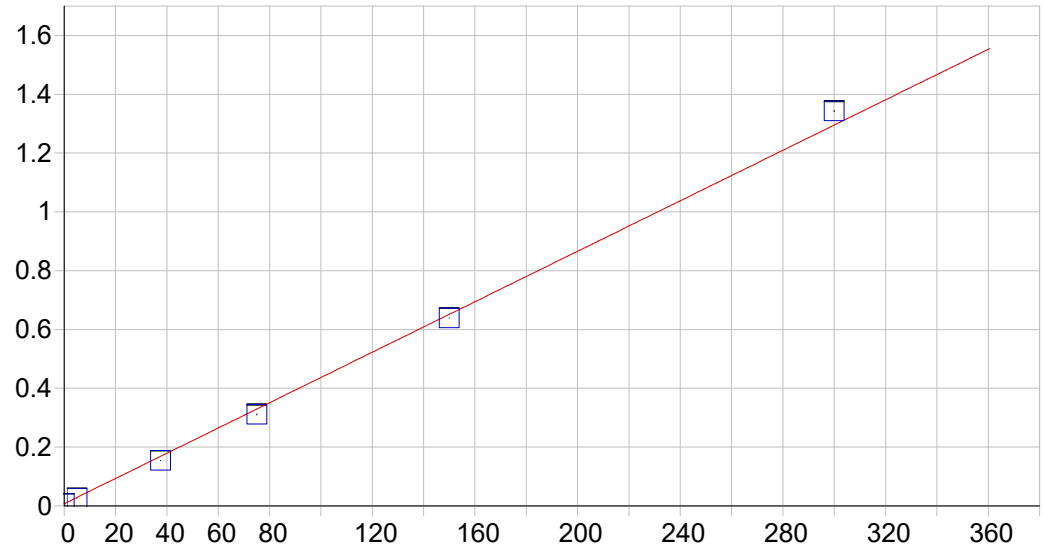
Zn 213.856 {158}

Date of Fit:	1/12/2025 2:25:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002431	Re-Slope:	1.000000
A1 (Gain):	2.380133	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.996413	Status:	OK.
Std Error of Est:	0.014436		
Predicted MDL:	0.000326		
Predicted MQL:	0.001087		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00003	-.000	.000	.00236	.000	1
S1	.06000	.07478	.015	24.6	.18127	.002	1
S3	7.5000	8.4518	.952	12.7	20.186	.051	1
S4	15.000	15.655	.655	4.36	37.397	.082	1
S5	30.000	27.788	-2.21	-7.37	66.411	.351	1
S2	3.7500	4.3408	.591	15.8	10.368	.034	1

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

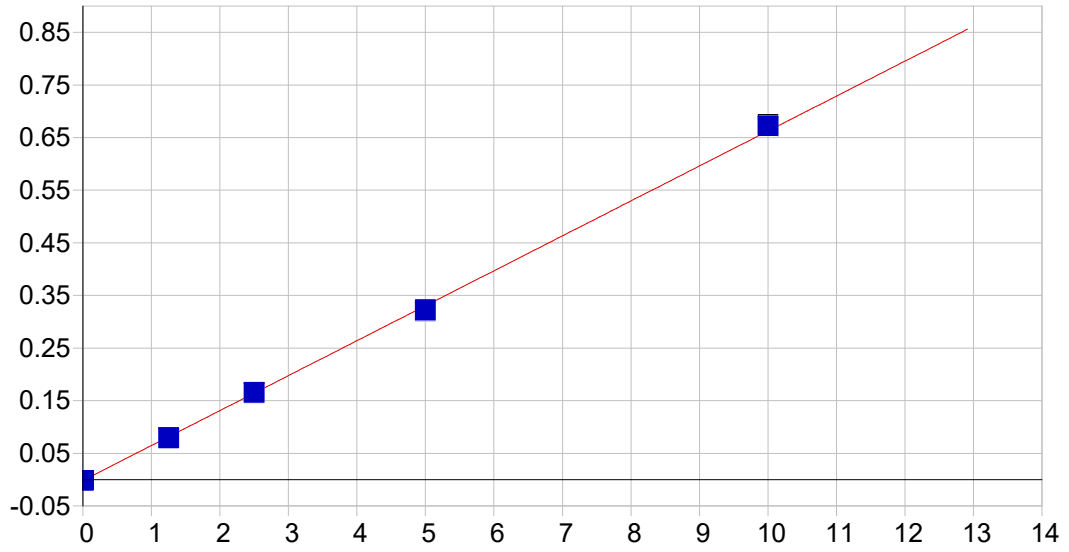


K 769.896 { 44}

Date of Fit:	1/12/2025 2:25:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.007528	Re-Slope:	1.000000
A1 (Gain):	0.004293	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999054	Status:	OK.
Std Error of Est:	0.000385		
Predicted MDL:	0.063163		
Predicted MQL:	0.210544		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00125	.001	.000	.00753	.000	1
S2	37.500	34.120	-3.38	-9.01	.15400	.001	1
S3	75.000	70.785	-4.22	-5.62	.31140	.002	1
S4	150.00	147.16	-2.84	-1.89	.63929	.001	1
S5	300.00	311.04	11.0	3.68	1.3428	.002	1
S1	5.0000	4.3953	-.605	-12.1	.02640	.000	1



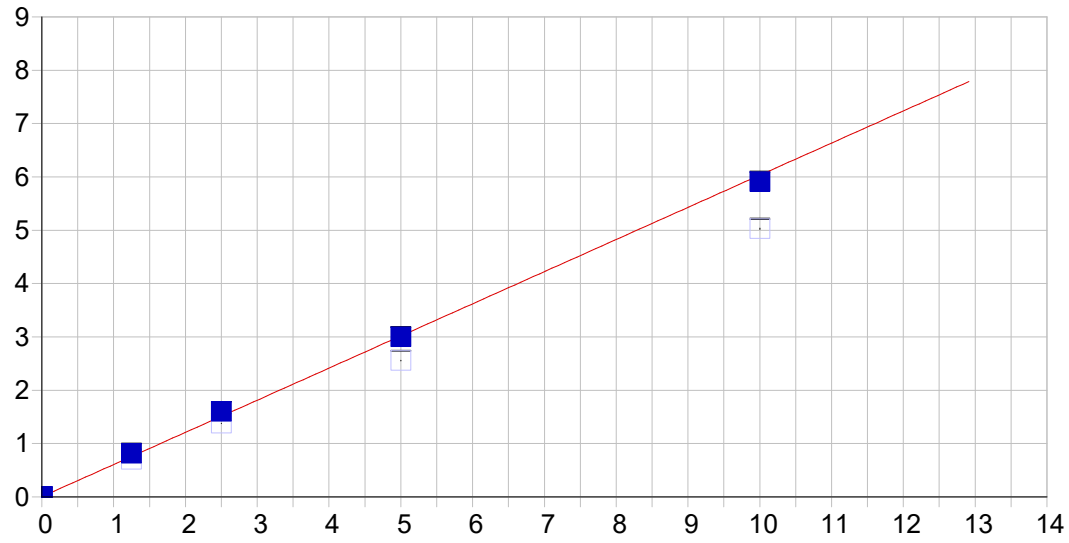
P 177.495 {490}

Date of Fit:	1/12/2025 2:25:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001713	Re-Slope:	1.000000
A1 (Gain):	0.066421	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999810	Status:	OK.
Std Error of Est:	0.000022		
Predicted MDL:	0.002139		
Predicted MQL:	0.007129		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00171	.000	1
S1	.01000	.00894	-.001	-10.6	-.00112	.000	1
S3	2.5000	2.5120	.012	.481	.16395	.000	1
S4	5.0000	4.8700	-.130	-2.60	.31938	.001	1
S5	10.000	10.156	.156	1.56	.66809	.002	1
S2	1.2500	1.2134	-.037	-2.92	.07829	.000	1

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4



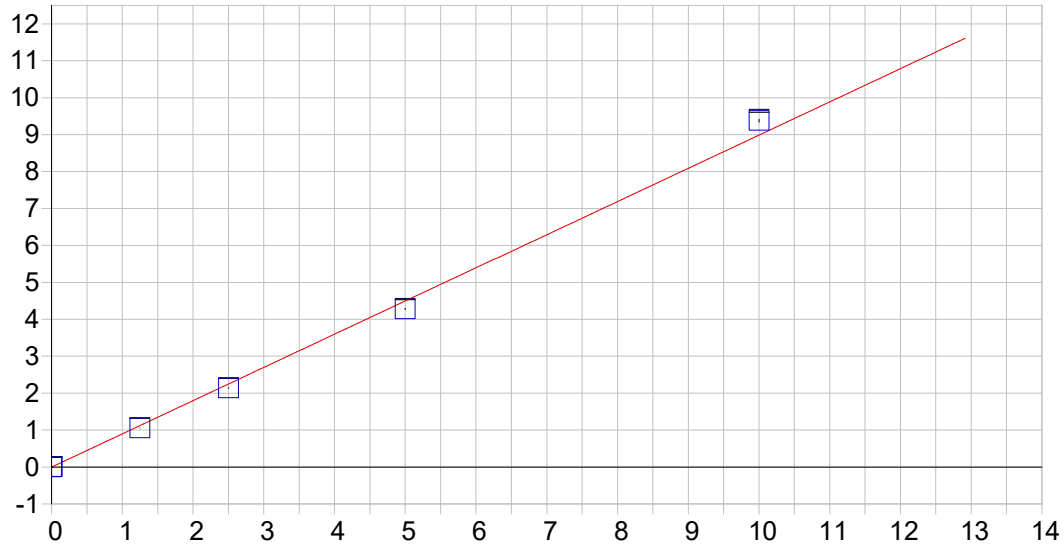
B 249.678 {135}

Date of Fit:	1/12/2025 2:25:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004142	Re-Slope:	1.000000
A1 (Gain):	0.602777	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998866	Status:	OK.
Std Error of Est:	0.000411		
Predicted MDL:	0.000804		
Predicted MQL:	0.002681		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00415	.001	1
S1	.01000	-.00046	-.010	-105.	.00356	.000	1
S3	2.5000	2.6468	.147	5.87	1.3779	.003	1
S4	5.0000	4.9683	-.032	-.634	2.5556	.007	1
S5	10.000	9.8012	-.199	-1.99	5.0254	.012	1
S2	1.2500	1.3453	.095	7.62	.70422	.005	1

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4



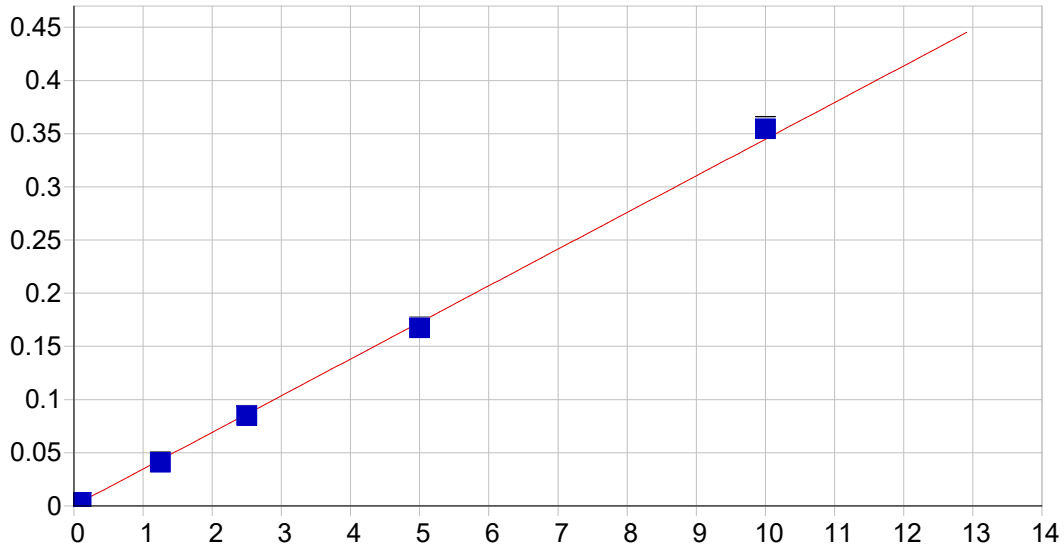
Mo 202.030 {467}

Date of Fit:	1/12/2025 2:25:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000004	Re-Slope:	1.000000
A1 (Gain):	0.898574	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998914	Status:	OK.
Std Error of Est:	0.000703		
Predicted MDL:	0.000339		
Predicted MQL:	0.001129		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00001	.000	1
S1	.01000	.00922	-.001	-7.82	.00829	.000	1
S3	2.5000	2.3773	-.123	-4.91	2.1362	.005	1
S4	5.0000	4.7622	-.238	-4.76	4.2792	.018	1
S5	10.000	10.436	.436	4.36	9.3773	.038	1
S2	1.2500	1.1755	-.074	-5.96	1.0563	.004	1

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

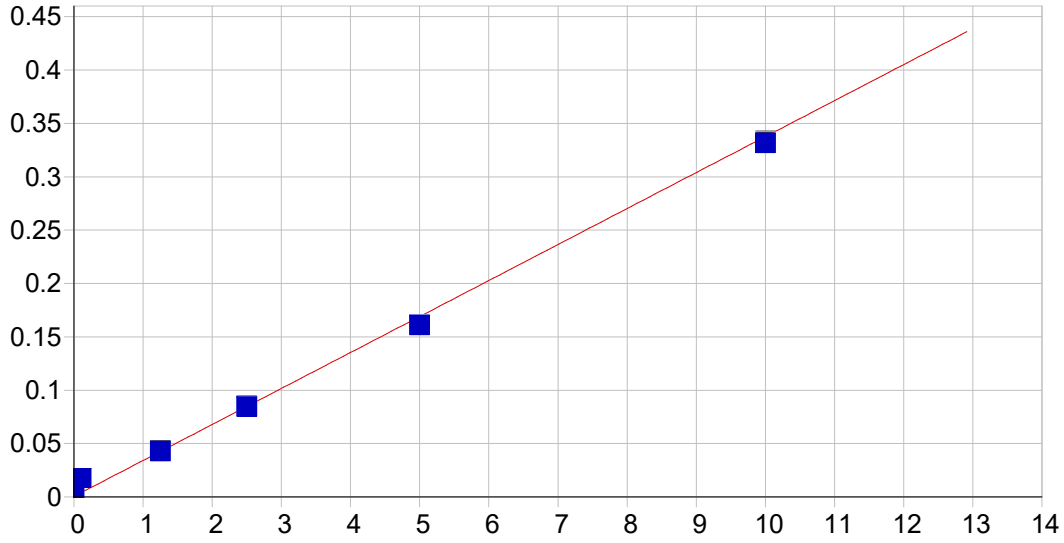


S 182.034 {485}

Date of Fit:	1/12/2025 2:25:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000255	Re-Slope:	1.000000
A1 (Gain):	0.034455	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999515	Status:	OK.
Std Error of Est:	0.000057		
Predicted MDL:	0.004135		
Predicted MQL:	0.013784		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	.00026	.000	1
S1	.10000	.09022	-.010	-9.78	.00336	.000	1
S3	2.5000	2.4521	-.048	-1.92	.08485	.000	1
S4	5.0000	4.8478	-.152	-3.04	.16751	.001	1
S5	10.000	10.280	.280	2.80	.35491	.002	1
S2	1.2500	1.1795	-.071	-5.64	.04095	.000	1



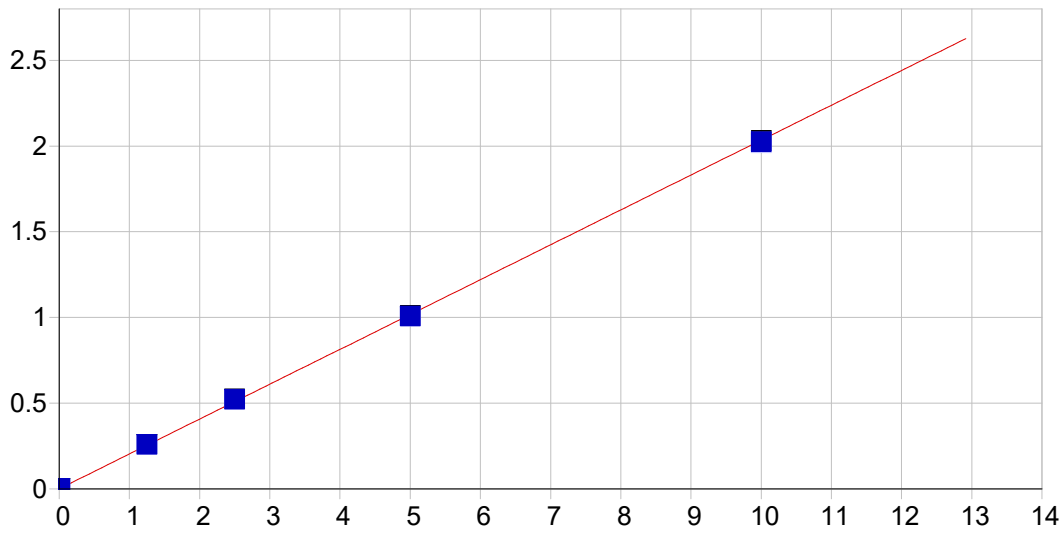
Si 251.611 {134}

Date of Fit:	1/12/2025 2:25:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000431	Re-Slope:	1.000000
A1 (Gain):	0.033721	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.957660	Status:	OK.
Std Error of Est:	0.000540		
Predicted MDL:	0.008065		
Predicted MQL:	0.026885		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00041	-.000	.000	.00042	.000	1
S1	.10000	.51201	.412	412.	.01770	.000	1
S3	2.5000	2.4978	-.002	-.088	.08491	.000	1
S4	5.0000	4.7626	-.237	-4.75	.16154	.000	1
S5	10.000	9.8239	-.176	-1.76	.33272	.001	1
S2	1.2500	1.2547	.005	.380	.04287	.000	1

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4



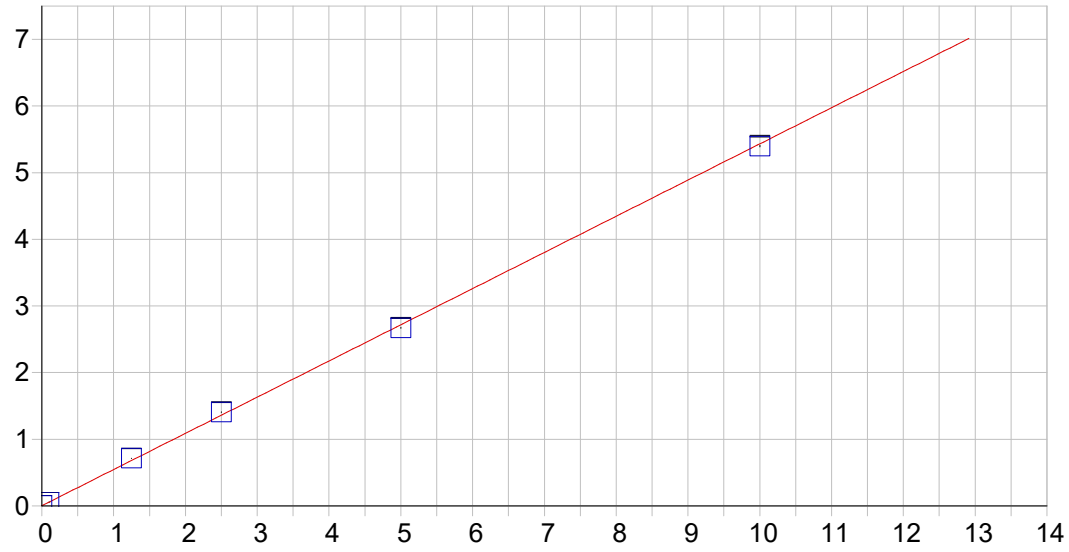
Sn 189.989 {478}

Date of Fit:	1/12/2025 2:25:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000428	Re-Slope:	1.000000
A1 (Gain):	0.203386	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999924	Status:	OK.
Std Error of Est:	0.000035		
Predicted MDL:	0.000814		
Predicted MQL:	0.002714		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00043	.000	1
S1	.00700	.00646	-.001	-7.72	.00168	.000	1
S3	2.5000	2.5679	.068	2.72	.52113	.002	1
S4	5.0000	4.9577	-.042	-.845	1.0056	.003	1
S5	10.000	9.9534	-.047	-.466	2.0185	.008	1
S2	1.2500	1.2715	.021	1.72	.25825	.001	1

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4



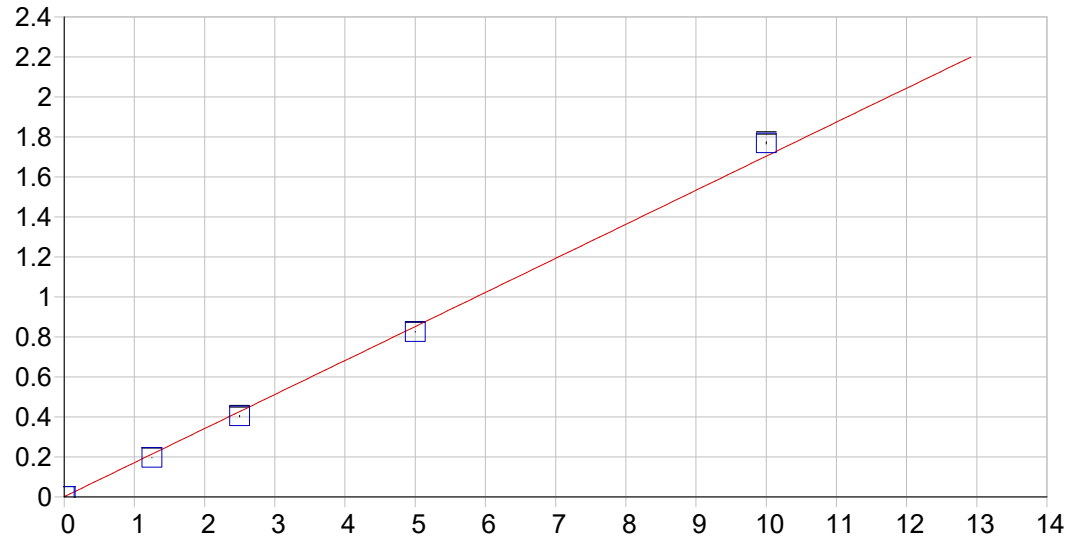
Ti 336.121 {100}

Date of Fit:	1/12/2025 2:25:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003021	Re-Slope:	1.000000
A1 (Gain):	0.542944	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999795	Status:	OK.
Std Error of Est:	0.000584		
Predicted MDL:	0.001109		
Predicted MQL:	0.003698		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00302	.000	1
S1	.10000	.10438	.004	4.38	.05969	.000	1
S3	2.5000	2.5849	.085	3.40	1.4065	.006	1
S4	5.0000	4.9139	-.086	-1.72	2.6710	.008	1
S5	10.000	9.9379	-.062	-.621	5.3987	.011	1
S2	1.2500	1.3089	.059	4.71	.71367	.001	1

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4



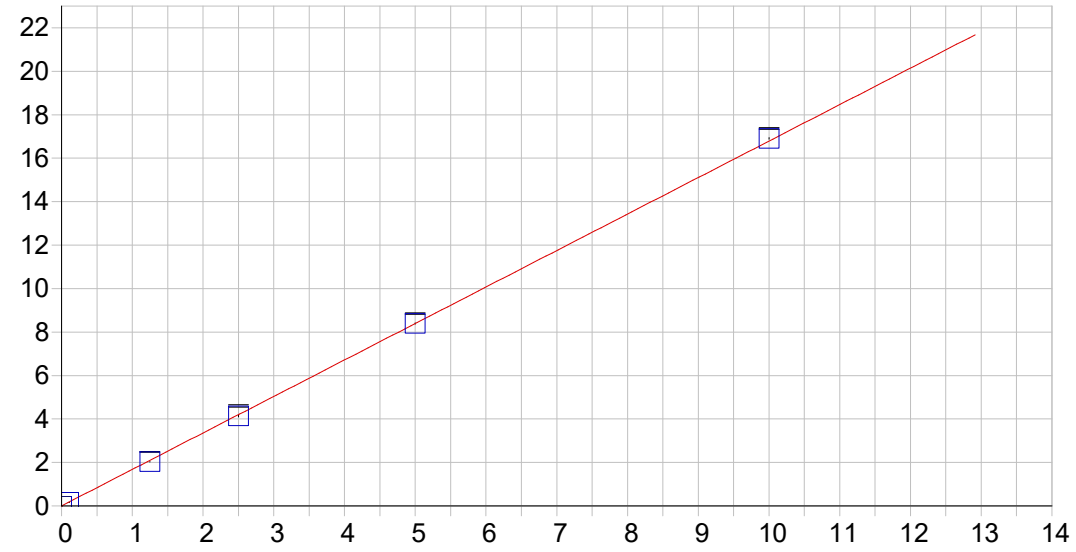
Li 670.784 { 50}

Date of Fit:	1/12/2025 2:25:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001078	Re-Slope:	1.000000
A1 (Gain):	0.170218	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999049	Status:	OK.
Std Error of Est:	0.000153		
Predicted MDL:	0.001607		
Predicted MQL:	0.005358		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00108	.000	1
S5	10.000	10.393	.393	3.93	1.7701	.006	1
S4	5.0000	4.8423	-.158	-3.15	.82532	.001	1
S3	2.5000	2.3673	-.133	-5.31	.40404	.003	1
S1	.01500	.01471	-.000	-1.95	.00358	.000	1
S2	1.2500	1.1481	-.102	-8.16	.19650	.001	1

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4



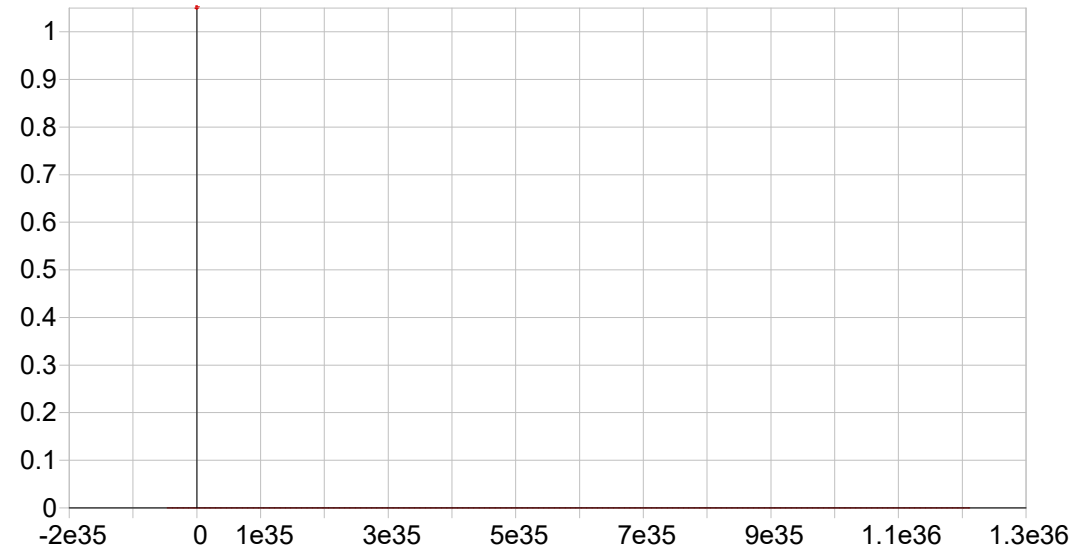
Sr 407.771 { 83}

Date of Fit:	1/12/2025 2:25:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000245	Re-Slope:	1.000000
A1 (Gain):	1.678675	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999936	Status:	OK.
Std Error of Est:	0.001009		
Predicted MDL:	0.000091		
Predicted MQL:	0.000302		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00026	.000	1
S1	.10000	.09512	-.005	-4.88	.15991	.002	1
S3	2.5000	2.4683	-.032	-1.27	4.1437	.053	1
S4	5.0000	5.0022	.002	.044	8.3973	.032	1
S5	10.000	10.074	.074	.736	16.911	.036	1
S2	1.2500	1.2108	-.039	-3.14	2.0328	.010	1

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

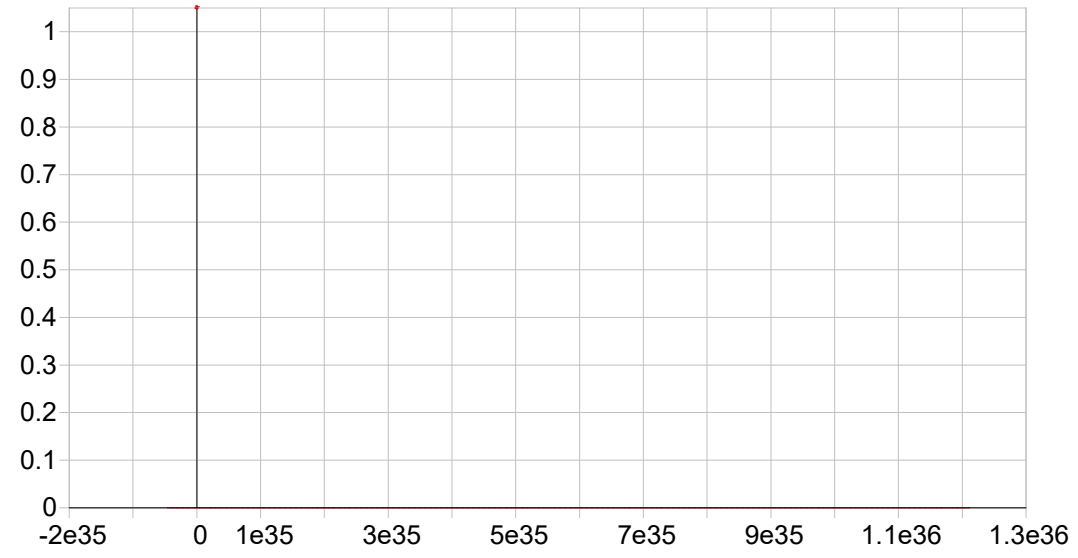


Y 224.306 {450}*

Date of Fit:	1/12/2025 1:40:00	Type of Fit:	Linear	Weighting:	1/Conc

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

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



Y 360.073 { 94}*

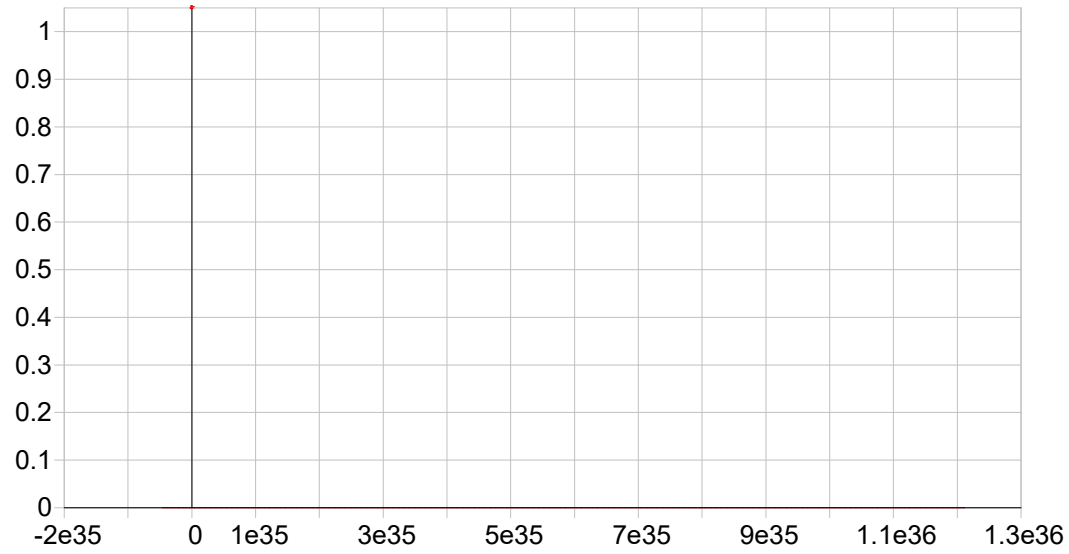
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

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

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

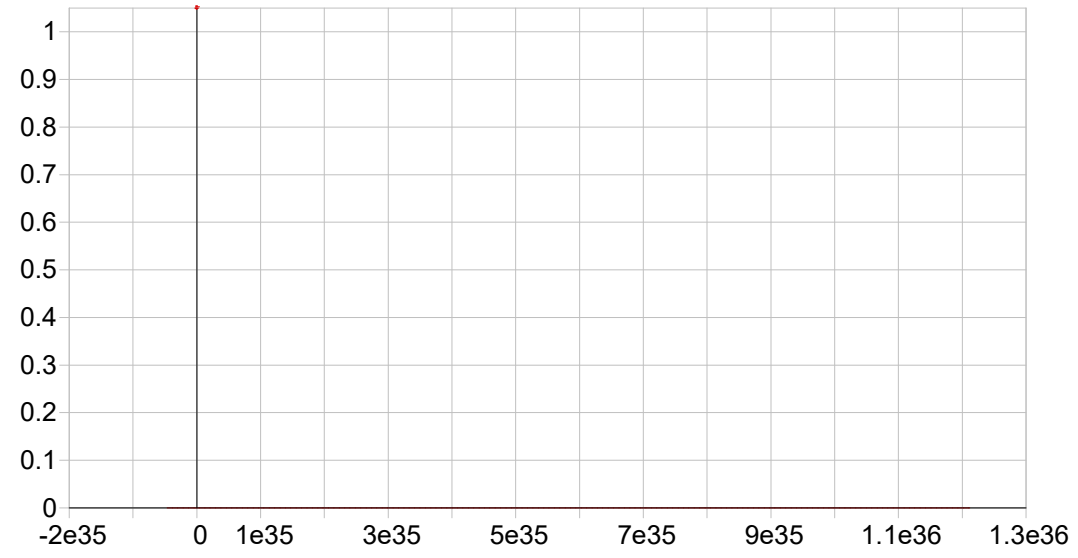


Y 371.030 { 91}*

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

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

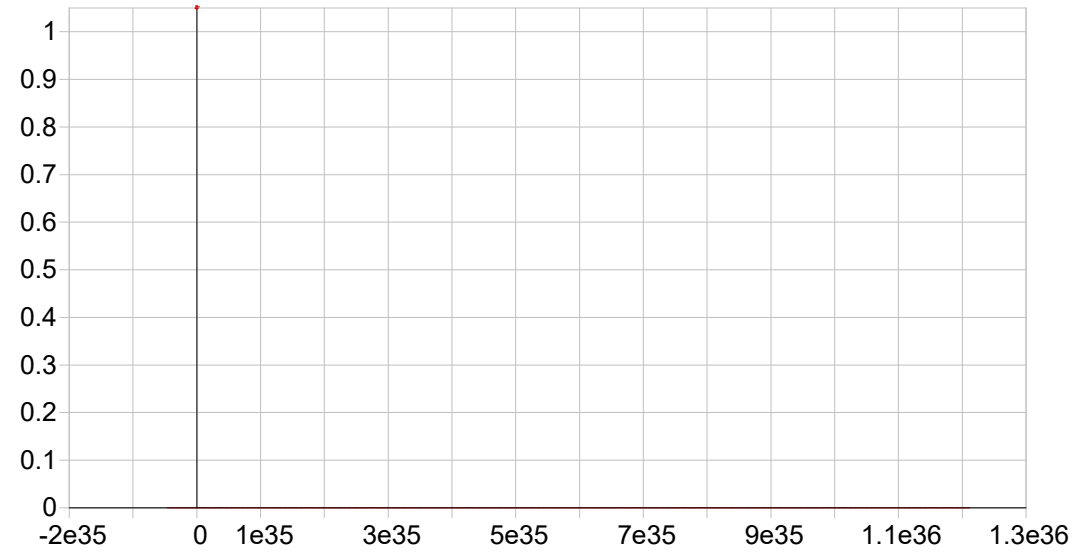
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



Y 224.306 {150}*

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

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



In 230.606 {446}*

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

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

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

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: S0 Acquired: 1/12/2025 2:00:21 Type: Cal
Method: EPA SFAM01.0(v33) 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	**-.00004**	**.00018**	**-.00015**	**.00041**	**.00043**	**.00010**	**.01364**	**.00008**
Stddev	.00016	.00004	.00064	.00041	.00028	.00003	.00031	.00019
%RSD	447.78	19.505	434.56	99.495	65.764	24.715	2.2613	222.23
#1	-.00001	.00019	.00033	.00081	.00014	.00009	.01393	-.00012
#2	-.00021	.00014	.00011	.00000	.00045	.00008	.01332	.00012
#3	.00011	.00021	-.00088	.00041	.00070	.00013	.01367	.00025

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00003**	**.00002**	**.00004**	**-.00005**	**.00077**	**.00000**	**.00001**	**-.00006**
Stddev	.00024	.00015	.00004	.00018	.00023	.00001	.00001	.00001
%RSD	970.55	740.53	100.08	362.47	29.530	658.09	67.962	14.480
#1	.00029	-.00007	.00003	.00016	.00092	-.00000	.00001	-.00006
#2	-.00003	-.00006	.00001	-.00019	.00051	-.00000	.00002	-.00006
#3	-.00019	.00020	.00008	-.00012	.00089	.00001	.00001	-.00007

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00004**	**-.00038**	**-.00294**	**.00057**	**.00236**	**.00753**	**-.00171**	**.00415**
Stddev	.00007	.00010	.00094	.00007	.00046	.00037	.00015	.00050
%RSD	165.28	26.360	32.033	11.813	19.420	4.9315	8.9684	12.176
#1	.00002	-.00028	-.00241	.00056	.00188	.00788	-.00172	.00469
#2	-.00011	-.00048	-.00403	.00064	.00240	.00757	-.00156	.00405
#3	-.00003	-.00037	-.00239	.00050	.00280	.00714	-.00186	.00370

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00001**	**.00026**	**.00042**	**.00043**	**.00302**	**.00108**	**.00026**
Stddev	.00001	.00007	.00029	.00008	.00010	.00010	.00014
%RSD	212.21	29.143	68.597	19.689	3.4696	9.3769	55.418
#1	-.00001	.00019	.00016	.00045	.00289	.00117	.00014
#2	.00002	.00023	.00073	.00033	.00308	.00109	.00022
#3	.00001	.00034	.00036	.00050	.00307	.00097	.00042

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: S0 Acquired: 1/12/2025 2:00:21 Type: Cal
Method: EPA SFAM01.0(v33) 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	2478.9	59243.	8063.5	2751.9	3509.8
Stddev	3.7	158.	12.5	13.3	8.4
%RSD	.15057	.26695	.15555	.48351	.23981
#1	2479.0	59144.	8064.0	2757.5	3505.6
#2	2482.7	59159.	8075.7	2736.7	3519.5
#3	2475.2	59425.	8050.7	2761.4	3504.4

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: S1 Acquired: 1/12/2025 2:04:35 Type: Cal
Method: EPA SFAM01.0(v33) 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	**.00080**	**.00338**	**.00277**	**.00368**	**.00940**	**.00300**	**.10040**	**.03096**
Stddev	.00008	.00009	.00085	.00018	.00015	.00001	.00094	.00046
%RSD	10.020	2.6882	30.860	4.7670	1.6332	.34336	.93818	1.4861
#1	.00071	.00346	.00356	.00362	.00927	.00299	.10108	.03100
#2	.00087	.00339	.00288	.00387	.00934	.00300	.10079	.03049
#3	.00081	.00328	.00186	.00353	.00957	.00301	.09932	.03140

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	**.01867**	**.04792**	**.00215**	**.05248**	**.00706**	**.00062**	**.00128**	**.01559**
Stddev	.00012	.00036	.00001	.00043	.00005	.00002	.00001	.00010
%RSD	.64766	.75774	.54415	.82162	.67390	3.8427	.56361	.66294
#1	.01857	.04829	.00216	.05237	.00701	.00059	.00128	.01564
#2	.01864	.04789	.00214	.05212	.00711	.00064	.00129	.01567
#3	.01881	.04757	.00214	.05296	.00705	.00062	.00127	.01548

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	**.03057**	**.00288**	**.03106**	**.01029**	**.18127**	**.02640**	**-.00112**	**.00356**
Stddev	.00031	.00003	.00129	.00016	.00164	.00033	.00007	.00043
%RSD	1.0166	.90797	4.1583	1.5061	.90449	1.2379	6.6605	11.971
#1	.03035	.00285	.02957	.01012	.17950	.02635	-.00117	.00374
#2	.03093	.00289	.03168	.01042	.18154	.02674	-.00116	.00386
#3	.03045	.00290	.03191	.01034	.18275	.02610	-.00104	.00307

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00829**	**.00336**	**.01770**	**.00168**	**.05969**	**.00358**	**.15991**
Stddev	.00029	.00007	.00014	.00013	.00014	.00004	.00156
%RSD	3.4790	2.0419	.76400	7.9451	.23109	1.2325	.97780
#1	.00816	.00335	.01775	.00171	.05958	.00362	.16154
#2	.00809	.00344	.01780	.00180	.05965	.00353	.15978
#3	.00862	.00330	.01754	.00153	.05985	.00359	.15842

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Inst Id :P4

Sample Name: S1 Acquired: 1/12/2025 2:04:35 Type: Cal
Method: EPA SFAM01.0(v33) 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	2456.2	58181.	8007.9	2717.8	3419.1
Stddev	5.4	406.	37.7	10.8	7.0
%RSD	.21795	.69800	.47083	.39677	.20397
#1	2450.3	57712.	8011.0	2716.7	3411.6
#2	2457.6	58421.	8044.0	2707.6	3420.6
#3	2460.8	58410.	7968.8	2729.1	3425.3

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: S2 Acquired: 1/12/2025 2:08:48 Type: Cal
Method: EPA SFAM01.0(v33) 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	**.10412**	**.15698**	**1.8298**	**.11211**	**.20065**	**.48013**	**1.1202**	**.76554**
Stddev	.00029	.00036	.0048	.00024	.00102	.00249	.0063	.00385
%RSD	.27599	.22992	.26408	.21245	.50661	.51829	.56494	.50293
#1	.10392	.15739	1.8317	.11186	.20071	.48231	1.1268	.76168
#2	.10400	.15670	1.8243	.11214	.19961	.47742	1.1142	.76938
#3	.10445	.15685	1.8333	.11233	.20164	.48067	1.1197	.76556

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	**2.3825**	**.59377**	**.81793**	**.67327**	**.92258**	**.22432**	**.31728**	**.20482**
Stddev	.0058	.00197	.00083	.00177	.00277	.00093	.00118	.00060
%RSD	.24457	.33226	.10129	.26315	.30012	.41286	.37170	.29273
#1	2.3823	.59577	.81726	.67336	.92570	.22496	.31843	.20544
#2	2.3768	.59183	.81767	.67145	.92163	.22325	.31607	.20424
#3	2.3885	.59372	.81885	.67499	.92041	.22474	.31733	.20478

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	**.48294**	**.09708**	**.24654**	**.11670**	**10.368**	**.15400**	**.07829**	**.70422**
Stddev	.00096	.00005	.00251	.00041	.034	.00098	.00044	.00507
%RSD	.19879	.05072	1.0189	.35008	.32676	.63644	.56565	.71940
#1	.48246	.09702	.24463	.11669	10.344	.15465	.07880	.70193
#2	.48233	.09712	.24561	.11711	10.352	.15287	.07803	.71003
#3	.48405	.09710	.24939	.11629	10.406	.15448	.07804	.70071

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.0563**	**.04095**	**.04287**	**.25825**	**.71367**	**.19650**	**2.0328**
Stddev	.0036	.00018	.00027	.00051	.00110	.00096	.0102
%RSD	.33843	.43661	.63794	.19804	.15477	.48885	.50364
#1	1.0539	.04088	.04318	.25785	.71488	.19751	2.0437
#2	1.0546	.04082	.04268	.25807	.71340	.19560	2.0234
#3	1.0604	.04115	.04275	.25882	.71272	.19638	2.0313

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: S2 Acquired: 1/12/2025 2:08:48 Type: Cal
Method: EPA SFAM01.0(v33) 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	2304.7	55522.	7882.9	2611.1	3090.0
Stddev	5.1	66.	32.2	5.8	6.5
%RSD	.22091	.11841	.40904	.22050	.21048
#1	2303.0	55457.	7903.2	2608.7	3083.9
#2	2310.5	55589.	7845.8	2617.7	3096.8
#3	2300.7	55521.	7899.9	2606.9	3089.4

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: S3 Acquired: 1/12/2025 2:12:43 Type: Cal
Method: EPA SFAM01.0(v33) 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	.21489	.31282	3.6748	.22965	.41235	.98357	2.2735	1.5064
Stddev	.00033	.00163	.0019	.00091	.00099	.00568	.0213	.0054
%RSD	.15447	.52073	.05142	.39726	.23901	.57710	.93590	.36089
#1	.21467	.31100	3.6728	.22870	.41286	.97942	2.2592	1.5084
#2	.21474	.31332	3.6751	.22971	.41122	.99004	2.2979	1.5003
#3	.21528	.31415	3.6765	.23052	.41298	.98124	2.2633	1.5106

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4.7754	1.2032	1.6152	1.3511	1.8312	.45141	.64280	.41878
Stddev	.0049	.0081	.0024	.0019	.0028	.00229	.00541	.00242
%RSD	.10155	.67626	.14932	.13960	.15472	.50678	.84177	.57673
#1	4.7701	1.1967	1.6125	1.3511	1.8281	.44993	.63940	.41664
#2	4.7764	1.2124	1.6159	1.3492	1.8321	.45405	.64904	.42140
#3	4.7797	1.2006	1.6171	1.3529	1.8335	.45027	.63997	.41829

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	.96597	.19594	.49571	.23090	20.186	.31140	.16395	1.3779
Stddev	.00007	.00076	.00144	.00207	.051	.00184	.00049	.0027
%RSD	.00687	.38699	.29050	.89531	.25306	.59149	.29693	.19934
#1	.96596	.19518	.49606	.23014	20.224	.31011	.16370	1.3773
#2	.96590	.19670	.49413	.23324	20.206	.31351	.16364	1.3755
#3	.96603	.19594	.49695	.22931	20.128	.31059	.16451	1.3809

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.1362	.08485	.08491	.52113	1.4065	.40404	4.1437
Stddev	.0052	.00018	.00015	.00152	.0063	.00348	.0528
%RSD	.24463	.21053	.17975	.29194	.44795	.86197	1.2737
#1	2.1363	.08491	.08508	.51938	1.4021	.40151	4.0883
#2	2.1309	.08465	.08489	.52197	1.4137	.40801	4.1933
#3	2.1413	.08499	.08477	.52205	1.4037	.40260	4.1497

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: S3 Acquired: 1/12/2025 2:12:43 Type: Cal
Method: EPA SFAM01.0(v33) 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	**2177.5**	**53674.**	**7804.2**	**2527.9**	**2916.5**
Stddev	3.9	170.	25.6	10.3	1.7
%RSD	.17963	.31706	.32783	.40586	.05720
#1	2175.7	53866.	7818.3	2533.6	2916.2
#2	2181.9	53543.	7819.6	2516.1	2918.3
#3	2174.7	53612.	7774.7	2534.1	2915.0

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: S4 Acquired: 1/12/2025 2:16:44 Type: Cal
Method: EPA SFAM01.0(v33) 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	**.43391**	**.57807**	**7.1412**	**.45696**	**.83848**	**2.0081**	**4.5202**	**2.8440**
Stddev	.00184	.00369	.0145	.00232	.00414	.0031	.0186	.0127
%RSD	.42298	.63881	.20346	.50851	.49324	.15532	.41205	.44735
#1	.43270	.57844	7.1354	.45717	.83854	2.0045	4.5018	2.8583
#2	.43300	.57421	7.1305	.45453	.83432	2.0097	4.5196	2.8400
#3	.43602	.58157	7.1578	.45917	.84259	2.0101	4.5391	2.8338

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**9.1586**	**2.4033**	**3.1092**	**2.6120**	**3.5506**	**.89225**	**1.2715**	**.84419**
Stddev	.0224	.0026	.0054	.0063	.0092	.00064	.0018	.00066
%RSD	.24490	.10600	.17363	.24105	.25918	.07216	.14463	.07839
#1	9.1492	2.4017	3.1133	2.6103	3.5536	.89158	1.2708	.84390
#2	9.1424	2.4020	3.1031	2.6067	3.5580	.89287	1.2701	.84372
#3	9.1842	2.4062	3.1112	2.6189	3.5403	.89231	1.2736	.84495

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	**1.8568**	**.39143**	**.95801**	**.43956**	**37.397**	**.63929**	**.31938**	**2.5556**
Stddev	.0048	.00109	.00411	.00125	.082	.00056	.00128	.0070
%RSD	.25711	.27857	.42874	.28412	.21818	.08747	.40017	.27533
#1	1.8550	.39258	.95918	.44090	37.430	.63864	.31942	2.5629
#2	1.8531	.39042	.96141	.43935	37.304	.63967	.31809	2.5550
#3	1.8622	.39129	.95345	.43843	37.457	.63955	.32064	2.5488

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4.2792**	**.16751**	**.16154**	**1.0056**	**2.6710**	**.82532**	**8.3973**
Stddev	.0182	.00075	.00017	.0031	.0077	.00131	.0318
%RSD	.42554	.44478	.10590	.30516	.28887	.15843	.37881
#1	4.2782	.16733	.16136	1.0042	2.6773	.82389	8.4262
#2	4.2615	.16687	.16171	1.0035	2.6733	.82564	8.4025
#3	4.2979	.16832	.16154	1.0091	2.6624	.82644	8.3632

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: S4 Acquired: 1/12/2025 2:16:44 Type: Cal
Method: EPA SFAM01.0(v33) 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	2026.5	51522.	7854.1	2408.9	2776.0
Stddev	7.5	120.	31.2	3.5	6.8
%RSD	.37033	.23314	.39674	.14404	.24466
#1	2027.2	51417.	7818.9	2405.2	2777.8
#2	2033.7	51653.	7865.1	2412.1	2781.7
#3	2018.7	51496.	7878.2	2409.2	2768.5

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: S5 Acquired: 1/12/2025 2:20:50 Type: Cal
Method: EPA SFAM01.0(v33) 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	**.97869**	**1.1752**	**14.395**	**1.0213**	**1.8898**	**4.1908**	**9.3019**	**5.7673**
Stddev	.00287	.0164	.051	.0043	.0064	.0484	.0688	.0116
%RSD	.29365	1.3941	.35749	.41613	.34067	1.1543	.73969	.20130
#1	.97832	1.1586	14.354	1.0199	1.8881	4.1349	9.2424	5.7702
#2	.97602	1.1757	14.380	1.0180	1.8844	4.2166	9.2859	5.7772
#3	.98173	1.1914	14.453	1.0261	1.8969	4.2207	9.3772	5.7546

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	**18.261**	**4.8388**	**6.0916**	**5.2656**	**7.2741**	**1.8000**	**2.5722**	**1.7557**
Stddev	.082	.0267	.0108	.0185	.0218	.0039	.0195	.0052
%RSD	.45079	.55075	.17725	.35078	.29925	.21713	.75635	.29355
#1	18.189	4.8140	6.0816	5.2535	7.2847	1.7976	2.5691	1.7513
#2	18.243	4.8354	6.0902	5.2564	7.2885	1.7980	2.5545	1.7544
#3	18.351	4.8670	6.1031	5.2868	7.2490	1.8045	2.5931	1.7614

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.7177**	**.81864**	**1.9719**	**.88770**	**66.411**	**1.3428**	**.66809**	**5.0254**
Stddev	.0117	.00081	.0036	.00103	.351	.0019	.00221	.0116
%RSD	.31424	.09839	.18313	.11579	.52789	.14472	.33051	.23139
#1	3.7072	.81777	1.9752	.88659	66.788	1.3412	.66621	5.0359
#2	3.7155	.81882	1.9725	.88788	66.095	1.3422	.66754	5.0273
#3	3.7303	.81935	1.9681	.88863	66.348	1.3450	.67052	5.0129

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**9.3773**	**.35491**	**.33272**	**2.0185**	**5.3987**	**1.7701**	**16.911**
Stddev	.0376	.00195	.00061	.0076	.0108	.0059	.036
%RSD	.40120	.54907	.18357	.37399	.19937	.33482	.21492
#1	9.3608	.35298	.33283	2.0125	5.4082	1.7688	16.934
#2	9.3507	.35487	.33327	2.0160	5.3871	1.7649	16.869
#3	9.4203	.35687	.33206	2.0270	5.4009	1.7766	16.929

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: S5 Acquired: 1/12/2025 2:20:50 Type: Cal
Method: EPA SFAM01.0(v33) 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	1744.8	49177.	7605.5	2273.1	2559.7
Stddev	4.0	129.	8.9	8.8	6.5
%RSD	.22671	.26132	.11747	.38598	.25420
#1	1745.9	49312.	7607.7	2267.7	2565.9
#2	1748.1	49160.	7595.6	2283.2	2560.3
#3	1740.4	49057.	7613.1	2268.4	2552.9

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: S6 Acquired: 1/12/2025 2:25:20 Type: Cal
Method: EPA SFAM01.0(v33) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S06 Custom ID2: Custom ID3:
Comment:

Elem	Al3961	Ca3736	Fe2598	Na8183
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**10.968**	**8.0450**	**4.8084**	**5.0439**
Stddev	.103	.0517	.0022	.0029
%RSD	.93723	.64321	.04648	.05664
#1	10.849	8.1027	4.8099	5.0420
#2	11.019	8.0298	4.8095	5.0472
#3	11.035	8.0026	4.8058	5.0426

Int. Std.	Y_3600	Y_3710
Units	Cts/S	Cts/S
Avg	**48083.**	**7762.8**
Stddev	105.	37.9
%RSD	.21781	.48830
#1	48136.	7719.0
#2	48150.	7783.9
#3	47962.	7785.5

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: ICV001 Acquired: 1/12/2025 3:02:36 Type: Unk
Method: EPA SFAM01.0(v33) 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	**.9946769**	**1.045680**	**.9774159**	**1.075634**	**.9979457**	**2.429275**
Stddev	.0011523	.006585	.0039030	.001216	.0052911	.012605
%RSD	.1158444	.6297212	.3993209	.1130834	.5302041	.5188768
#1	.9939337	1.042663	.9729165	1.075842	1.002075	2.423416
#2	.9960043	1.041143	.9798888	1.074327	.991981	2.443743
#3	.9940928	1.053232	.9794425	1.076733	.999780	2.420666

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4914404**	**.5110740**	**.4925907**	**9.291452**	**.5393639**	**.4967001**
Stddev	.0054284	.0029056	.0016003	.047320	.0008598	.0010139
%RSD	1.104592	.5685270	.3248693	.5092901	.1594120	.2041345
#1	.4946485	.5122235	.4908436	9.290038	.5401927	.4958610
#2	.4945000	.5077695	.4929432	9.339464	.5384761	.4964125
#3	.4851728	.5132289	.4939853	9.244855	.5394230	.4978268

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4929858**	**9.522401**	**.5037721**	**5.745637**	**.5055010**	**.2307447**
Stddev	.0044268	.031386	.0036976	.013973	.0013807	.0006120
%RSD	.8979570	.3296037	.7339813	.2431899	.2731246	.2652208
#1	.4929288	9.499537	.5066697	5.746008	.5039121	.2301526
#2	.4974408	9.558185	.5050389	5.759421	.5061825	.2313748
#3	.4885877	9.509482	.4996076	5.731483	.5064084	.2307065

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.793375**	**.5085187**	**1.082581**	**9.949119**	F **.0036342**	F **.0386892**
Stddev	.029237	.0034847	.004256	.061066	.0006137	.0006841
%RSD	.2985425	.6852657	.3931394	.6137809	16.88756	1.768268
#1	9.812132	.5125425	1.087493	9.940507	.0029807	.0380326
#2	9.808306	.5064937	1.079990	10.01403	.0037234	.0393978
#3	9.759687	.5065200	1.080260	9.89282	.0041983	.0386373

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: ICV001 Acquired: 1/12/2025 3:02:36 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV001 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.000228	F .0042631	F .0047065	F -.001437	F -.001550	F .0022238
Stddev	.000079	.0009576	.0067424	.000614	.000465	.0011982
%RSD	34.62230	22.46188	143.2576	42.68978	29.97634	53.88126
#1	-.000142	.0049796	.0087078	-.001365	-.001022	.0028614
#2	-.000297	.0031755	.0084895	-.002084	-.001897	.0008416
#3	-.000246	.0046343	-.003078	-.000863	-.001731	.0029684

Elem	Sr4077
Units	ppm
Avg	F .0010379
Stddev	.0000430
%RSD	4.143484
#1	.0010470
#2	.0010757
#3	.0009911

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2412.579	57283.11	7918.362	2669.891	3346.378
Stddev	10.200	74.83	35.295	6.701	4.336
%RSD	.4227714	.1306403	.4457324	.2509995	.1295680
#1	2403.209	57230.54	7905.385	2664.773	3342.735
#2	2411.083	57250.01	7958.308	2667.424	3345.224
#3	2423.444	57368.79	7891.393	2677.476	3351.173

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: ICB001 Acquired: 1/12/2025 3:06:32 Type: Unk
Method: EPA SFAM01.0(v33) 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	**-.000148**	**.0000345**	**.0000225**	**-.000826**	**.0003216**	**-.010654**	**.0003945**
Stddev	.001488	.0027077	.0002362	.002437	.0006580	.003303	.0007554
%RSD	1006.723	7854.124	1051.745	294.8507	204.6069	31.00098	191.5145
#1	-.001672	-.002952	-.000248	-.003401	.0009180	-.014052	-.000389
#2	.001302	.000725	.000185	-.000522	-.000384	-.010455	.001118
#3	-.000073	.002330	.000131	.001444	.000431	-.007455	.000455

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000374**	**.0000033**	**.0059332**	**.0000848**	**-.000286**	**-.001544**	**.0112120**
Stddev	.0000218	.0000555	.0048771	.0000735	.000147	.001298	.0091344
%RSD	58.25587	1671.269	82.20039	86.73318	51.27425	84.10991	81.46997
#1	.0000386	.0000292	.0052803	.0000020	-.000307	-.001904	.0067300
#2	.0000151	-.000060	.0014154	.0001425	-.000420	-.002624	.0217216
#3	.0000586	.000041	.0111038	.0001098	-.000130	-.000103	.0051843

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000037**	**.0078993**	**-.000323**	**-.000002**	**.0259238**	**-.002670**	**-.000509**
Stddev	.0003593	.0173344	.000358	.000253	.1364928	.000596	.000171
%RSD	9678.657	219.4417	110.7568	13057.50	526.5159	22.30888	33.57770
#1	-.000180	.0251771	.000062	.000207	-.116793	-.002832	-.000629
#2	-.000227	-.009491	-.000386	-.000283	.039366	-.002010	-.000313
#3	.000418	.008012	-.000646	.000071	.155198	-.003168	-.000584

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1350010**	**-.000220**	**-.000525**	**-.000009**	**.0002616**	**.0077664**	**-.000080**
Stddev	.0333214	.000623	.000146	.000103	.0038290	.0051579	.000992
%RSD	24.68235	283.1398	27.83635	1184.196	1463.767	66.41258	1241.388
#1	.1716665	-.000425	-.000594	.000082	-.003215	.0122861	.000934
#2	.1065665	.000480	-.000358	.000013	.004366	.0088656	-.000125
#3	.1267699	-.000715	-.000625	-.000121	-.000366	.0021475	-.001048

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: ICB001 Acquired: 1/12/2025 3:06:32 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB001 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**-.000084**	**.0014433**	**-.000083**
Stddev	.000972	.0004775	.000037
%RSD	1159.113	33.08346	45.09647
#1	-.000791	.0016692	-.000079
#2	.001024	.0017658	-.000122
#3	-.000485	.0008947	-.000047

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2422.887**	**58669.91**	**7891.113**	**2716.786**	**3424.183**
Stddev	3.702	119.23	15.087	2.311	8.230
%RSD	.1527944	.2032237	.1911858	.0850729	.2403446
#1	2426.030	58541.61	7890.974	2714.793	3419.133
#2	2423.824	58690.80	7876.096	2719.319	3433.679
#3	2418.806	58777.31	7906.269	2716.245	3419.736

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: ICSA001 Acquired: 1/12/2025 3:10:43 Type: Unk
Method: EPA SFAM01.0(v33) 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	**.0092210**	**.0038221**	**.0064876**	**.0197744**	**-.003383**	**237.5678**
Stddev	.0014226	.0013285	.0006125	.0015358	.003334	.5979
%RSD	15.42801	34.75838	9.440889	7.766482	98.54607	.2516921
#1	.0080575	.0033876	.0068441	.0191035	.000117	237.1346
#2	.0087986	.0053134	.0057804	.0186883	-.006521	237.3187
#3	.0108071	.0027652	.0068384	.0215315	-.003746	238.2500

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0089833**	**-.000717**	**.0002230**	**246.1213**	**.0602934**	**.0008052**
Stddev	.0004482	.000033	.0000543	.4477	.0002688	.0001899
%RSD	4.989301	4.615706	24.33383	.1819134	.4457579	23.58849
#1	.0087424	-.000692	.0001862	245.6863	.0601241	.0009277
#2	.0087070	-.000705	.0001974	246.0970	.0601527	.0005864
#3	.0095004	-.000755	.0002853	246.5808	.0606033	.0009014

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.007116**	**100.2606**	**.0080832**	**247.7310**	**.0036183**	**-.000660**
Stddev	.002906	.3415	.0005734	.7961	.0002794	.000222
%RSD	40.83735	.3406137	7.093807	.3213413	7.723385	33.54545
#1	-.009241	99.9479	.0078063	247.0143	.0036692	-.000796
#2	-.008301	100.2089	.0087426	247.5908	.0033169	-.000781
#3	-.003804	100.6250	.0077008	248.5878	.0038687	-.000405

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0505446**	**-.007504**	**-.011113**	**.0917417**	**.0056995**	F **.4144703**
Stddev	.2581158	.000442	.000411	.0255642	.0012585	.0022064
%RSD	510.6696	5.891431	3.696871	27.86542	22.08155	.5323320
#1	-.087570	-.006994	-.011248	.1012752	.0055040	.4122660
#2	-.109128	-.007762	-.011440	.0627806	.0045502	.4144662
#3	.348331	-.007757	-.010652	.1111692	.0070443	.4166787

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: ICSA001 Acquired: 1/12/2025 3:10:43 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA001 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004817	.0195690	.0006366	-.002968	-.002491	.0064611
Stddev	.0008268	.0069705	.0075417	.000835	.001090	.0006696
%RSD	171.6493	35.61998	1184.736	28.14219	43.74641	10.36389
#1	.0004423	.0201294	.0067638	-.003160	-.003413	.0066075
#2	-.000325	.0123352	.0029321	-.003690	-.001288	.0070454
#3	.001327	.0262423	-.007786	-.002053	-.002772	.0057304

Elem	Sr4077
Units	ppm
Avg	F .1012963
Stddev	.0002656
%RSD	.2622421
#1	.1014176
#2	.1009917
#3	.1014797

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2237.715	51803.61	7787.438	2436.851	2895.637
Stddev	1.595	148.97	18.357	5.876	3.920
%RSD	.0712906	.2875652	.2357209	.2411378	.1353604
#1	2239.555	51880.11	7766.787	2432.450	2898.784
#2	2236.715	51898.78	7801.900	2434.580	2896.881
#3	2236.875	51631.93	7793.627	2443.524	2891.247

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: ICSAB001 Acquired: 1/12/2025 3:14:49 Type: Unk
Method: EPA SFAM01.0(v33) 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	**.1015929**	**.1115718**	**.0537167**	**.0649639**	**.5282656**	**229.7464**
Stddev	.0030573	.0024117	.0009977	.0067616	.0019098	.6425
%RSD	3.009347	2.161523	1.857333	10.40818	.3615160	.2796392
#1	.1050536	.1089988	.0526566	.0581322	.5300208	229.0390
#2	.0992590	.1137808	.0546373	.0716531	.5285442	230.2936
#3	.1004659	.1119358	.0538562	.0651065	.5262319	229.9067

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4969572**	**.5100994**	**1.010402**	**237.5178**	**.5901440**	**.5100646**
Stddev	.0030181	.0009981	.000765	.6681	.0031291	.0003994
%RSD	.6073253	.1956730	.0756766	.2812845	.5302213	.0783071
#1	.4935298	.5112477	1.009526	236.8116	.5926881	.5096129
#2	.4981244	.5096101	1.010934	238.1398	.5910939	.5102099
#3	.4992175	.5094403	1.010747	237.6019	.5866501	.5103711

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4821943**	**96.83327**	**.4859303**	**239.5947**	**1.024484**	**.1966472**
Stddev	.0021024	.28478	.0026685	.6594	.002174	.0012239
%RSD	.4360040	.2940898	.5491431	.2752343	.2121588	.6223692
#1	.4821389	96.54578	.4841569	238.9983	1.024670	.1961669
#2	.4843239	97.11526	.4846348	240.3029	1.022223	.1980383
#3	.4801202	96.83876	.4889991	239.4830	1.026558	.1957363

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.237616**	**.4994987**	**1.094894**	**-.170742**	**.0096384**	F **.3959560**
Stddev	.155465	.0016663	.003828	.056852	.0019712	.0014166
%RSD	65.42709	.3335850	.3495813	33.29687	20.45167	.3577735
#1	-.386335	.5009275	1.092362	-.218438	.0093086	.3950113
#2	-.250329	.4976684	1.099298	-.107831	.0117537	.3975849
#3	-.076185	.4999002	1.093024	-.185956	.0078529	.3952719

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: ICSAB001 Acquired: 1/12/2025 3:14:49 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB001 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003931	.0247165	-.003040	-.004316	-.004709	.0049605
Stddev	.0008271	.0114461	.007408	.001047	.000402	.0005882
%RSD	210.4189	46.30942	243.6577	24.26037	8.526428	11.85803
#1	.0007695	.0312796	-.002755	-.004519	-.004887	.0054402
#2	-.000555	.0313701	-.010586	-.005247	-.004250	.0043042
#3	.000965	.0114998	.004221	-.003182	-.004992	.0051371

Elem	Sr4077
Units	ppm
Avg	.0973618
Stddev	.0002210
%RSD	.2269331
#1	.0971214
#2	.0974082
#3	.0975559

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2196.560	53649.96	7751.531	2498.494	2843.462
Stddev	3.088	339.14	53.533	17.446	6.931
%RSD	.1406049	.6321255	.6906177	.6982786	.2437592
#1	2197.723	53438.28	7700.444	2496.972	2851.465
#2	2193.059	53470.47	7746.934	2481.858	2839.566
#3	2198.898	54041.12	7807.215	2516.651	2839.356

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV001 Acquired: 1/12/2025 3:30:12 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV001 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.794878**	**4.897500**	**24.62989**	**4.798987**	**4.769958**	**392.3392**
Stddev	.002960	.025559	.04163	.011184	.007187	4.4660
%RSD	.0617410	.5218695	.1690202	.2330492	.1506819	1.138312
#1	4.794526	4.869040	24.58981	4.808696	4.775444	396.8773
#2	4.792110	4.918495	24.62695	4.786758	4.761821	387.9489
#3	4.797999	4.904965	24.67291	4.801508	4.772607	392.1913

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.19753**	**.5066335**	**2.481441**	**396.4780**	**15.43387**	**2.498264**
Stddev	.02289	.0025471	.006248	.4452	.04663	.005349
%RSD	.2244740	.5027548	.2518006	.1123011	.3021534	.2141066
#1	10.21831	.5068830	2.475471	396.8869	15.43144	2.495171
#2	10.20129	.5090466	2.480916	396.5434	15.38850	2.495181
#3	10.17300	.5039707	2.487935	396.0037	15.48167	2.504441

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.17671**	**392.9511**	**15.17398**	**245.7192**	**2.497669**	**1.240395**
Stddev	.09727	2.1829	.09024	1.3010	.002535	.002127
%RSD	.6409383	.5555028	.5946804	.5294541	.1014916	.1714631
#1	15.27534	395.0802	15.23650	246.9528	2.494781	1.239786
#2	15.17394	390.7182	15.07053	244.3600	2.498698	1.238639
#3	15.08085	393.0551	15.21490	245.8450	2.499527	1.242760

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**414.6568**	**2.514675**	**15.90518**	**151.7170**	**5.055719**	F **6.008146**
Stddev	1.5612	.007718	.04907	.7717	.016895	.020231
%RSD	.3764942	.3069205	.3085286	.5086656	.3341754	.3367238
#1	416.3420	2.515306	15.87350	152.4494	5.036743	6.017360
#2	414.3688	2.522059	15.88032	150.9112	5.061286	6.022131
#3	413.2598	2.506661	15.96170	151.7904	5.069128	5.984949

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV001 Acquired: 1/12/2025 3:30:12 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV001 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.806183**	**4.984573**	**5.078224**	**4.961309**	**5.107710**	**5.078503**
Stddev	.007567	.023185	.011170	.008501	.021503	.032760
%RSD	.1574507	.4651414	.2199625	.1713390	.4209973	.6450680
#1	4.811159	4.958660	5.090075	4.951956	5.130164	5.100441
#2	4.797475	4.991703	5.067889	4.963404	5.105662	5.040846
#3	4.809916	5.003355	5.076709	4.968565	5.087304	5.094221

Elem	Sr4077
Units	ppm
Avg	**4.944690**
Stddev	.020017
%RSD	.4048220
#1	4.966363
#2	4.926896
#3	4.940812

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1918.604**	**49566.00**	**7389.120**	**2274.857**	**2609.990**
Stddev	4.135	198.86	24.488	11.995	4.909
%RSD	.2154994	.4012018	.3314093	.5273062	.1880941
#1	1915.324	49618.54	7399.475	2284.241	2611.776
#2	1923.248	49733.32	7361.155	2278.987	2613.757
#3	1917.239	49346.15	7406.730	2261.342	2604.438

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB001 Acquired: 1/12/2025 3:34:31 Type: Unk
Method: EPA SFAM01.0(v33) 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	.0004709	.0002196	.0007185	.0013679	-.000319	-.002489	-.002397
Stddev	.0012913	.0014262	.0016035	.0016950	.000239	.006619	.000448
%RSD	274.2134	649.5923	223.1682	123.9183	74.80414	265.9057	18.70657
#1	-.000157	.0007747	.0012367	.0017506	-.000446	-.009783	-.002204
#2	-.000386	-.001401	-.001080	-.000486	-.000044	.003135	-.002910
#3	.001956	.001285	.001999	.002839	-.000468	-.000820	-.002078

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000064	-.000016	.0047251	.0004253	-.000206	-.000829	.0116703
Stddev	.000045	.000090	.0013721	.0003438	.000047	.001031	.0020651
%RSD	70.52723	552.3666	29.03904	80.82048	22.90718	124.2707	17.69509
#1	-.000034	.000075	.0062336	.0008185	-.000260	-.001370	.0136916
#2	-.000116	-.000019	.0035512	.0002761	-.000187	-.001477	.0117554
#3	-.000042	-.000105	.0043906	.0001814	-.000171	.000359	.0095640

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002748	.0292015	-.000237	.0004080	.1496811	-.001146	.0001014
Stddev	.0002649	.0171309	.000129	.0002447	.2308244	.002814	.0001589
%RSD	96.39698	58.66441	54.41293	59.96716	154.2108	245.5858	156.7015
#1	.0002506	.0451514	-.000306	.0006373	.4011928	.001883	.0001156
#2	.0005509	.0110941	-.000317	.0001504	-.052470	-.001642	-.000064
#3	.0000228	.0313589	-.000088	.0004363	.100321	-.003679	.000253

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2774573	.0009247	.0047508	.0004008	.0014278	.0038576	-.000280
Stddev	.0492439	.0012749	.0002214	.0004173	.0011200	.0073161	.000668
%RSD	17.74829	137.8653	4.660621	104.1204	78.43847	189.6524	238.3465
#1	.3024420	.0013250	.0045834	.0008472	.0001356	.0075110	-.001050
#2	.3092006	.0019514	.0050018	.0000206	.0020290	-.004566	.000142
#3	.2207293	-.000502	.0046671	.0003345	.0021188	.008627	.000067

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB001 Acquired: 1/12/2025 3:34:31 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB001 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000219	.0019936	.0000464
Stddev	.000560	.0003880	.0000523
%RSD	255.1845	19.45977	112.5482
#1	-.000546	.0022546	.0000969
#2	-.000539	.0015478	-.000007
#3	.000427	.0021785	.000050

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2400.508	58595.23	7780.607	2700.838	3398.840
Stddev	3.398	92.00	20.904	10.072	6.349
%RSD	.1415738	.1570058	.2686661	.3729279	.1868048
#1	2398.492	58664.92	7795.078	2695.027	3400.291
#2	2398.601	58490.95	7756.641	2695.020	3391.891
#3	2404.432	58629.83	7790.102	2712.469	3404.338

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165909BL Acquired: 1/12/2025 3:38:40 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS909 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002657**	**.0001652**	**.0000844**	**.0006758**	**-.000771**	**-.008377**	**-.000860**
Stddev	.000964	.0001627	.0022400	.0040391	.001671	.012011	.000364
%RSD	36.28366	98.51572	2654.840	597.6867	216.6802	143.3795	42.28345
#1	-.003713	.0000835	.0026118	.0012832	.001082	-.019022	-.001068
#2	-.001823	.0000595	-.001656	.0043768	-.001232	.004645	-.001072
#3	-.002436	.0003526	-.000703	-.003633	-.002162	-.010754	-.000440

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000018**	**-.000009**	**.0036394**	**-.000172**	**-.000002**	**.0005790**	**.0059384**
Stddev	.000050	.000029	.0120931	.000194	.000085	.0016825	.0021323
%RSD	271.4341	313.7634	332.2845	113.0778	4388.498	290.5801	35.90659
#1	.000016	-.000041	.0130727	-.000396	.000092	-.000271	.0055979
#2	-.000075	-.000002	.0078392	-.000059	-.000025	.002517	.0082205
#3	.000004	.000015	-.009994	-.000060	-.000073	-.000509	.0039969

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000208**	**.0019905**	**-.000261**	**.0002595**	**.0595433**	**-.002927**	**-.000272**
Stddev	.000258	.0139855	.000452	.0001889	.1831820	.001119	.000161
%RSD	123.6650	702.6058	173.3007	72.78464	307.6450	38.23851	59.32720
#1	.000089	.0178558	-.000227	.0003271	-.144209	-.002092	-.000331
#2	-.000371	-.003332	.000173	.0004054	.210607	-.002491	-.000089
#3	-.000343	-.008552	-.000728	.0000461	.112231	-.004199	-.000394

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2072665**	**-.001469**	**.0022721**	**-.000087**	**.0033807**	**.0020700**	**-.000644**
Stddev	.0619869	.000890	.0004743	.000176	.0024098	.0011923	.000482
%RSD	29.90687	60.60075	20.87464	201.8607	71.28247	57.59767	74.75911
#1	.2531614	-.000860	.0020399	.000020	.0057076	.0011019	-.000897
#2	.2318861	-.002491	.0019586	-.000291	.0008958	.0017065	-.000089
#3	.1367520	-.001056	.0028177	.000009	.0035386	.0034018	-.000947

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165909BL Acquired: 1/12/2025 3:38:40 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS909 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0001034	.0017304	-.000021
Stddev	.0008181	.0007181	.000106
%RSD	790.9746	41.49752	505.3289
#1	.0004922	.0024274	-.000055
#2	.0006547	.0017706	-.000105
#3	-.000837	.0009930	.000098

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2414.100	58545.19	7860.174	2730.797	3398.850
Stddev	2.180	77.11	76.739	10.838	5.305
%RSD	.0902951	.1317173	.9763054	.3968777	.1560721
#1	2416.421	58478.32	7887.804	2735.572	3400.317
#2	2412.097	58629.54	7773.445	2718.391	3403.267
#3	2413.781	58527.69	7919.272	2738.427	3392.966

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165909BS Acquired: 1/12/2025 3:42:50 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS909 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0169787**	**.0518205**	**.0191097**	**.0625190**	**.1016724**	**.3619511**	**.3553716**
Stddev	.0016423	.0007107	.0007966	.0015627	.0004684	.0070118	.0039547
%RSD	9.672949	1.371470	4.168288	2.499523	.4607252	1.937231	1.112827
#1	.0163330	.0521397	.0183993	.0635176	.1014968	.3671803	.3589624
#2	.0157573	.0510062	.0199709	.0607182	.1022033	.3646898	.3560194
#3	.0188457	.0523157	.0189590	.0633213	.1013171	.3539833	.3511330

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0105635**	**.0099700**	**9.394682**	**.0212995**	**.0977026**	**.0523226**	**.1967677**
Stddev	.0000523	.0000441	.074987	.0004591	.0002765	.0009951	.0049071
%RSD	.4954193	.4419041	.7981881	2.155618	.2829550	1.901892	2.493836
#1	.0105111	.0099937	9.466986	.0208015	.0980201	.0528127	.1978689
#2	.0106158	.0099971	9.399787	.0217059	.0975730	.0529777	.1914037
#3	.0105637	.0099191	9.317272	.0213912	.0975148	.0511775	.2010307

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0280747**	**8.805290**	**.0794359**	**.0193266**	**10.15733**	**.1015200**	**.1442726**
Stddev	.0005010	.023408	.0000866	.0004520	.06259	.0014448	.0002762
%RSD	1.784687	.2658422	.1089611	2.338823	.6162462	1.423139	.1914453
#1	.0285973	8.827487	.0794623	.0194781	10.09005	.1031475	.1440586
#2	.0275984	8.807549	.0793393	.0188184	10.21384	.1010236	.1441748
#3	.0280286	8.780835	.0795062	.0196835	10.16810	.1003888	.1445844

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.629412**	**.0182708**	**.0018259**	**.0187228**	**.1718046**	**.9797246**	**.0132527**
Stddev	.073773	.0013993	.0003816	.0001071	.0036792	.0021678	.0011543
%RSD	.8549017	7.658388	20.90069	.5719165	2.141499	.2212654	8.709934
#1	8.692702	.0172146	.0022638	.0186257	.1742524	.9798781	.0129887
#2	8.647146	.0177400	.0015640	.0187050	.1675736	.9818116	.0122533
#3	8.548388	.0198578	.0016499	.0188377	.1735878	.9774842	.0145162

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165909BS Acquired: 1/12/2025 3:42:50 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS909 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1994093	.0260058	.1904538
Stddev	.0006113	.0016764	.0015148
%RSD	.3065614	6.446403	.7953864
#1	.1999450	.0262144	.1918866
#2	.1995396	.0275681	.1906064
#3	.1987434	.0242348	.1888684

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2436.510	56720.10	7848.980	2678.826	3379.562
Stddev	4.608	120.78	48.192	5.085	4.535
%RSD	.1891163	.2129464	.6139948	.1898158	.1342030
#1	2436.605	56642.88	7901.158	2683.722	3383.668
#2	2441.069	56658.13	7839.642	2679.186	3380.325
#3	2431.854	56859.29	7806.140	2673.571	3374.694

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165911BL Acquired: 1/12/2025 3:46:53 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS911 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005904**	**.0001134**	**-.000847**	**.0010234**	**-.000395**	**-.000355**	**-.000330**
Stddev	.0002811	.0028863	.001391	.0011995	.000335	.006398	.001007
%RSD	47.61909	2544.248	164.1470	117.2068	84.79564	1801.062	304.6717
#1	.0007368	-.003175	-.001307	.0023778	-.000291	-.004482	-.001287
#2	.0007681	.001291	.000715	.0005975	-.000770	-.003598	.000720
#3	.0002662	.002225	-.001951	.0000950	-.000125	.007014	-.000424

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000034**	**-.000015**	**-.001459**	**-.000257**	**.0000348**	**-.001667**	**.0062129**
Stddev	.000038	.000084	.004053	.000297	.0002685	.001694	.0030129
%RSD	112.3593	575.3137	277.8695	115.9040	770.8690	101.6153	48.49341
#1	.000008	-.000096	.002827	-.000290	-.000271	-.000940	.0045479
#2	-.000067	-.000020	-.001972	.000056	.000142	-.003602	.0096908
#3	-.000042	.000072	-.005231	-.000536	.000233	-.000458	.0044001

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000330**	**-.004591**	**-.000168**	**-.000023**	**.0831051**	**-.003168**	**-.000385**
Stddev	.000340	.017197	.000137	.000088	.1125395	.003443	.000131
%RSD	102.8128	374.6154	81.68742	390.4644	135.4183	108.6732	34.09756
#1	-.000163	.006216	-.000320	.000071	.0927933	-.001597	-.000283
#2	-.000107	.004434	-.000056	-.000035	-.033965	-.000792	-.000337
#3	-.000721	-.024421	-.000127	-.000104	.190487	-.007117	-.000533

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1883189**	**.0015036**	**.0004156**	**-.000119**	**-.001720**	**.0023485**	**.0000914**
Stddev	.0177092	.0011122	.0009723	.000262	.002924	.0033328	.0004859
%RSD	9.403848	73.96856	233.9698	219.5950	169.9742	141.9102	531.5538
#1	.1953366	.0022561	-.000134	.000169	.000561	-.000561	.0006118
#2	.2014437	.0020286	.001538	-.000184	-.000705	.001622	.0000127
#3	.1681763	.0002261	-.000157	-.000343	-.005016	.005985	-.000350

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165911BL Acquired: 1/12/2025 3:46:53 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS911 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0001325	.0008372	-.000059
Stddev	.0011966	.0012885	.000059
%RSD	903.0927	153.8970	100.7830
#1	-.001213	.0007642	-.000012
#2	.000534	-.000413	-.000126
#3	.001077	.002161	-.000039

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2488.168	58236.11	7952.884	2725.438	3566.695
Stddev	4.969	150.65	41.630	1.414	3.931
%RSD	.1996893	.2586829	.5234574	.0518656	.1102063
#1	2493.803	58407.38	7999.376	2727.067	3571.233
#2	2484.418	58124.14	7940.216	2724.532	3564.433
#3	2486.283	58176.80	7919.059	2724.716	3564.417

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165911BS Acquired: 1/12/2025 3:51:01 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS911 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0175125**	**.0510981**	**.0186514**	**.0592809**	**.0996255**	**.3533291**	**.3613762**
Stddev	.0023611	.0008429	.0007002	.0037044	.0009423	.0027715	.0002697
%RSD	13.48214	1.649508	3.753906	6.248916	.9458049	.7844117	.0746270
#1	.0201460	.0515547	.0193607	.0618558	.0993014	.3565294	.3611011
#2	.0155849	.0501255	.0186328	.0550354	.0988881	.3517396	.3613875
#3	.0168067	.0516141	.0179607	.0609514	.1006871	.3517183	.3616401

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0104742**	**.0096850**	**9.428705**	**.0203683**	**.0960813**	**.0513147**	**.2021362**
Stddev	.0000503	.0000815	.016456	.0002145	.0002102	.0021275	.0071577
%RSD	.4802851	.8410730	.1745329	1.052879	.2188223	4.145899	3.541043
#1	.0105267	.0097507	9.442361	.0206151	.0958736	.0509486	.2102998
#2	.0104263	.0095939	9.410434	.0202623	.0962940	.0536014	.1969364
#3	.0104695	.0097103	9.433321	.0202274	.0960763	.0493940	.1991725

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0281445**	**8.873487**	**.0779417**	**.0193076**	**10.37013**	**.1013683**	**.1429915**
Stddev	.0003415	.016596	.0003274	.0002435	.09300	.0015146	.0007125
%RSD	1.213559	.1870304	.4200592	1.261344	.8967780	1.494186	.4983105
#1	.0285333	8.882318	.0775703	.0190395	10.46307	.1020438	.1429340
#2	.0280071	8.883800	.0780665	.0195151	10.27707	.0996335	.1437311
#3	.0278930	8.854342	.0781884	.0193683	10.37024	.1024278	.1423095

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.599972**	**.0182185**	**.0009571**	**.0182949**	**.1654346**	**1.007474**	**.0129203**
Stddev	.021047	.0015337	.0004840	.0002201	.0009705	.003672	.0001801
%RSD	.2447319	8.418580	50.56946	1.203255	.5866451	.3644382	1.393626
#1	8.605674	.0185992	.0012361	.0182067	.1643364	1.010201	.0131275
#2	8.617581	.0195260	.0003982	.0185455	.1657905	1.008923	.0128325
#3	8.576662	.0165302	.0012370	.0181325	.1661770	1.003299	.0128011

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165911BS Acquired: 1/12/2025 3:51:01 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS911 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2029635	.0270266	.1842075
Stddev	.0016323	.0012085	.0008099
%RSD	.8042314	4.471391	.4396478
#1	.2048412	.0257022	.1838251
#2	.2018833	.0280695	.1836597
#3	.2021658	.0273080	.1851378

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2474.392	57191.13	7902.978	2690.810	3442.013
Stddev	5.042	283.58	51.535	10.005	10.533
%RSD	.2037553	.4958481	.6520934	.3718317	.3060115
#1	2476.809	56870.10	7845.822	2684.328	3443.234
#2	2477.770	57295.76	7917.215	2685.769	3451.882
#3	2468.596	57407.52	7945.898	2702.333	3430.923

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165923BL Acquired: 1/12/2025 3:55:04 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS923 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001047**	**.0012093**	**.0004810**	**.0023689**	**.0004839**	**-.008713**	**-.002651**
Stddev	.001705	.0014033	.0005758	.0008053	.0011218	.002531	.000735
%RSD	162.8158	116.0367	119.7177	33.99296	231.8421	29.04789	27.73521
#1	.000490	-.000324	-.000175	.0031114	.0012727	-.007103	-.002806
#2	-.002881	.001523	.000716	.0024826	.0009792	-.007406	-.003295
#3	-.000750	.002429	.000902	.0015129	-.000800	-.011631	-.001850

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000064**	**.0000353**	**.0103076**	**-.000317**	**.0000944**	**.0003664**	**.0042191**
Stddev	.000026	.0000231	.0135641	.000319	.0001109	.0017245	.0085027
%RSD	40.56465	65.39160	131.5926	100.5276	117.4647	470.6499	201.5301
#1	-.000046	.0000369	-.005241	-.000685	.0001903	-.001625	.0031617
#2	-.000094	.0000114	.019716	-.000133	.0001200	.001339	.0132011
#3	-.000053	.0000574	.016447	-.000133	-.000027	.001384	-.003705

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000636**	**.0125834**	**-.000303**	**-.000071**	**-.023893**	**-.003594**	**-.000196**
Stddev	.0002929	.0107826	.000361	.000113	.214069	.001177	.000206
%RSD	460.3467	85.68959	118.9046	160.0964	895.9369	32.74381	104.9815
#1	-.000071	.0078859	-.000290	-.000012	-.130548	-.002238	-.000392
#2	-.000138	.0049464	.000051	-.000201	-.163683	-.004348	-.000213
#3	.000400	.0249179	-.000670	.000001	.222551	-.004195	.000018

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1491133**	**-.000915**	**-.000439**	**-.000004**	**-.001003**	**.0083774**	**.0003262**
Stddev	.0479677	.001636	.000261	.000384	.003677	.0024895	.0004202
%RSD	32.16865	178.8688	59.55563	10124.54	366.6842	29.71719	128.8154
#1	.0938229	-.000845	-.000739	-.000316	-.001156	.0112499	.0002193
#2	.1796109	.000686	-.000260	-.000120	-.004600	.0068465	.0007895
#3	.1739059	-.002584	-.000318	.000425	.002748	.0070356	-.000030

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165923BL Acquired: 1/12/2025 3:55:04 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS923 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000832	-.000261	-.000076
Stddev	.000524	.001707	.000028
%RSD	62.94796	655.3841	36.74266
#1	-.001166	.001691	-.000048
#2	-.000228	-.000996	-.000104
#3	-.001101	-.001477	-.000078

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2437.400	57921.76	7883.910	2697.273	3446.072
Stddev	7.288	177.21	41.380	13.223	8.913
%RSD	.2990263	.3059542	.5248660	.4902182	.2586502
#1	2429.964	58124.81	7907.981	2708.728	3435.831
#2	2444.532	57798.24	7836.129	2700.288	3452.077
#3	2437.703	57842.22	7907.621	2682.803	3450.309

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165923BS Acquired: 1/12/2025 3:59:13 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS923 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0174849	.0524567	.0193614	.0638420	.1031469	.3516450	.3612067
Stddev	.0012263	.0012645	.0015285	.0026615	.0007554	.0075408	.0026829
%RSD	7.013622	2.410584	7.894349	4.168875	.7323592	2.144446	.7427639
#1	.0183106	.0521126	.0176274	.0663702	.1038973	.3512885	.3626413
#2	.0160758	.0538577	.0199435	.0610647	.1023866	.3442887	.3581115
#3	.0180682	.0513999	.0205132	.0640912	.1031567	.3593577	.3628673

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0105357	.0102315	9.438385	.0210380	.0999719	.0516712	.1978165
Stddev	.0000189	.0000948	.076827	.0003309	.0002581	.0011093	.0058877
%RSD	.1796078	.9261171	.8139852	1.572844	.2581656	2.146840	2.976326
#1	.0105169	.0101657	9.462654	.0212013	.0996824	.0525801	.1961688
#2	.0105547	.0103401	9.352354	.0212554	.1000555	.0504351	.1929282
#3	.0105354	.0101886	9.500146	.0206571	.1001778	.0519985	.2043524

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0284090	8.811374	.0814060	.0195584	10.35163	.1054333	.1440315
Stddev	.0002399	.022429	.0001188	.0002333	.26028	.0011067	.0002758
%RSD	.8443756	.2545493	.1459602	1.192878	2.514389	1.049629	.1915086
#1	.0286672	8.825049	.0812690	.0193840	10.60707	.1062861	.1437566
#2	.0283669	8.785488	.0814687	.0194677	10.36106	.1058311	.1443083
#3	.0281930	8.823584	.0814804	.0198234	10.08676	.1041828	.1440298

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.589774	.0177477	.0001957	.0188456	.1754229	1.020495	.0131100
Stddev	.092590	.0010317	.0002526	.0002902	.0069546	.002157	.0004053
%RSD	1.077915	5.813051	129.0457	1.539717	3.964481	.2113322	3.091685
#1	8.671651	.0167638	.0001894	.0185172	.1804145	1.022977	.0129479
#2	8.489295	.0188213	.0004515	.0189523	.1783750	1.019073	.0128108
#3	8.608377	.0176579	-.000054	.0190673	.1674792	1.019436	.0135713

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165923BS Acquired: 1/12/2025 3:59:13 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS923 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2061019	.0239857	.1863133
Stddev	.0018777	.0013429	.0014698
%RSD	.9110506	5.598615	.7889012
#1	.2080039	.0224567	.1867529
#2	.2042495	.0249737	.1846738
#3	.2060523	.0245266	.1875131

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2412.404	58537.63	7920.988	2723.844	3325.620
Stddev	6.962	183.05	31.926	12.081	9.086
%RSD	.2886037	.3127109	.4030594	.4435307	.2732254
#1	2411.059	58472.04	7941.968	2730.278	3320.086
#2	2419.941	58744.44	7884.246	2731.346	3336.107
#3	2406.213	58396.41	7936.751	2709.907	3320.668

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165891BL Acquired: 1/12/2025 4:03:16 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS891 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0019055**	**.0012866**	**.0009025**	**.0023858**	**.0006255**	**.0012262**	**-.000621**
Stddev	.0005543	.0007615	.0004593	.0022869	.0014771	.0040708	.001101
%RSD	29.09057	59.19000	50.88961	95.85432	236.1317	331.9879	177.2283
#1	.0018120	.0018587	.0003948	.0042945	-.000599	-.002968	-.000612
#2	.0025007	.0015788	.0010236	-.000149	.002266	.005161	-.001727
#3	.0014039	.0004222	.0012891	.003012	.000209	.001486	.000475

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000509**	**-.000091**	**-.004599**	**-.000301**	**-.000156**	**-.000701**	**.0078035**
Stddev	.0000548	.000024	.005962	.000146	.000138	.001830	.0026102
%RSD	107.6437	26.76551	129.6243	48.36097	88.38623	260.9566	33.44948
#1	.0000761	-.000118	-.008383	-.000328	-.000029	.000503	.0098243
#2	-.000012	-.000073	.002273	-.000432	-.000136	-.002808	.0048565
#3	.000089	-.000081	-.007688	-.000144	-.000302	.000200	.0087297

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000175**	**.0085316**	**.0002047**	**.0000237**	**.0499394**	**-.002129**	**-.000312**
Stddev	.000325	.0096979	.0002058	.0001751	.1740723	.001315	.000048
%RSD	185.9052	113.6704	100.5583	738.1914	348.5669	61.76795	15.38089
#1	-.000549	-.001070	.0001697	-.000082	.1654157	-.002174	-.000299
#2	.000037	.018323	.0000186	.000226	-.150277	-.000792	-.000272
#3	-.000013	.008343	.0004257	-.000073	.134680	-.003421	-.000366

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2339790**	**.0005049**	**-.001325**	**-.000109**	**.0015242**	**.0023078**	**-.000500**
Stddev	.0519300	.0006408	.000156	.000157	.0024094	.0150402	.000114
%RSD	22.19429	126.9080	11.74099	143.4521	158.0824	651.7066	22.70857
#1	.2739174	.0010271	-.001489	-.000149	.0038163	-.008599	-.000595
#2	.1752746	.0006977	-.001306	-.000243	.0017437	-.003943	-.000531
#3	.2527451	-.000210	-.001179	.000064	-.000988	.019465	-.000374

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165891BL Acquired: 1/12/2025 4:03:16 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS891 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000892	-.000640	-.000046
Stddev	.000418	.000658	.000036
%RSD	46.86011	102.8204	77.49559
#1	-.001292	.000119	-.000007
#2	-.000458	-.001053	-.000077
#3	-.000927	-.000985	-.000053

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2462.939	58023.14	7962.797	2694.052	3499.437
Stddev	1.763	142.66	39.144	10.334	.574
%RSD	.0715655	.2458723	.4915879	.3835760	.0163978
#1	2462.467	58173.02	7950.779	2688.149	3499.743
#2	2464.889	57888.99	8006.541	2688.022	3499.792
#3	2461.460	58007.42	7931.071	2705.984	3498.775

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165891BS Acquired: 1/12/2025 4:07:26 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS891 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0178784	.0524784	.0200653	.0638993	.1037299	.3499763	.3587102
Stddev	.0010501	.0017946	.0008840	.0009694	.0015599	.0039107	.0020677
%RSD	5.873557	3.419638	4.405815	1.517128	1.503814	1.117424	.5764275
#1	.0168928	.0508957	.0190779	.0634970	.1048472	.3457233	.3569165
#2	.0177595	.0521114	.0207831	.0650050	.1043947	.3534172	.3609718
#3	.0189829	.0544281	.0203350	.0631957	.1019477	.3507885	.3582424

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0106280	.0101332	9.336283	.0208349	.0992260	.0533655	.1954910
Stddev	.0000743	.0000848	.073895	.0003678	.0002327	.0017055	.0089628
%RSD	.6993752	.8368043	.7914814	1.765056	.2344855	3.195917	4.584743
#1	.0106969	.0100357	9.294140	.0205450	.0991971	.0534962	.1868817
#2	.0105492	.0101902	9.421607	.0212485	.0990092	.0515984	.2047697
#3	.0106380	.0101736	9.293101	.0207112	.0994718	.0550019	.1948215

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0282138	8.774930	.0810153	.0191419	10.44961	.1048240	.1433969
Stddev	.0003618	.090517	.0003280	.0003606	.21760	.0016738	.0008145
%RSD	1.282477	1.031538	.4048560	1.884024	2.082414	1.596784	.5680317
#1	.0282017	8.730192	.0808980	.0192426	10.59448	.1028943	.1442914
#2	.0285816	8.879105	.0813858	.0187416	10.55496	.1058839	.1432011
#3	.0278583	8.715494	.0807620	.0194415	10.19938	.1056937	.1426980

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.441034	.0174694	-.000137	.0184211	.1783279	1.035575	.0130875
Stddev	.090956	.0010178	.000801	.0005718	.0014564	.015967	.0003865
%RSD	1.077541	5.825935	584.9207	3.103984	.8166805	1.541808	2.953431
#1	8.392949	.0174010	-.000794	.0185401	.1799072	1.044991	.0133728
#2	8.545939	.0164875	.000755	.0189240	.1770379	1.017140	.0132421
#3	8.384213	.0185195	-.000372	.0177992	.1780386	1.044595	.0126476

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165891BS Acquired: 1/12/2025 4:07:26 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS891 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2085291	.0266193	.1799426
Stddev	.0010934	.0007288	.0016340
%RSD	.5243604	2.737815	.9080464
#1	.2090212	.0265998	.1784076
#2	.2092900	.0273577	.1816602
#3	.2072761	.0259005	.1797600

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2423.255	59245.91	7893.081	2741.688	3340.256
Stddev	4.488	237.58	20.843	14.969	3.292
%RSD	.1851851	.4010005	.2640612	.5459664	.0985487
#1	2427.731	59329.38	7869.284	2735.047	3340.309
#2	2418.756	58977.86	7908.094	2731.189	3343.520
#3	2423.277	59430.48	7901.864	2758.828	3336.937

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165885BL Acquired: 1/12/2025 4:11:29 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS885 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001754**	**-.000115**	**.0002729**	**.0026684**	**-.001380**	**-.006654**	**-.001381**
Stddev	.000210	.000510	.0002982	.0022538	.000588	.006814	.000712
%RSD	11.99148	442.5217	109.2689	84.45918	42.61103	102.4032	51.56597
#1	-.001991	-.000185	.0001840	.0000842	-.001936	-.005802	-.001355
#2	-.001679	-.000587	.0006055	.0042263	-.000765	-.000307	-.002105
#3	-.001590	.000426	.0000293	.0036949	-.001439	-.013855	-.000682

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000028**	**.0000123**	**.0035007**	**.0000076**	**-.000045**	**.0004193**	**.0032179**
Stddev	.000029	.0000308	.0060721	.0001245	.000099	.0007201	.0036119
%RSD	103.6679	250.4810	173.4569	1638.245	218.4722	171.7524	112.2426
#1	-.000060	.0000320	-.003299	.0001485	-.000151	-.000161	.0071863
#2	-.000008	-.000023	.008383	-.000038	-.000031	.000194	.0023451
#3	-.000014	.000028	.005418	-.000088	.000046	.001225	.0001224

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000263**	**.0074339**	**-.000445**	**-.000059**	**-.074285**	**-.001718**	**-.000267**
Stddev	.000440	.0124990	.000174	.000158	.086738	.002019	.000123
%RSD	167.4921	168.1333	39.10245	266.6966	116.7646	117.5567	46.15528
#1	-.000113	.0052648	-.000413	-.000098	-.169489	-.000547	-.000336
#2	.000083	.0208755	-.000288	-.000194	-.053621	-.000556	-.000125
#3	-.000758	-.003838	-.000632	.000115	.000256	-.004049	-.000340

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1502858**	**.0004003**	**-.002399**	**-.000231**	**.0007781**	**.0007564**	**-.000504**
Stddev	.0466155	.0020276	.000516	.000084	.0007506	.0040331	.000385
%RSD	31.01789	506.5138	21.48583	36.35438	96.46882	533.1791	76.34324
#1	.1499656	.0025960	-.001935	-.000253	.0006557	-.002177	-.000304
#2	.1038313	-.001402	-.002954	-.000138	.0000962	-.000909	-.000947
#3	.1970607	.000006	-.002309	-.000302	.0015825	.005355	-.000260

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165885BL Acquired: 1/12/2025 4:11:29 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS885 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0002622	-.000539	-.000134
Stddev	.0005858	.000685	.000012
%RSD	223.4196	126.9444	9.227884
#1	.0008777	-.000302	-.000137
#2	-.000288	-.001311	-.000145
#3	.000197	-.000005	-.000121

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2526.195	58464.69	8011.943	2711.157	3654.449
Stddev	5.613	49.65	37.259	5.568	8.234
%RSD	.2221925	.0849189	.4650418	.2053802	.2253069
#1	2521.251	58408.18	7982.862	2707.882	3645.054
#2	2532.296	58484.54	8053.942	2717.586	3660.405
#3	2525.037	58501.33	7999.026	2708.003	3657.889

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165885BS Acquired: 1/12/2025 4:15:39 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS885 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0162974**	**.0530528**	**.0179242**	**.0617854**	**.1014299**	**.3541268**	**.3697885**
Stddev	.0017717	.0011581	.0004370	.0030350	.0003367	.0077315	.0009261
%RSD	10.87091	2.182944	2.438034	4.912233	.3319013	2.183258	.2504469
#1	.0144331	.0519136	.0178789	.0583527	.1010414	.3620319	.3693504
#2	.0165000	.0530160	.0183820	.0641134	.1016345	.3465815	.3691627
#3	.0179590	.0542289	.0175116	.0628900	.1016139	.3537671	.3708524

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0107095**	**.0100262**	**9.617154**	**.0215988**	**.0990039**	**.0526118**	**.1996039**
Stddev	.0000750	.0001263	.026921	.0000939	.0002989	.0016515	.0073397
%RSD	.7000813	1.259497	.2799272	.4348402	.3019516	3.139013	3.677124
#1	.0106475	.0099547	9.614420	.0216171	.0987901	.0535800	.2080641
#2	.0107928	.0099518	9.591705	.0214971	.0988761	.0507049	.1949383
#3	.0106882	.0101720	9.645338	.0216822	.0993455	.0535505	.1958094

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0292600**	**9.044102**	**.0804224**	**.0199815**	**10.41689**	**.1062931**	**.1465084**
Stddev	.0002878	.048234	.0002005	.0003810	.04572	.0016867	.0005371
%RSD	.9836522	.5333218	.2493318	1.906825	.4388920	1.586816	.3665821
#1	.0292344	9.033423	.0801917	.0203902	10.38769	.1043759	.1459131
#2	.0295598	9.002103	.0805201	.0199181	10.46958	.1069546	.1466555
#3	.0289858	9.096781	.0805553	.0196361	10.39340	.1075487	.1469565

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.816200**	**.0183779**	**-.001560**	**.0188347**	**.1745685**	**1.033070**	**.0134990**
Stddev	.087901	.0013064	.000243	.0000763	.0022358	.014636	.0007246
%RSD	.9970348	7.108444	15.58795	.4051535	1.280778	1.416724	5.367995
#1	8.778444	.0198728	-.001651	.0189189	.1720041	1.021463	.0132462
#2	8.753486	.0178057	-.001285	.0188151	.1761091	1.049511	.0143162
#3	8.916671	.0174553	-.001745	.0187701	.1755923	1.028235	.0129347

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165885BS Acquired: 1/12/2025 4:15:39 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS885 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2083290	.0252297	.1875150
Stddev	.0007560	.0006889	.0004645
%RSD	.3628619	2.730568	.2477380
#1	.2076357	.0244361	.1878986
#2	.2091349	.0256733	.1869984
#3	.2082164	.0255798	.1876478

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2414.107	56441.41	7735.592	2651.242	3358.026
Stddev	3.864	195.92	29.854	6.406	4.198
%RSD	.1600411	.3471230	.3859360	.2416082	.1250125
#1	2415.128	56504.12	7769.654	2650.238	3359.156
#2	2417.358	56598.31	7713.965	2658.090	3361.544
#3	2409.836	56221.82	7723.157	2645.397	3353.379

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165884BL Acquired: 1/12/2025 4:19:42 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS884 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001663**	**.0004824**	**.0009964**	**.0009824**	**.0006977**	**.0019260**	**-.002591**
Stddev	.002454	.0002000	.0011200	.0015540	.0011513	.0023501	.001011
%RSD	147.5542	41.46229	112.3973	158.1920	165.0095	122.0231	39.01430
#1	-.003527	.0006444	.0015285	.0020808	.0011687	.0046289	-.003601
#2	.001117	.0002588	-.000290	-.000796	.0015389	.0003652	-.001580
#3	-.002580	.0005441	.001751	.001662	-.000614	.0007838	-.002591

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000173**	**-.000017**	**-.001190**	**-.000168**	**-.000028**	**.0002097**	**.0076083**
Stddev	.000059	.000041	.005740	.000103	.000367	.0005088	.0043647
%RSD	34.23585	242.9546	482.1209	61.32190	1291.676	242.6538	57.36818
#1	-.000189	.000029	-.006726	-.000184	-.000357	-.000259	.0043586
#2	-.000223	-.000048	.004733	-.000262	.000368	.000751	.0058969
#3	-.000108	-.000032	-.001578	-.000058	-.000096	.000137	.0125693

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000136**	**.0020086**	**-.000271**	**.0001496**	**.0213763**	**-.001723**	**-.000188**
Stddev	.000394	.0166178	.000323	.0002731	.0192312	.001929	.000152
%RSD	289.2279	827.3521	119.4776	182.5283	89.96516	111.9865	81.12544
#1	.000109	.0210598	-.000069	.0001713	.0283568	-.001935	-.000216
#2	-.000591	-.005532	-.000643	-.000134	-.000370	.000304	-.000324
#3	.000073	-.009502	-.000099	.000411	.036142	-.003537	-.000023

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1525147**	**-.001593**	**-.002974**	**.0000279**	**.0007187**	**.0105657**	**-.000001**
Stddev	.0652458	.000071	.000680	.0001603	.0035210	.0007531	.000298
%RSD	42.78000	4.438585	22.87351	574.5384	489.8836	7.127805	31849.60
#1	.0782155	-.001630	-.002845	-.000157	-.002721	.0107739	-.000105
#2	.1788597	-.001638	-.003709	.000115	.004316	.0111928	-.000233
#3	.2004688	-.001512	-.002367	.000125	.000561	.0097304	.000335

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165884BL Acquired: 1/12/2025 4:19:42 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS884 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000106	.0001497	-.000098
Stddev	.000967	.0016007	.000042
%RSD	913.1531	1069.526	42.86637
#1	-.000688	-.000396	-.000081
#2	-.000640	.001952	-.000146
#3	.001010	-.001107	-.000067

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2436.401	57184.35	7760.076	2684.670	3451.404
Stddev	4.542	51.47	62.222	9.769	15.166
%RSD	.1864302	.0900063	.8018273	.3638721	.4394256
#1	2433.159	57224.08	7701.624	2680.368	3448.724
#2	2441.592	57202.76	7753.121	2695.852	3467.731
#3	2434.451	57126.20	7825.484	2677.791	3437.756

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165884BS Acquired: 1/12/2025 4:23:52 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS884 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0166910	.0527370	.0186723	.0618499	.1035234	.3726971	.3636261
Stddev	.0029734	.0014629	.0006236	.0025104	.0010532	.0032003	.0027493
%RSD	17.81411	2.773918	3.339797	4.058773	1.017332	.8587014	.7560714
#1	.0138052	.0510478	.0193913	.0641790	.1043022	.3717019	.3634969
#2	.0197447	.0535869	.0183474	.0621798	.1023251	.3701125	.3664377
#3	.0165229	.0535763	.0182782	.0591909	.1039429	.3762768	.3609438

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0107202	.0100842	9.565876	.0210811	.0991766	.0546040	.2049426
Stddev	.0000479	.0001499	.022245	.0003470	.0002505	.0012774	.0012127
%RSD	.4469102	1.486127	.2325416	1.645877	.2525712	2.339367	.5917233
#1	.0107511	.0100616	9.562983	.0212046	.0989740	.0555078	.2062243
#2	.0106650	.0099470	9.589426	.0213493	.0990991	.0531426	.2047901
#3	.0107445	.0102441	9.545220	.0206892	.0994567	.0551616	.2038134

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0287894	9.052803	.0810290	.0192393	10.33587	.1036208	.1458185
Stddev	.0005060	.011863	.0003900	.0001739	.19370	.0015249	.0009028
%RSD	1.757640	.1310399	.4812627	.9037652	1.874100	1.471606	.6191514
#1	.0293445	9.039810	.0808239	.0194221	10.49184	.1018964	.1454174
#2	.0283539	9.055544	.0807844	.0190759	10.39673	.1047914	.1451857
#3	.0286697	9.063055	.0814787	.0192200	10.11905	.1041745	.1468524

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.734445	.0183863	-.001477	.0188783	.1766620	1.023878	.0136433
Stddev	.045755	.0020978	.000635	.0006131	.0026861	.005991	.0003519
%RSD	.5238486	11.40942	42.96363	3.247803	1.520462	.5851240	2.579320
#1	8.716429	.0159779	-.000746	.0195086	.1795568	1.030712	.0134543
#2	8.786466	.0193661	-.001797	.0182839	.1742502	1.019530	.0140494
#3	8.700440	.0198149	-.001889	.0188425	.1761790	1.021393	.0134264

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165884BS Acquired: 1/12/2025 4:23:52 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS884 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2050787	.0270128	.1868743
Stddev	.0003484	.0010421	.0005252
%RSD	.1699083	3.857901	.2810340
#1	.2054789	.0278129	.1865222
#2	.2049143	.0258343	.1874780
#3	.2048429	.0273912	.1866229

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2406.530	56550.37	7794.570	2682.774	3316.414
Stddev	4.501	206.61	45.859	11.342	8.380
%RSD	.1870431	.3653620	.5883422	.4227835	.2526734
#1	2406.715	56326.88	7746.787	2670.605	3323.018
#2	2410.935	56589.78	7838.225	2693.052	3319.237
#3	2401.938	56734.43	7798.697	2684.665	3306.988

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165886BL Acquired: 1/12/2025 4:27:55 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS886 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000507**	**-.000802**	**-.000194**	**.0009710**	**.0000338**	**-.008620**	**.0007196**
Stddev	.0008262	.000100	.002208	.0011715	.0010550	.007293	.0008694
%RSD	1630.161	12.49609	1139.497	120.6465	3124.105	84.60479	120.8151
#1	-.000431	-.000694	.001306	.0010943	.0008841	-.016882	-.000233
#2	.001005	-.000821	-.002729	.0020760	.0003641	-.005903	.001471
#3	-.000421	-.000891	.000842	-.000257	-.001147	-.003076	.000921

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000042**	**-.000075**	**.0032524**	**-.000394**	**.0001682**	**-.001651**	**-.002060**
Stddev	.000054	.000039	.0032852	.000198	.0002498	.000888	.001740
%RSD	129.9144	51.74765	101.0073	50.09804	148.4889	53.78145	84.46553
#1	-.000046	-.000119	-.000396	-.000616	.0001907	-.000903	-.003984
#2	-.000093	-.000052	.004178	-.000237	-.000092	-.002633	-.000598
#3	.000014	-.000053	.005976	-.000330	.000406	-.001419	-.001597

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000366**	**.0088353**	**-.000268**	**.0002992**	**-.122921**	**-.001960**	**-.000233**
Stddev	.0008565	.0136077	.000285	.0002687	.249712	.000794	.000474
%RSD	2338.435	154.0140	106.2172	89.80538	203.1474	40.48808	203.1474
#1	.0004885	.0212798	-.000377	.0004280	-.073057	-.001869	-.000659
#2	.0005726	-.005695	-.000483	.0004794	.098096	-.002796	.000277
#3	-.000951	.010921	.000055	-.000010	-.393803	-.001217	-.000317

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1885785**	**-.002228**	**-.002867**	**-.000163**	**.0013291**	**.0061368**	**.0001015**
Stddev	.0459476	.002703	.000865	.000167	.0056442	.0054467	.0003142
%RSD	24.36524	121.2962	30.18302	102.1490	424.6517	88.75475	309.5814
#1	.1430275	-.000875	-.003731	-.000350	.0054881	.0022046	.0003859
#2	.1877953	-.005341	-.002872	-.000114	-.005096	.0038520	.0001542
#3	.2349127	-.000469	-.002000	-.000027	.003595	.0123538	-.000236

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165886BL Acquired: 1/12/2025 4:27:55 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS886 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000356	.0010505	-.000096
Stddev	.000744	.0017923	.000017
%RSD	208.7933	170.6233	17.55475
#1	-.001214	.0030406	-.000078
#2	.000037	-.000437	-.000111
#3	.000108	.000547	-.000099

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2419.693	57805.80	7818.794	2724.778	3387.647
Stddev	.647	301.24	25.167	9.795	5.901
%RSD	.0267257	.5211160	.3218762	.3594887	.1741839
#1	2419.226	58031.35	7809.112	2733.585	3382.042
#2	2420.431	57463.70	7799.905	2714.229	3393.805
#3	2419.421	57922.35	7847.363	2726.520	3387.094

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165886BS Acquired: 1/12/2025 4:32:04 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS886 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0191874**	**.0516563**	**.0188771**	**.0651678**	**.1035371**	**.3331847**	**.3446263**
Stddev	.0003739	.0005180	.0011970	.0013937	.0017461	.0042312	.0023306
%RSD	1.948863	1.002746	6.340914	2.138631	1.686478	1.269936	.6762802
#1	.0195352	.0515471	.0175590	.0637626	.1053523	.3345835	.3437333
#2	.0187919	.0512017	.0191761	.0651910	.1018694	.3284312	.3428742
#3	.0192350	.0522202	.0198963	.0665497	.1033896	.3365395	.3472714

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0104666**	**.0100924**	**9.085559**	**.0202444**	**.0987139**	**.0510456**	**.1969504**
Stddev	.0001021	.0000234	.041526	.0003884	.0003165	.0044468	.0017046
%RSD	.9754383	.2321646	.4570572	1.918781	.3206214	8.711447	.8655015
#1	.0104955	.0100654	9.095407	.0199493	.0987673	.0484463	.1986972
#2	.0105511	.0101050	9.039994	.0200994	.0983740	.0561803	.1952914
#3	.0103532	.0101069	9.121276	.0206844	.0990002	.0485104	.1968625

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0267267**	**8.518964**	**.0801873**	**.0188602**	**10.09803**	**.1014198**	**.1393760**
Stddev	.0005352	.063736	.0000542	.0003796	.25098	.0012907	.0002347
%RSD	2.002554	.7481678	.0676075	2.012863	2.485397	1.272610	.1684128
#1	.0272114	8.493890	.0802294	.0188917	10.37699	.1027651	.1391342
#2	.0268165	8.471578	.0801262	.0192231	9.89055	.1001918	.1393910
#3	.0261523	8.591424	.0802064	.0184658	10.02654	.1013026	.1396029

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.214432**	**.0183345**	**-.002129**	**.0184040**	**.1748579**	**1.004075**	**.0141026**
Stddev	.035316	.0012496	.001238	.0003949	.0042876	.016459	.0008565
%RSD	.4299211	6.815531	58.11656	2.145655	2.452022	1.639256	6.073055
#1	8.173712	.0168929	-.003424	.0183851	.1703439	1.017762	.0132894
#2	8.236698	.0191084	-.000958	.0188080	.1788759	1.008650	.0149966
#3	8.232885	.0190022	-.002007	.0180189	.1753538	.985812	.0140218

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165886BS Acquired: 1/12/2025 4:32:04 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS886 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2026683	.0248112	.1786366
Stddev	.0009143	.0009773	.0011308
%RSD	.4511296	3.938914	.6330310
#1	.2016488	.0244779	.1787150
#2	.2029403	.0240442	.1774686
#3	.2034157	.0259116	.1797261

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2430.986	60210.16	7966.038	2795.828	3338.059
Stddev	4.495	351.20	32.627	5.755	6.679
%RSD	.1849012	.5832921	.4095713	.2058473	.2000825
#1	2428.139	59941.89	7933.082	2793.094	3331.501
#2	2436.168	60607.67	7966.707	2791.950	3344.853
#3	2428.650	60080.93	7998.325	2802.441	3337.822

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-01 Acquired: 1/12/2025 4:36:06 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMZ2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0951620**	**-.002805**	**2.039248**	**.0284743**	**-.003063**	**51.97962**
Stddev	.0029465	.001537	.004739	.0009212	.001535	.09070
%RSD	3.096276	54.80519	.2323747	3.235378	50.11472	.1744847
#1	.0962575	-.001112	2.037338	.0279482	-.002124	52.00795
#2	.0974037	-.003188	2.035762	.0279367	-.004835	51.87815
#3	.0918246	-.004115	2.044643	.0295381	-.002231	52.05278

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.032975**	**.0043279**	**.0089027**	**33.61431**	**.1633899**	**.0824045**
Stddev	.001372	.0001387	.0000172	.05453	.0005967	.0003016
%RSD	.1327766	3.203911	.1932291	.1622147	.3651781	.3660510
#1	1.034060	.0044802	.0088905	33.67349	.1639834	.0820721
#2	1.031433	.0042090	.0089224	33.60336	.1627901	.0824805
#3	1.033431	.0042945	.0088952	33.56610	.1633963	.0826609

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3352739**	**135.1416**	**7.771892**	**14.60409**	**.1885883**	**-.011306**
Stddev	.0021861	.1459	.011165	.01161	.0005060	.000133
%RSD	.6520320	.1079286	.1436590	.0794851	.2682834	1.180030
#1	.3331719	135.2338	7.782195	14.61453	.1886878	-.011282
#2	.3375354	134.9734	7.760029	14.59159	.1880400	-.011186
#3	.3351144	135.2175	7.773451	14.60614	.1890371	-.011450

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4119779**	**.1384164**	**1.413491**	**7.090593**	F **12.36566**	**.5687967**
Stddev	.0279883	.0010228	.002403	.035341	.01854	.0015509
%RSD	6.793650	.7389269	.1699706	.4984163	.1499647	.2726726
#1	.4022797	.1395448	1.413341	7.082485	12.37200	.5694741
#2	.4435254	.1375503	1.415964	7.129282	12.34478	.5670223
#3	.3901285	.1381541	1.411166	7.060010	12.38021	.5698938

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-01 Acquired: 1/12/2025 4:36:06 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMZ2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0087750**	**3.535403**	**8.775971**	**.0855124**	**.6512521**	**.0636237**
Stddev	.0001996	.007653	.015478	.0013038	.0019581	.0007462
%RSD	2.274814	.2164723	.1763641	1.524707	.3006694	1.172751
#1	.0085801	3.540988	8.776725	.0860886	.6525253	.0644558
#2	.0087659	3.526680	8.791058	.0864289	.6522337	.0630144
#3	.0089790	3.538542	8.760130	.0840198	.6489974	.0634007

Elem	Sr4077
Units	ppm
Avg	**.1159995**
Stddev	.0001644
%RSD	.1417026
#1	.1161742
#2	.1158479
#3	.1159764

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2950.684**	**72918.43**	**10117.49**	**3374.811**	**3329.628**
Stddev	1.376	232.47	12.05	1.392	6.210
%RSD	.0466248	.3188126	.1190669	.0412432	.1865151
#1	2951.116	72895.13	10105.57	3376.204	3335.722
#2	2949.144	73161.67	10129.66	3374.809	3329.856
#3	2951.792	72698.48	10117.25	3373.421	3323.307

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-02 Acquired: 1/12/2025 4:40:01 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMZ3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1454008**	**-.002120**	**2.638060**	**.0304323**	**-.000725**	**57.87144**
Stddev	.0012486	.000676	.007788	.0003906	.002138	.08784
%RSD	.8587058	31.90751	.2952341	1.283497	295.0382	.1517883
#1	.1441383	-.002742	2.631759	.0307094	-.003172	57.96790
#2	.1454293	-.001400	2.635654	.0299856	.000219	57.85037
#3	.1466349	-.002217	2.646768	.0306020	.000779	57.79604

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.116543**	**.0047158**	**.0079521**	**21.94041**	**.1525719**	**.0909470**
Stddev	.004356	.0000733	.0000602	.06554	.0007911	.0002863
%RSD	.3901663	1.553515	.7570643	.2987389	.5184927	.3148442
#1	1.121137	.0046313	.0079213	21.97183	.1522468	.0908010
#2	1.116021	.0047620	.0079135	21.98434	.1534737	.0907630
#3	1.112471	.0047540	.0080214	21.86508	.1519952	.0912769

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3693014**	**141.8235**	**8.214148**	**15.08403**	**.1798703**	**-.011423**
Stddev	.0010032	.3783	.028412	.06034	.0004649	.000159
%RSD	.2716581	.2667164	.3458948	.4000284	.2584677	1.395296
#1	.3683617	142.1514	8.241995	15.13997	.1801917	-.011579
#2	.3703579	141.9094	8.215246	15.09203	.1800820	-.011430
#3	.3691844	141.4097	8.185202	15.02009	.1793372	-.011260

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4923864**	**.1502817**	**1.382172**	**7.477286**	F **11.52152**	**.5979603**
Stddev	.0821432	.0023810	.001872	.019236	.01423	.0023897
%RSD	16.68268	1.584376	.1354376	.2572596	.1234816	.3996348
#1	.5872156	.1499941	1.383610	7.498565	11.51236	.6005675
#2	.4467223	.1480576	1.380056	7.461130	11.51430	.5974392
#3	.4432212	.1527935	1.382851	7.472162	11.53791	.5958743

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-02 Acquired: 1/12/2025 4:40:01 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMZ3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0076213	2.201451	9.519196	.0949627	.6947875	.0710247
Stddev	.0002271	.005541	.022210	.0008348	.0016000	.0002284
%RSD	2.979833	.2516875	.2333137	.8791232	.2302829	.3215843
#1	.0075945	2.196068	9.500509	.0947107	.6929402	.0712857
#2	.0074089	2.201147	9.543750	.0942829	.6956894	.0709272
#3	.0078607	2.207137	9.513329	.0958945	.6957330	.0708612

Elem	Sr4077
Units	ppm
Avg	.0921087
Stddev	.0002060
%RSD	.2236491
#1	.0923367
#2	.0920534
#3	.0919360

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3020.566	71208.87	10123.56	3300.866	3420.076
Stddev	1.629	303.57	67.35	5.017	3.202
%RSD	.0539197	.4263099	.6652454	.1519802	.0936253
#1	3022.247	71497.29	10199.99	3305.919	3420.437
#2	3020.455	70892.13	10072.91	3295.886	3423.083
#3	3018.996	71237.20	10097.78	3300.793	3416.709

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-03 Acquired: 1/12/2025 4:43:57 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMZ4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1788249**	**-.002478**	**2.784386**	**.0339351**	**-.003335**	**69.00600**
Stddev	.0037340	.000727	.005988	.0030492	.001012	.40132
%RSD	2.088077	29.34340	.2150697	8.985444	30.33270	.5815795
#1	.1774925	-.002102	2.781247	.0354244	-.002620	69.45372
#2	.1759398	-.003317	2.780620	.0304274	-.002893	68.67859
#3	.1830423	-.002016	2.791291	.0359534	-.004492	68.88570

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.605718**	**.0055311**	**.0098230**	**27.62054**	**.1461557**	**.1063833**
Stddev	.009080	.0001846	.0000929	.13211	.0002836	.0003400
%RSD	.5654819	3.337066	.9457933	.4782869	.1940536	.3195859
#1	1.615935	.0053196	.0098554	27.77093	.1458298	.1060320
#2	1.598571	.0056137	.0098954	27.52323	.1462903	.1067107
#3	1.602648	.0056600	.0097182	27.56746	.1463468	.1064074

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4713651**	**166.8953**	**9.775082**	**16.16847**	**.1893932**	**-.013445**
Stddev	.0010300	.9009	.043348	.06839	.0008470	.000264
%RSD	.2185104	.5398031	.4434500	.4230138	.4472011	1.964697
#1	.4701761	167.8749	9.823138	16.22727	.1886476	-.013158
#2	.4719837	166.1024	9.738931	16.09341	.1892179	-.013678
#3	.4719355	166.7087	9.763177	16.18473	.1903141	-.013501

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1872314**	**.1737399**	**1.634667**	**7.931486**	F **13.33521**	**.7016687**
Stddev	.2256725	.0021571	.002450	.090605	.00531	.0036696
%RSD	120.5313	1.241585	.1498675	1.142349	.0398430	.5229853
#1	-.065704	.1762284	1.631987	8.032739	13.33444	.7053596
#2	.367975	.1725902	1.636792	7.903667	13.34086	.6980207
#3	.259423	.1724012	1.635222	7.858053	13.33032	.7016259

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-03 Acquired: 1/12/2025 4:43:57 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMZ4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0063570	1.806905	9.422586	.0849085	.6900824	.0825020
Stddev	.0001599	.003007	.004738	.0009464	.0025756	.0007391
%RSD	2.515948	.1664152	.0502878	1.114631	.3732292	.8958109
#1	.0064903	1.806087	9.421518	.0838309	.6873650	.0825001
#2	.0064011	1.810236	9.418472	.0852899	.6924878	.0832420
#3	.0061796	1.804391	9.427767	.0856047	.6903943	.0817638

Elem	Sr4077
Units	ppm
Avg	.1476487
Stddev	.0011497
%RSD	.7786767
#1	.1489062
#2	.1466514
#3	.1473885

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3075.937	72207.15	10431.54	3376.757	3354.679
Stddev	6.782	235.79	56.84	7.171	7.024
%RSD	.2204888	.3265399	.5449268	.2123700	.2093779
#1	3081.297	72149.90	10496.96	3382.045	3355.779
#2	3078.201	72466.29	10403.48	3368.594	3361.089
#3	3068.313	72005.27	10394.18	3379.631	3347.171

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-04 Acquired: 1/12/2025 4:47:53 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMZ5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1143461	-.003122	.9848832	.0294790	-.003183	59.24212	.8454250
Stddev	.0006662	.000588	.0087507	.0022064	.000200	.40901	.0038970
%RSD	.5826167	18.84734	.8884979	7.484770	6.273443	.6904086	.4609542
#1	.1145513	-.002469	.9904041	.0277463	-.003373	59.71207	.8490199
#2	.1148856	-.003612	.9747938	.0287277	-.002975	59.04781	.8459714
#3	.1136015	-.003285	.9894518	.0319629	-.003201	58.96649	.8412835

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042822	.0075367	20.41448	.1132757	.0960106	.3202888	153.7293
Stddev	.0000688	.0001989	.13610	.0005483	.0009875	.0011257	1.0052
%RSD	1.607457	2.638497	.6666920	.4840396	1.028497	.3514709	.6538614
#1	.0042692	.0074927	20.55197	.1133676	.0960511	.3191252	154.8559
#2	.0042208	.0073635	20.41166	.1126873	.0950035	.3203689	153.4081
#3	.0043566	.0077539	20.27981	.1137723	.0969772	.3213723	152.9240

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.272357	16.25250	.1713660	-.013485	.4985784	.1518855	.8635592
Stddev	.049107	.11948	.0011864	.000589	.1330359	.0008035	.0050112
%RSD	.5936241	.7351775	.6923124	4.367673	26.68304	.5290474	.5802959
#1	8.326411	16.37597	.1715073	-.013328	.5593791	.1527827	.8689666
#2	8.260165	16.24410	.1701153	-.012990	.5903500	.1516418	.8626392
#3	8.230495	16.13744	.1724754	-.014136	.3460060	.1512320	.8590717

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.628028	8.234048	.6418424	.0046797	1.000504	7.981632	.0395456
Stddev	.097355	.059830	.0053040	.0001413	.006322	.029244	.0009749
%RSD	2.103587	.7266160	.8263650	3.019096	.6318829	.3663896	2.465163
#1	4.736923	8.240221	.6477120	.0045251	.999623	7.949904	.0395611
#2	4.549407	8.171371	.6404217	.0048021	.994669	7.987486	.0385631
#3	4.597756	8.290552	.6373934	.0047120	1.007221	8.007506	.0405126

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-04 Acquired: 1/12/2025 4:47:53 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMZ5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.5430335	.0679564	.0985938
Stddev	.0006303	.0009630	.0006639
%RSD	.1160716	1.417076	.6733503
#1	.5428455	.0689361	.0993518
#2	.5437364	.0679220	.0983134
#3	.5425185	.0670110	.0981160

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3258.775	77988.71	11130.41	3638.462	3395.874
Stddev	12.555	392.71	60.24	31.278	25.412
%RSD	.3852701	.5035412	.5412249	.8596414	.7483155
#1	3258.395	77575.32	11184.32	3604.704	3391.369
#2	3271.516	78356.80	11141.52	3644.225	3423.238
#3	3246.414	78033.99	11065.39	3666.458	3373.017

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-05 Acquired: 1/12/2025 4:51:50 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMZ6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1290188**	**-.008207**	**.7737902**	**.0372022**	**-.004697**	**81.86606**
Stddev	.0016742	.002057	.0044287	.0010915	.000373	.51923
%RSD	1.297630	25.06095	.5723386	2.934056	7.950338	.6342375
#1	.1289006	-.007852	.7753241	.0383588	-.005128	81.26652
#2	.1307490	-.010418	.7772480	.0370578	-.004497	82.16844
#3	.1274069	-.006351	.7687985	.0361901	-.004466	82.16324

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.001117**	**.0058225**	**.0118228**	**27.55908**	**.1411149**	**.1532694**
Stddev	.007313	.0001380	.0000302	.12832	.0005588	.0003676
%RSD	.7305087	2.369999	.2550184	.4656125	.3959697	.2398222
#1	.992924	.0059813	.0117882	27.41101	.1416786	.1534390
#2	1.003441	.0057324	.0118426	27.63788	.1405612	.1528477
#3	1.006986	.0057536	.0118378	27.62835	.1411049	.1535215

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5050400**	**203.1957**	**11.42019**	**22.42624**	**.2739179**	**-.018186**
Stddev	.0040917	.9770	.05381	.10130	.0005516	.000247
%RSD	.8101764	.4808028	.4711970	.4516923	.2013593	1.359001
#1	.5024034	202.0712	11.36000	22.31538	.2733119	-.018472
#2	.5029630	203.8362	11.43693	22.51398	.2743906	-.018047
#3	.5097536	203.6796	11.46364	22.44935	.2740511	-.018040

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6045811**	**.1819205**	**.8783078**	**6.385189**	F **11.42156**	**.8559361**
Stddev	.1044766	.0014047	.0044918	.045698	.05067	.0051728
%RSD	17.28083	.7721735	.5114100	.7156911	.4436348	.6043383
#1	.5889202	.1817490	.8830293	6.332695	11.44751	.8499755
#2	.5088190	.1806094	.8778061	6.416086	11.45400	.8592488
#3	.7160041	.1834031	.8740879	6.406785	11.36317	.8585840

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-05 Acquired: 1/12/2025 4:51:50 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMZ6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0065357	1.429636	8.041113	.0268961	.6533413	.0936033
Stddev	.0002408	.004504	.039112	.0009376	.0032664	.0009472
%RSD	3.685047	.3150195	.4863984	3.485853	.4999570	1.011961
#1	.0068137	1.434278	8.048964	.0278380	.6507767	.0933165
#2	.0064018	1.429345	7.998672	.0268875	.6522285	.0946607
#3	.0063915	1.425284	8.075705	.0259629	.6570187	.0928326

Elem	Sr4077
Units	ppm
Avg	.1213503
Stddev	.0009618
%RSD	.7926004
#1	.1202433
#2	.1219813
#3	.1218264

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3811.965	89868.47	13032.63	4223.855	3266.585
Stddev	3.352	123.32	97.05	16.964	8.543
%RSD	.0879351	.1372224	.7446709	.4016312	.2615318
#1	3808.585	89732.54	12935.18	4209.709	3262.026
#2	3812.022	89973.18	13129.28	4219.193	3261.289
#3	3815.288	89899.69	13033.45	4242.663	3276.441

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-06 Acquired: 1/12/2025 4:55:44 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMZ7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0673937**	**-.005318**	**.3140346**	**.0133833**	**-.001650**	**48.90224**
Stddev	.0024986	.000630	.0015654	.0021712	.001682	.22753
%RSD	3.707470	11.84329	.4984705	16.22317	101.9367	.4652819
#1	.0649422	-.006037	.3138585	.0109057	-.000061	48.88133
#2	.0673020	-.004864	.3156805	.0149541	-.003412	48.68589
#3	.0699368	-.005052	.3125647	.0142901	-.001477	49.13951

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4827220**	**.0036797**	**.0059914**	**707.8836**	**.0816960**	**.0803410**
Stddev	.0023419	.0000798	.0000931	4.7249	.0002695	.0004099
%RSD	.4851473	2.167750	1.553866	.6674623	.3298532	.5102014
#1	.4825033	.0036041	.0060971	702.7397	.0820066	.0808105
#2	.4804971	.0037631	.0059554	712.0302	.0815246	.0800541
#3	.4851656	.0036720	.0059217	708.8809	.0815568	.0801586

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3850789**	**128.2087**	**7.501688**	**51.73911**	**.1564267**	**-.012292**
Stddev	.0007985	.6562	.040333	.17875	.0003501	.000004
%RSD	.2073582	.5117919	.5376465	.3454797	.2238317	.0346967
#1	.3850124	128.1618	7.495909	51.71096	.1562773	-.012289
#2	.3859086	127.5772	7.464557	51.57610	.1561761	-.012289
#3	.3843157	128.8870	7.544599	51.93026	.1568268	-.012297

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7168997**	**.0977103**	**.5206952**	**6.919827**	F **14.43744**	**.5717925**
Stddev	.0860052	.0015433	.0019130	.006878	.02775	.0035704
%RSD	11.99683	1.579426	.3673972	.0994014	.1922105	.6244282
#1	.8115229	.0992742	.5210611	6.921801	14.46641	.5718680
#2	.6434779	.0976683	.5186256	6.912177	14.43482	.5681848
#3	.6956984	.0961885	.5223988	6.925502	14.41109	.5753245

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-06 Acquired: 1/12/2025 4:55:44 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMZ7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030172	1.226113	7.192391	.0070373	.3802682	.0992428
Stddev	.0002621	.005690	.006167	.0004300	.0008457	.0013509
%RSD	8.687975	.4640797	.0857404	6.110337	.2224061	1.361246
#1	.0029330	1.220948	7.191916	.0065408	.3793958	.0986842
#2	.0033111	1.225179	7.198782	.0072805	.3810845	.0982607
#3	.0028075	1.232213	7.186476	.0072907	.3803244	.1007834

Elem	Sr4077
Units	ppm
Avg	.6789303
Stddev	.0034420
%RSD	.5069715
#1	.6785501
#2	.6756942
#3	.6825466

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2963.836	69492.23	10590.02	3236.132	2873.696
Stddev	.389	252.05	71.78	12.355	9.135
%RSD	.0131235	.3627058	.6778216	.3817748	.3178885
#1	2963.482	69773.93	10624.30	3248.721	2866.955
#2	2963.773	69414.75	10507.52	3235.651	2884.093
#3	2964.252	69288.02	10638.23	3224.025	2870.041

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV002 Acquired: 1/12/2025 4:59:49 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV002 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.722824**	**4.812867**	**24.30055**	**4.765018**	**4.687995**	**396.2797**
Stddev	.001471	.023600	.03952	.014604	.009458	3.3465
%RSD	.0311509	.4903495	.1626438	.3064942	.2017407	.8444737
#1	4.722955	4.792295	24.28803	4.748855	4.678322	392.7756
#2	4.721292	4.807675	24.26880	4.768935	4.688442	396.6211
#3	4.724226	4.838630	24.34482	4.777265	4.697221	399.4423

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.15897**	**.4904563**	**2.451529**	**397.1702**	**15.31073**	**2.459332**
Stddev	.03489	.0019002	.005624	2.3676	.04188	.003203
%RSD	.3434674	.3874385	.2293944	.5961258	.2735483	.1302282
#1	10.19721	.4885792	2.448885	395.3203	15.31013	2.458197
#2	10.15081	.4923788	2.447714	399.8384	15.26915	2.456851
#3	10.12887	.4904110	2.457987	396.3518	15.35291	2.462948

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.74748**	**394.1474**	**15.11365**	**246.6393**	**2.458409**	**1.233723**
Stddev	.01615	2.2446	.09325	1.1898	.004577	.000725
%RSD	.1094995	.5694855	.6169824	.4824034	.1861851	.0587993
#1	14.75188	394.6876	15.13728	246.7368	2.454648	1.234010
#2	14.72958	391.6819	15.01086	245.4037	2.457074	1.232899
#3	14.76096	396.0726	15.19281	247.7773	2.463505	1.234262

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**400.0154**	**2.423414**	**15.81770**	**152.5129**	**4.920317**	F **5.879648**
Stddev	1.4598	.002802	.02943	1.0128	.013950	.008467
%RSD	.3649329	.1156376	.1860497	.6640522	.2835221	.1440069
#1	399.4855	2.420498	15.80036	152.7721	4.905481	5.870106
#2	398.8946	2.423659	15.80107	151.3957	4.922302	5.882572
#3	401.6662	2.426087	15.85168	153.3709	4.933169	5.886266

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV002 Acquired: 1/12/2025 4:59:49 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV002 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.689056**	**4.935176**	**4.865181**	**4.886488**	**4.913741**	**5.027312**
Stddev	.003957	.011878	.006386	.013742	.010033	.035110
%RSD	.0843950	.2406814	.1312694	.2812316	.2041918	.6983758
#1	4.685020	4.924464	4.864696	4.876317	4.914952	5.035576
#2	4.689219	4.933114	4.859051	4.881025	4.903156	4.988808
#3	4.692930	4.947950	4.871796	4.902122	4.923113	5.057553

Elem	Sr4077
Units	ppm
Avg	**5.046820**
Stddev	.039773
%RSD	.7880852
#1	5.092284
#2	5.018458
#3	5.029718

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1977.297**	**49930.27**	**7726.869**	**2325.322**	**2670.757**
Stddev	2.868	141.17	13.613	3.196	5.874
%RSD	.1450697	.2827412	.1761766	.1374464	.2199436
#1	1974.790	49880.74	7731.630	2328.023	2667.986
#2	1980.425	50089.53	7711.516	2326.149	2677.504
#3	1976.675	49820.54	7737.463	2321.794	2666.781

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB002 Acquired: 1/12/2025 5:04:07 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB002 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000691**	**-.000511**	**.0013489**	**.0022849**	**.0010374**	**.0090613**	**.0005299**
Stddev	.000922	.000927	.0005899	.0034267	.0006315	.0056681	.0002912
%RSD	133.4870	181.4215	43.73245	149.9749	60.86899	62.55286	54.95795
#1	.000134	.000469	.0006683	.0061872	.0013655	.0038919	.0007658
#2	-.000520	-.000629	.0016660	-.000233	.0003095	.0081697	.0006194
#3	-.001687	-.001374	.0017125	.000900	.0014374	.0151225	.0002044

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000025**	**.0000730**	**.0184441**	**.0004805**	**.0002058**	**-.001495**	**.0201567**
Stddev	.000005	.0000539	.0038852	.0001200	.0000416	.001990	.0077440
%RSD	18.42944	73.86016	21.06499	24.98280	20.19986	133.0898	38.41899
#1	-.000030	.0000128	.0183565	.0006191	.0001586	-.002531	.0112356
#2	-.000025	.0000893	.0146034	.0004133	.0002218	-.002754	.0240885
#3	-.000020	.0001168	.0223724	.0004091	.0002370	.000799	.0251460

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006677**	**.0174809**	**-.000244**	**-.000032**	**-.088927**	**-.001422**	**.0006670**
Stddev	.0001993	.0167284	.000274	.000285	.157375	.000497	.0003053
%RSD	29.84388	95.69539	112.2694	888.4834	176.9704	34.97954	45.76842
#1	.0006172	.0170344	-.000280	.000233	-.073214	-.001990	.0006117
#2	.0004985	.0009802	.000046	.000004	.060001	-.001064	.0003932
#3	.0008873	.0344280	-.000499	-.000334	-.253569	-.001212	.0009962

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1510292**	**-.000142**	**.0024471**	**.0003409**	**.0007385**	**-.000503**	**.0002449**
Stddev	.0316925	.001260	.0010244	.0000965	.0013991	.003922	.0001813
%RSD	20.98436	889.2906	41.86223	28.32168	189.4461	779.7867	74.01533
#1	.1152257	-.001529	.0035849	.0004511	.0019786	.001766	.0001688
#2	.1623737	.000171	.0021580	.0003005	-.000778	.001757	.0001141
#3	.1754882	.000933	.0015982	.0002711	.001015	-.005032	.0004519

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB002 Acquired: 1/12/2025 5:04:07 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB002 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0000954	.0002228	.0000806
Stddev	.0003663	.0005157	.0000424
%RSD	383.9685	231.4696	52.53446
#1	-.000019	-.000127	.0000369
#2	-.000200	-.000020	.0000835
#3	.000505	.000815	.0001215

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2507.540	59062.69	7998.023	2767.535	3567.258
Stddev	8.239	36.35	16.170	5.257	14.447
%RSD	.3285804	.0615474	.2021760	.1899626	.4049842
#1	2506.822	59074.54	8016.474	2763.381	3575.333
#2	2516.115	59091.64	7991.280	2773.446	3575.861
#3	2499.683	59021.90	7986.316	2765.778	3550.579

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-07 Acquired: 1/12/2025 5:08:17 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMZ8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0571522**	**-.008252**	**.2359815**	**.0018400**	**-.000220**	**41.36944**
Stddev	.0005378	.001475	.0019883	.0025412	.000867	.18088
%RSD	.9409212	17.87701	.8425624	138.1127	393.9766	.4372392
#1	.0566257	-.009477	.2351520	-.000936	-.000126	41.18421
#2	.0571304	-.006614	.2382502	.002405	-.001130	41.54563
#3	.0577006	-.008665	.2345423	.004051	.000596	41.37849

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3571252**	**.0032522**	**.0058435**	F **1048.593**	**.0648756**	**.0669572**
Stddev	.0029329	.0000660	.0001042	9.871	.0004879	.0004772
%RSD	.8212406	2.028402	1.783509	.9413166	.7520421	.7126726
#1	.3538012	.0033113	.0057302	1040.457	.0652286	.0667225
#2	.3593485	.0031810	.0058649	1059.574	.0643188	.0666429
#3	.3582257	.0032643	.0059353	1045.748	.0650793	.0675063

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2938096**	**105.2752**	**9.250448**	**137.5199**	**.1380674**	**-.010713**
Stddev	.0033011	.5766	.048651	.7766	.0003948	.000436
%RSD	1.123562	.5477358	.5259311	.5647506	.2859197	4.074276
#1	.2935135	104.7001	9.200433	136.7584	.1384723	-.011073
#2	.2972489	105.8533	9.297609	138.3108	.1380461	-.010228
#3	.2906665	105.2721	9.253302	137.4904	.1376837	-.010839

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.317138**	**.0831407**	**.4690222**	**6.289703**	F **31.41101**	**.4746407**
Stddev	.200761	.0006876	.0003769	.021544	.01987	.0033385
%RSD	15.24223	.8270564	.0803555	.3425256	.0632470	.7033660
#1	1.433879	.0830671	.4694551	6.284311	31.39713	.4715818
#2	1.085321	.0838622	.4687672	6.313430	31.40213	.4782018
#3	1.432214	.0824929	.4688443	6.271366	31.43377	.4741384

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-07 Acquired: 1/12/2025 5:08:17 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMZ8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029847	1.759608	5.458402	.0057047	.4035695	.0984377
Stddev	.0002522	.006099	.001684	.0003701	.0016285	.0015251
%RSD	8.448777	.3466225	.0308444	6.487384	.4035280	1.549295
#1	.0027810	1.764449	5.459869	.0053394	.4030102	.0970117
#2	.0032668	1.752758	5.456564	.0056955	.4054040	.0982558
#3	.0029064	1.761618	5.458773	.0060794	.4022944	.1000455

Elem	Sr4077
Units	ppm
Avg	.9351711
Stddev	.0053653
%RSD	.5737196
#1	.9293422
#2	.9399032
#3	.9362680

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3010.336	73347.85	11040.68	3385.382	2673.851
Stddev	2.496	218.93	41.95	1.885	4.712
%RSD	.0829214	.2984832	.3799486	.0556825	.1762313
#1	3007.455	73513.19	10996.53	3383.335	2669.286
#2	3011.847	73099.57	11045.49	3385.764	2673.571
#3	3011.707	73430.79	11080.01	3387.046	2678.698

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-08 Acquired: 1/12/2025 5:12:23 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN75 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0588870**	**-.002072**	**1.491898**	**.0245013**	**.0002513**	**45.94561**	**.8757355**
Stddev	.0006115	.001146	.000964	.0031243	.0013774	.41015	.0060360
%RSD	1.038338	55.29187	.0645954	12.75169	548.0066	.8926870	.6892508
#1	.0588424	-.000795	1.490828	.0251795	-.000906	45.85371	.8750915
#2	.0595195	-.002409	1.492170	.0210935	-.000114	45.58921	.8700473
#3	.0582991	-.003011	1.492697	.0272308	.001775	46.39392	.8820677

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0035752**	**.0068517**	**153.7431**	**.1110513**	**.0555527**	**.2140002**	**117.7819**
Stddev	.0002222	.0000612	1.0441	.0006444	.0002549	.0022283	.8813
%RSD	6.215777	.8926940	.6791270	.5803060	.4589201	1.041267	.7482510
#1	.0036008	.0069067	153.6172	.1117920	.0556189	.2161246	117.5303
#2	.0037836	.0068625	152.7676	.1107425	.0552712	.2116808	117.0538
#3	.0033413	.0067859	154.8444	.1106194	.0557681	.2141951	118.7617

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.986491**	**37.78924**	**.1368151**	**-.009707**	**.3367139**	**.1133298**	**1.405888**
Stddev	.041545	.23378	.0006643	.000333	.0112937	.0016070	.004512
%RSD	.5946458	.6186410	.4855113	3.435051	3.354084	1.417963	.3209460
#1	6.992335	37.77299	.1374845	-.010051	.3240887	.1150517	1.402032
#2	6.942334	37.56400	.1361561	-.009386	.3401979	.1118699	1.410850
#3	7.024804	38.03072	.1368047	-.009684	.3458551	.1130676	1.404782

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.425477**	**9.431192**	**.5296495**	**.0044686**	**4.046781**	**7.153868**	**.0603027**
Stddev	.111422	.007497	.0051666	.0003300	.014339	.024091	.0007813
%RSD	1.182132	.0794920	.9754700	7.385275	.3543407	.3367603	1.295652
#1	9.326076	9.425961	.5283727	.0041138	4.030402	7.176004	.0611776
#2	9.404438	9.439781	.5252411	.0045255	4.052865	7.157391	.0600556
#3	9.545919	9.427834	.5353348	.0047665	4.057075	7.128210	.0596747

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-08 Acquired: 1/12/2025 5:12:23 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN75 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.7099682	.0722851	.1825787
Stddev	.0011960	.0007436	.0016572
%RSD	.1684618	1.028763	.9076404
#1	.7099758	.0714544	.1818169
#2	.7111604	.0728886	.1814394
#3	.7087684	.0725123	.1844798

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2710.879	64324.31	9364.855	2999.854	3172.294
Stddev	1.860	270.56	50.840	5.106	3.152
%RSD	.0686141	.4206174	.5428805	.1702244	.0993707
#1	2709.735	64269.33	9334.349	3000.188	3169.706
#2	2713.025	64618.14	9336.671	2994.589	3175.805
#3	2709.878	64085.47	9423.545	3004.786	3171.372

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-09 Acquired: 1/12/2025 5:16:20 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN76 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0706173**	**-.003850**	**1.785872**	**.0219128**	**.0011090**	**47.69106**	**1.359660**
Stddev	.0021060	.002685	.002313	.0017445	.0010407	.22211	.001061
%RSD	2.982327	69.72157	.1295182	7.960913	93.83905	.4657262	.0780479
#1	.0713397	-.000791	1.783444	.0215140	.0004883	47.75917	1.359806
#2	.0722671	-.005810	1.788050	.0238221	.0023104	47.44287	1.360640
#3	.0682452	-.004950	1.786122	.0204022	.0005283	47.87114	1.358533

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0038791**	**.0081485**	**371.5877**	**.1081436**	**.0621415**	**.2166292**	**129.6559**
Stddev	.0000520	.0000888	2.3962	.0002413	.0003328	.0008283	.4256
%RSD	1.340639	1.089301	.6448611	.2230836	.5355195	.3823693	.3282791
#1	.0038190	.0080525	374.0119	.1082786	.0622828	.2175656	129.6446
#2	.0039074	.0081653	369.2205	.1082872	.0617614	.2163298	129.2360
#3	.0039108	.0082276	371.5308	.1078651	.0623803	.2159922	130.0871

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.790192**	**41.76081**	**.1369013**	**-.010300**	**.5749595**	**.1234121**	**1.622500**
Stddev	.004248	.12092	.0006212	.000253	.1142368	.0014708	.002567
%RSD	.0433922	.2895630	.4537919	2.454561	19.86866	1.191770	.1582275
#1	9.794684	41.83918	.1362312	-.010029	.5676681	.1240381	1.620103
#2	9.786239	41.62154	.1374580	-.010342	.4645430	.1217318	1.622186
#3	9.789652	41.82170	.1370149	-.010529	.6926672	.1244662	1.625209

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.385491**	**9.035914**	**.5749818**	**.0049424**	**3.426656**	**4.846519**	**.0542375**
Stddev	.041605	.011043	.0023494	.0002442	.007231	.022997	.0013673
%RSD	.4961557	.1222159	.4085984	4.940292	.2110356	.4745109	2.520880
#1	8.355620	9.038615	.5738252	.0051507	3.430623	4.820036	.0557022
#2	8.367840	9.045356	.5734349	.0046737	3.418310	4.861460	.0529948
#3	8.433011	9.023771	.5776852	.0050027	3.431037	4.858059	.0540154

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-09 Acquired: 1/12/2025 5:16:20 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN76 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6475300	.0776181	.5464528
Stddev	.0021933	.0007018	.0034391
%RSD	.3387221	.9042156	.6293446
#1	.6456747	.0783654	.5470709
#2	.6469647	.0769729	.5427467
#3	.6499507	.0775159	.5495410

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2687.399	63129.38	9459.962	2975.208	3055.163
Stddev	2.022	26.05	32.161	2.902	3.458
%RSD	.0752280	.0412651	.3399707	.0975512	.1131733
#1	2687.678	63138.18	9485.625	2977.569	3058.978
#2	2685.253	63149.88	9423.884	2976.086	3052.237
#3	2689.267	63100.06	9470.376	2971.968	3054.274

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-10 Acquired: 1/12/2025 5:20:25 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN77 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0862751**	**-.002228**	**2.300532**	**.0283100**	**.0001477**	**54.37464**	**1.173867**
Stddev	.0021611	.001438	.000757	.0023820	.0007881	.21049	.004656
%RSD	2.504943	64.53110	.0329021	8.413950	533.4788	.3871043	.3966758
#1	.0856650	-.003255	2.299992	.0299164	.0010216	54.18431	1.172255
#2	.0886758	-.000585	2.301397	.0255733	-.000509	54.33891	1.170231
#3	.0844847	-.002844	2.300207	.0294403	-.000070	54.60071	1.179115

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0041760**	**.0086015**	**217.6745**	**.1221953**	**.0702382**	**.2417786**	**145.7641**
Stddev	.0000874	.0000664	.6015	.0003937	.0000840	.0012143	.5641
%RSD	2.092149	.7720335	.2763181	.3221741	.1196286	.5022195	.3870051
#1	.0041873	.0086336	217.3136	.1225178	.0703141	.2429081	145.3387
#2	.0040834	.0086458	217.3410	.1223115	.0702528	.2419333	145.5496
#3	.0042571	.0085252	218.3688	.1217566	.0701479	.2404944	146.4040

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.244260**	**51.58089**	**.1581408**	**-.010737**	**.3895245**	**.1289598**	**1.610209**
Stddev	.028204	.14914	.0004668	.000869	.0885533	.0024789	.001026
%RSD	.3420990	.2891436	.2951658	8.096112	22.73370	1.922210	.0637468
#1	8.225095	51.42878	.1578813	-.011370	.4773431	.1294364	1.609896
#2	8.231039	51.58702	.1578614	-.011095	.3909760	.1262772	1.609376
#3	8.276645	51.72688	.1586797	-.009746	.3002544	.1311657	1.611356

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.904918**	**8.640161**	**.6315994**	**.0068898**	**2.693148**	**5.081885**	**.0819969**
Stddev	.050175	.020284	.0037338	.0003977	.005999	.004552	.0007751
%RSD	.5634491	.2347586	.5911709	5.771771	.2227548	.0895742	.9452133
#1	8.852672	8.663580	.6287485	.0069698	2.699876	5.082224	.0823192
#2	8.909355	8.628767	.6302238	.0064582	2.691211	5.086259	.0811127
#3	8.952727	8.628137	.6358259	.0072414	2.688356	5.077174	.0825587

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-10 Acquired: 1/12/2025 5:20:25 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN77 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6833107	.0825277	.2305814
Stddev	.0017903	.0007803	.0010905
%RSD	.2620082	.9454966	.4729361
#1	.6847354	.0833907	.2297509
#2	.6813011	.0818720	.2301769
#3	.6838957	.0823203	.2318163

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2734.587	64391.27	9563.312	3037.419	3092.815
Stddev	5.674	79.75	25.533	3.281	6.831
%RSD	.2074858	.1238556	.2669939	.1080312	.2208676
#1	2732.852	64417.86	9547.621	3041.208	3086.173
#2	2740.926	64454.33	9549.541	3035.540	3099.820
#3	2729.984	64301.62	9592.775	3035.509	3092.451

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-11 Acquired: 1/12/2025 5:24:21 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN78 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0841260	-.002761	1.542764	.0310651	-.001071	60.76896	1.249816
Stddev	.0015551	.001293	.002485	.0019883	.002057	.08511	.004066
%RSD	1.848484	46.83639	.1610588	6.400471	192.1876	.1400494	.3253208
#1	.0859119	-.002663	1.539897	.0302093	-.000949	60.67915	1.245466
#2	.0830713	-.004101	1.544283	.0296479	.000924	60.77934	1.250461
#3	.0833949	-.001520	1.544112	.0333380	-.003186	60.84841	1.253521

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045659	.0076644	67.19623	.1240522	.0696275	.2239503	144.4761
Stddev	.0000959	.0000680	.15234	.0004774	.0004626	.0025427	.2670
%RSD	2.099390	.8873764	.2267118	.3848505	.6643352	1.135406	.1847967
#1	.0045124	.0076201	67.04688	.1245121	.0691209	.2254960	144.2326
#2	.0045087	.0076303	67.19040	.1235590	.0700274	.2253394	144.4340
#3	.0046765	.0077427	67.35140	.1240854	.0697342	.2210156	144.7616

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.266557	22.75595	.1457422	-.010905	.4910697	.1391598	1.164041
Stddev	.023181	.01555	.0002555	.000355	.3800673	.0013821	.001729
%RSD	.2804141	.0683476	.1753270	3.252307	77.39580	.9931474	.1485564
#1	8.245502	22.74487	.1454852	-.010887	.3784203	.1380576	1.165887
#2	8.262772	22.74925	.1457451	-.010559	.9147276	.1407104	1.163778
#3	8.291397	22.77373	.1459962	-.011268	.1800610	.1387115	1.162459

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.814851	9.043321	.6273455	.0043575	2.493597	6.122652	.1098656
Stddev	.041802	.032850	.0028104	.0001343	.007933	.020764	.0006986
%RSD	.4259065	.3632500	.4479852	3.081906	.3181395	.3391275	.6358797
#1	9.784442	9.014193	.6243634	.0045066	2.485263	6.115380	.1094105
#2	9.797592	9.036843	.6277281	.0043200	2.494470	6.146073	.1106700
#3	9.862519	9.078928	.6299451	.0042460	2.501057	6.106502	.1095162

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-11 Acquired: 1/12/2025 5:24:21 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN78 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.7658383	.0848230	.1405129
Stddev	.0035991	.0012740	.0002446
%RSD	.4699547	1.502004	.1740848
#1	.7630668	.0848034	.1402365
#2	.7699059	.0835588	.1406007
#3	.7645421	.0861067	.1407015

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2842.258	67400.20	9839.529	3206.973	3237.663
Stddev	4.354	98.55	35.287	2.299	8.573
%RSD	.1531923	.1462105	.3586235	.0716788	.2647926
#1	2843.406	67316.44	9803.204	3204.479	3246.232
#2	2845.922	67508.79	9841.707	3207.435	3237.671
#3	2837.444	67375.38	9873.677	3209.006	3229.086

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-12 Acquired: 1/12/2025 5:28:19 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN79 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0660448**	**-.005741**	**.9900787**	**.0259465**	**-.003686**	**56.33236**
Stddev	.0005359	.001593	.0003250	.0033874	.001694	.10079
%RSD	.8114393	27.75736	.0328218	13.05536	45.97178	.1789275
#1	.0660325	-.004261	.9902197	.0251993	-.003708	56.22420
#2	.0655151	-.007428	.9903093	.0229951	-.001980	56.34922
#3	.0665867	-.005533	.9897071	.0296452	-.005369	56.42366

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.160622**	**.0040725**	**.0069403**	**103.3995**	**.1092997**	**.0680772**
Stddev	.003636	.0000680	.0001056	.2242	.0003061	.0002670
%RSD	.3133176	1.669850	1.522179	.2168456	.2800820	.3922364
#1	1.157216	.0041478	.0069548	103.1507	.1089528	.0683631
#2	1.164452	.0040155	.0070380	103.4618	.1094144	.0680343
#3	1.160198	.0040542	.0068282	103.5860	.1095320	.0678342

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1628643**	**140.3808**	**9.215212**	**22.67135**	**.1388034**	**-.011407**
Stddev	.0011630	.3541	.017015	.03055	.0001812	.000240
%RSD	.7140581	.2522327	.1846426	.1347735	.1305059	2.108143
#1	.1633381	140.0054	9.195567	22.64059	.1390125	-.011471
#2	.1615393	140.4281	9.225294	22.70170	.1386949	-.011609
#3	.1637156	140.7088	9.224775	22.67174	.1387028	-.011141

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4809123**	**.1283221**	**.9329820**	**8.444000**	F **12.88643**	**.6078814**
Stddev	.0693405	.0028226	.0010724	.008762	.02469	.0025686
%RSD	14.41853	2.199626	.1149428	.1037692	.1915913	.4225474
#1	.4055933	.1309951	.9318519	8.446430	12.91470	.6054353
#2	.5420960	.1253706	.9331086	8.434279	12.87548	.6076518
#3	.4950475	.1286006	.9339854	8.451290	12.86910	.6105571

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-12 Acquired: 1/12/2025 5:28:19 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN79 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040521	2.286881	6.101722	.0605615	.7073963	.0838456
Stddev	.0003420	.009290	.026358	.0008197	.0021672	.0009441
%RSD	8.440947	.4062324	.4319807	1.353553	.3063612	1.125945
#1	.0040680	2.283673	6.103416	.0613585	.7077951	.0848712
#2	.0037024	2.297350	6.127193	.0597208	.7093364	.0836530
#3	.0043859	2.279620	6.074558	.0606052	.7050574	.0830128

Elem	Sr4077
Units	ppm
Avg	.1889108
Stddev	.0001072
%RSD	.0567316
#1	.1888636
#2	.1890335
#3	.1888354

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3023.280	70163.23	10268.89	3326.600	3283.361
Stddev	2.053	92.31	39.50	11.228	4.316
%RSD	.0678912	.1315666	.3846241	.3375265	.1314499
#1	3020.927	70179.65	10223.51	3339.559	3282.523
#2	3024.702	70246.23	10295.54	3319.760	3288.035
#3	3024.212	70063.81	10287.62	3320.483	3279.526

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-13 Acquired: 1/12/2025 5:32:16 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN80 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0608128	-.004884	.7761733	.0280172	-.005733	61.67354	1.010684
Stddev	.0006142	.000624	.0007768	.0019072	.002188	.06010	.003192
%RSD	1.009994	12.77575	.1000844	6.807077	38.15590	.0974446	.3157903
#1	.0604905	-.004997	.7760933	.0263915	-.004269	61.72126	1.013659
#2	.0615210	-.005443	.7754395	.0301165	-.004684	61.60605	1.011081
#3	.0604268	-.004211	.7769870	.0275435	-.008248	61.69330	1.007313

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039742	.0067926	93.87895	.1234173	.0869070	.1087377	183.2116
Stddev	.0000593	.0000367	.10642	.0002659	.0002733	.0022359	.2510
%RSD	1.491005	.5410612	.1133621	.2154405	.3144974	2.056216	.1370118
#1	.0040039	.0068350	93.99598	.1231647	.0871870	.1067006	183.2030
#2	.0040128	.0067697	93.85289	.1233925	.0868932	.1111298	182.9650
#3	.0039060	.0067731	93.78798	.1236947	.0866409	.1083826	183.4668

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.048637	26.25066	.1924093	-.016977	.4302089	.1477808	.7866450
Stddev	.024734	.05573	.0001340	.000134	.1875207	.0023670	.0042212
%RSD	.3073100	.2122947	.0696201	.7910519	43.58828	1.601710	.5366030
#1	8.060773	26.18633	.1925612	-.017059	.5820188	.1461820	.7909183
#2	8.064959	26.28143	.1923080	-.017049	.4880175	.1505000	.7865388
#3	8.020179	26.28422	.1923588	-.016822	.2205904	.1466604	.7824780

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.626766	8.223879	.7771453	.0021262	.7032333	8.312562	.0072925
Stddev	.016162	.027031	.0009471	.0001220	.0017723	.044010	.0006491
%RSD	.1873487	.3286884	.1218745	5.737649	.2520200	.5294451	8.900993
#1	8.611580	8.252264	.7770472	.0022625	.7018119	8.326401	.0070851
#2	8.624964	8.220930	.7762510	.0020887	.7026690	8.347989	.0067724
#3	8.643753	8.198444	.7781377	.0020273	.7052190	8.263295	.0080200

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-13 Acquired: 1/12/2025 5:32:16 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN80 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.8526590	.1088597	.1331842
Stddev	.0035946	.0011736	.0004862
%RSD	.4215729	1.078041	.3650957
#1	.8539471	.1098554	.1328508
#2	.8554320	.1091579	.1329597
#3	.8485978	.1075659	.1337422

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3095.808	72263.40	10411.98	3393.863	3266.724
Stddev	4.939	173.69	9.03	5.488	6.912
%RSD	.1595467	.2403550	.0866916	.1617126	.2116007
#1	3090.985	72298.06	10415.58	3388.861	3258.746
#2	3100.856	72417.14	10401.70	3399.734	3270.894
#3	3095.583	72074.99	10418.65	3392.994	3270.534

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-14 Acquired: 1/12/2025 5:36:13 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN81 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0573544	-.002275	.6034417	.0332844	-.003454	68.38861	.6786568
Stddev	.0021081	.001804	.0042462	.0003661	.001475	.29857	.0049964
%RSD	3.675577	79.29437	.7036605	1.099857	42.70572	.4365719	.7362214
#1	.0549385	-.002856	.6040026	.0329797	-.004076	68.06139	.6741232
#2	.0588204	-.003718	.5989430	.0331830	-.001770	68.64624	.6840138
#3	.0583044	-.000252	.6073796	.0336905	-.004516	68.45819	.6778334

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041075	.0057564	67.56724	.1406023	.0864055	.1588875	182.3645
Stddev	.0000091	.0001202	.21090	.0004137	.0001127	.0011794	.6342
%RSD	.2217661	2.088683	.3121387	.2941973	.1304241	.7423060	.3477591
#1	.0041152	.0056993	67.35124	.1407716	.0863418	.1584280	181.7634
#2	.0040974	.0056753	67.77265	.1409044	.0863392	.1602276	183.0272
#3	.0041098	.0058945	67.57782	.1401308	.0865357	.1580071	182.3031

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.100798	39.66918	.2033377	-.017558	.5169015	.1523539	.7718413
Stddev	.016608	.06654	.0003595	.000181	.0602846	.0016853	.0036584
%RSD	.4049861	.1677251	.1767817	1.030648	11.66269	1.106147	.4739826
#1	4.087254	39.61424	.2032385	-.017488	.4859434	.1539909	.7677056
#2	4.119327	39.74316	.2030383	-.017422	.4783857	.1524465	.7731634
#3	4.095812	39.65014	.2037364	-.017763	.5863753	.1506242	.7746548

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.058260	8.986980	.7727674	.0012677	.9484937	3.699784	.0199818
Stddev	.084356	.013201	.0028735	.0000652	.0019214	.020815	.0007278
%RSD	.9312650	.1468849	.3718383	5.145032	.2025717	.5626126	3.642501
#1	8.990634	8.997521	.7710571	.0013274	.9501574	3.700108	.0197918
#2	9.152786	8.972175	.7760848	.0011981	.9463908	3.720435	.0193678
#3	9.031361	8.991246	.7711602	.0012777	.9489330	3.678808	.0207858

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-14 Acquired: 1/12/2025 5:36:13 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN81 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.057535	.1234818	.1245551
Stddev	.001704	.0015147	.0004502
%RSD	.1611583	1.226663	.3614324
#1	1.059450	.1222743	.1240550
#2	1.056968	.1251813	.1246820
#3	1.056186	.1229898	.1249282

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3175.010	73855.41	10593.27	3451.862	3307.627
Stddev	1.403	189.52	54.56	2.457	1.852
%RSD	.0441749	.2566033	.5150404	.0711818	.0560031
#1	3176.526	73740.01	10533.50	3451.711	3309.278
#2	3173.759	73752.09	10605.91	3449.484	3305.624
#3	3174.745	74074.13	10640.40	3454.391	3307.979

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-15 Acquired: 1/12/2025 5:40:10 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN81D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0576918**	**-.002608**	**.6125607**	**.0288845**	**-.003114**	**67.31012**	**.6570327**
Stddev	.0013194	.001437	.0009879	.0018287	.001573	.24973	.0053868
%RSD	2.286982	55.07485	.1612700	6.331064	50.50564	.3710210	.8198714
#1	.0581313	-.004172	.6117403	.0275623	-.004910	67.59804	.6624626
#2	.0562087	-.002305	.6136573	.0309715	-.002443	67.15221	.6569455
#3	.0587353	-.001347	.6122845	.0281198	-.001988	67.18013	.6516900

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0040388**	**.0061695**	**66.03542**	**.1413089**	**.0883600**	**.1560146**	**177.6818**
Stddev	.0000777	.0000431	.35705	.0006352	.0002429	.0016968	.7119
%RSD	1.923380	.6993618	.5406896	.4495029	.2748940	1.087611	.4006727
#1	.0039734	.0061903	66.44439	.1406661	.0884102	.1577905	178.4896
#2	.0041247	.0061199	65.87610	.1419362	.0885739	.1544097	177.1457
#3	.0040184	.0061983	65.78577	.1413245	.0880959	.1558436	177.4102

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.967371**	**38.47584**	**.2071413**	**-.017810**	**.6465489**	**.1505649**	**.7619536**
Stddev	.031863	.21910	.0005005	.000487	.0479791	.0016473	.0039351
%RSD	.8031343	.5694357	.2416350	2.733352	7.420796	1.094102	.5164465
#1	4.002809	38.71494	.2065761	-.017706	.5963254	.1515016	.7609017
#2	3.958221	38.28469	.2075284	-.017383	.6919138	.1486628	.7586515
#3	3.941084	38.42789	.2073194	-.018340	.6514075	.1515304	.7663078

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.078048**	**9.266152**	**.7499946**	**.0012396**	**.9772544**	**7.233376**	**.0205165**
Stddev	.069181	.010507	.0021135	.0001109	.0006381	.025576	.0005015
%RSD	.7620652	.1133941	.2817987	8.948428	.0652958	.3535807	2.444463
#1	9.074904	9.274167	.7522558	.0012081	.9777762	7.257651	.0204150
#2	9.010494	9.270033	.7480690	.0011478	.9774440	7.235804	.0200734
#3	9.148748	9.254257	.7496588	.0013628	.9765429	7.206672	.0210610

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-15 Acquired: 1/12/2025 5:40:10 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN81D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.080373	.1191628	.1258510
Stddev	.004611	.0019075	.0005125
%RSD	.4267590	1.600762	.4072256
#1	1.083273	.1203884	.1263972
#2	1.082790	.1201349	.1253807
#3	1.075057	.1169650	.1257751

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3143.523	75361.13	10631.00	3502.546	3249.493
Stddev	4.435	87.29	34.05	14.796	3.019
%RSD	.1410698	.1158225	.3203005	.4224308	.0929063
#1	3141.627	75265.65	10658.72	3498.646	3250.956
#2	3140.352	75380.93	10592.99	3518.901	3246.021
#3	3148.591	75436.82	10641.29	3490.091	3251.502

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-14LX5 Acquired: 1/12/2025 5:44:08 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN81L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0121771	.0002209	.1258772	.0090639	-.001232	16.28093	.1596579
Stddev	.0016021	.0011674	.0021446	.0024112	.001130	.11575	.0018009
%RSD	13.15694	528.4599	1.703698	26.60231	91.77570	.7109846	1.128008
#1	.0110843	-.001070	.1278204	.0117210	-.000476	16.28642	.1605869
#2	.0140162	.001202	.1262351	.0084558	-.000688	16.16252	.1575821
#3	.0114308	.000531	.1235763	.0070150	-.002531	16.39384	.1608046

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010160	.0008444	16.39994	.0350828	.0175352	.0396090	44.50495
Stddev	.0000157	.0000598	.11805	.0004270	.0001716	.0017670	.38020
%RSD	1.545128	7.080516	.7197919	1.217219	.9785460	4.461191	.8542937
#1	.0010338	.0007975	16.42644	.0354766	.0177101	.0382212	44.54998
#2	.0010096	.0009117	16.27090	.0346289	.0173671	.0390075	44.10424
#3	.0010044	.0008239	16.50248	.0351431	.0175284	.0415983	44.86064

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.000625	9.551806	.0416681	-.004611	.0919493	.0361049	.1910094
Stddev	.008370	.046700	.0004572	.000305	.1452964	.0006752	.0002813
%RSD	.8364544	.4889162	1.097234	6.614052	158.0179	1.870036	.1472783
#1	1.002053	9.527271	.0419891	-.004640	.0792392	.0365485	.1907672
#2	.991633	9.522486	.0418706	-.004900	.2431832	.0353279	.1909432
#3	1.008188	9.605660	.0411446	-.004292	-.046574	.0364384	.1913180

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.423146	1.861599	.1851043	.0002925	.2005941	1.373674	.0027129
Stddev	.040381	.011443	.0017725	.0001494	.0054032	.006037	.0002054
%RSD	1.666452	.6146620	.9575392	51.07784	2.693617	.4394532	7.569582
#1	2.441975	1.855533	.1851783	.0004289	.1943911	1.375116	.0026431
#2	2.450673	1.854466	.1832960	.0003158	.2031156	1.367047	.0029441
#3	2.376790	1.874797	.1868385	.0001328	.2042757	1.378859	.0025516

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-14LX5 Acquired: 1/12/2025 5:44:08 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN81L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2687768	.0294945	.0300456
Stddev	.0016413	.0002910	.0003164
%RSD	.6106542	.9864619	1.053125
#1	.2696917	.0291622	.0300434
#2	.2697566	.0297034	.0297303
#3	.2668819	.0296179	.0303631

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2646.463	62805.56	8602.502	2940.059	3440.203
Stddev	4.840	195.08	46.596	5.890	1.885
%RSD	.1828690	.3106153	.5416581	.2003193	.0547818
#1	2642.607	62668.72	8567.369	2933.408	3440.210
#2	2644.887	63028.95	8584.778	2942.155	3442.085
#3	2651.894	62719.02	8655.360	2944.614	3438.315

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-16 Acquired: 1/12/2025 5:48:09 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN81S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1134935	.1008979	.6460685	.1681937	.1318135	69.85765	3.609535
Stddev	.0017267	.0023444	.0020849	.0018942	.0021677	.23374	.019902
%RSD	1.521412	2.323569	.3227105	1.126200	1.644494	.3345988	.5513769
#1	.1122207	.0997662	.6478627	.1690571	.1306394	69.68973	3.596401
#2	.1154590	.0993340	.6437812	.1695024	.1304861	69.75862	3.599770
#3	.1128007	.1035935	.6465615	.1660217	.1343149	70.12461	3.632433

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0855791	.1070469	65.72185	.4845901	1.105119	.5368544	178.1495
Stddev	.0003937	.0004159	.29889	.0008582	.002125	.0023748	.7454
%RSD	.4600900	.3885515	.4547858	.1771012	.1922493	.4423493	.4183998
#1	.0857126	.1068297	65.49579	.4836707	1.103849	.5387112	177.5680
#2	.0858888	.1067845	65.60903	.4853700	1.103935	.5376734	177.8909
#3	.0851360	.1075264	66.06074	.4847295	1.107571	.5341785	178.9898

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.658298	38.24682	1.223602	.0429165	.5186184	.9371156	1.662737
Stddev	.021143	.15297	.002207	.0003134	.1302126	.0019711	.003553
%RSD	.4538729	.3999423	.1803590	.7302175	25.10759	.2103397	.2136591
#1	4.641266	38.12020	1.224760	.0427332	.5695495	.9385185	1.658636
#2	4.651668	38.20348	1.221057	.0432784	.3706382	.9379663	1.664853
#3	4.681962	38.41678	1.224989	.0427381	.6156674	.9348620	1.664723

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.108865	9.160942	.7547281	.0011095	.9679377	7.432839	.0195817
Stddev	.047770	.048286	.0024843	.0005085	.0073120	.013842	.0007008
%RSD	.5244375	.5270901	.3291595	45.82963	.7554202	.1862267	3.578903
#1	9.054060	9.127461	.7527742	.0016785	.9626496	7.447695	.0198913
#2	9.130854	9.139072	.7538862	.0006999	.9648816	7.430518	.0187795
#3	9.141680	9.216294	.7575239	.0009499	.9762820	7.420304	.0200745

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-16 Acquired: 1/12/2025 5:48:09 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN81S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.059736	.1163775	.1265012
Stddev	.000385	.0004188	.0005081
%RSD	.0363636	.3598601	.4016548
#1	1.059489	.1161476	.1261018
#2	1.060180	.1161240	.1263287
#3	1.059540	.1168609	.1270731

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3138.260	73625.15	10489.46	3451.161	3257.580
Stddev	3.600	201.19	25.29	10.116	6.134
%RSD	.1147102	.2732604	.2410692	.2931325	.1883051
#1	3139.086	73730.02	10469.92	3459.805	3258.441
#2	3141.376	73752.23	10480.44	3453.642	3263.238
#3	3134.319	73393.19	10518.02	3440.034	3251.060

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-17 Acquired: 1/12/2025 5:52:02 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN96 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0607386	-.002620	1.117761	.0173172	.0329787	33.17299	.5368013
Stddev	.0007461	.000304	.002705	.0019869	.0032583	.13476	.0040672
%RSD	1.228409	11.59245	.2419871	11.47343	9.879923	.4062456	.7576771
#1	.0599385	-.002326	1.116165	.0151878	.0303814	33.03164	.5324598
#2	.0608619	-.002932	1.120884	.0191214	.0366347	33.30003	.5405231
#3	.0614154	-.002600	1.116234	.0176426	.0319202	33.18730	.5374211

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028039	.0075153	270.6732	.1073282	.0467764	.4173455	98.20938
Stddev	.0001418	.0001309	1.7520	.0004676	.0002676	.0022559	.46709
%RSD	5.057670	1.741076	.6472886	.4356262	.5721385	.5405321	.4756100
#1	.0027895	.0075094	268.7724	.1067956	.0465660	.4199205	97.73935
#2	.0026699	.0073875	272.2235	.1076711	.0466856	.4163988	98.67348
#3	.0029524	.0076490	271.0237	.1075177	.0470776	.4157173	98.21531

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.409694	76.82811	.1594248	-.008794	.6744086	.0900643	1.568659
Stddev	.042759	.41473	.0007682	.000232	.1455260	.0006806	.005686
%RSD	.9696622	.5398094	.4818371	2.643505	21.57832	.7556616	.3624962
#1	4.364789	76.37964	.1585403	-.008901	.6599760	.0894175	1.562153
#2	4.449923	77.19779	.1599247	-.008953	.8266132	.0907742	1.571147
#3	4.414369	76.90689	.1598094	-.008527	.5366367	.0900011	1.572678

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.118415	8.239795	.4634803	.0061760	6.080119	3.802584	.0547884
Stddev	.104899	.002202	.0018824	.0003464	.006198	.002375	.0005380
%RSD	1.292115	.0267225	.4061459	5.608429	.1019335	.0624507	.9820326
#1	7.997778	8.242337	.4615613	.0062597	6.073179	3.805267	.0549429
#2	8.188162	8.238476	.4653238	.0057955	6.085101	3.801733	.0541900
#3	8.169306	8.238572	.4635559	.0064729	6.082078	3.800751	.0552323

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-17 Acquired: 1/12/2025 5:52:02 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN96 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.5617802	.0556940	.2907255
Stddev	.0016723	.0005321	.0007373
%RSD	.2976804	.9553649	.2536094
#1	.5628404	.0551771	.2900329
#2	.5626478	.0556648	.2915006
#3	.5598524	.0562400	.2906431

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2594.368	60942.38	8926.097	2840.338	3118.129
Stddev	5.294	174.67	38.751	13.207	3.021
%RSD	.2040600	.2866212	.4341284	.4649903	.0968755
#1	2590.918	61107.60	8881.442	2855.431	3121.272
#2	2600.463	60759.58	8945.962	2834.686	3117.870
#3	2591.722	60959.95	8950.888	2830.898	3115.247

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-18 Acquired: 1/12/2025 5:55:59 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN97 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0862404**	**-.005818**	**1.300610**	**.0236782**	**.0274647**	**47.26067**	**.6658393**
Stddev	.0028028	.002017	.002348	.0005924	.0020391	.02888	.0025259
%RSD	3.249998	34.66942	.1805681	2.501881	7.424486	.0611025	.3793478
#1	.0832834	-.005240	1.298516	.0241107	.0262181	47.28457	.6682163
#2	.0888582	-.008061	1.300163	.0230030	.0263581	47.26885	.6631871
#3	.0865796	-.004153	1.303149	.0239210	.0298179	47.22858	.6661144

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0038011**	**.0097050**	**422.8099**	**.1367300**	**.0644368**	**.5328910**	**145.6706**
Stddev	.0000654	.0000438	.6487	.0004866	.0001451	.0023332	.0860
%RSD	1.720530	.4515087	.1534189	.3559034	.2252126	.4378283	.0590215
#1	.0038032	.0096576	422.9615	.1362821	.0644677	.5334334	145.5713
#2	.0038655	.0097440	422.0989	.1366602	.0642787	.5303344	145.7208
#3	.0037347	.0097132	423.3694	.1372478	.0645639	.5349052	145.7197

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.243640**	**86.45027**	**.2102556**	**-.012387**	**1.043877**	**.1237329**	**1.725764**
Stddev	.012860	.14116	.0002569	.000291	.133082	.0032981	.008517
%RSD	.2059738	.1632808	.1222064	2.351824	12.74878	2.665520	.4935301
#1	6.258325	86.29528	.2100136	-.012093	1.156782	.1222224	1.724026
#2	6.238211	86.57146	.2102278	-.012675	.897147	.1214605	1.718250
#3	6.234385	86.48408	.2105253	-.012392	1.077702	.1275157	1.735016

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.386670**	**8.175061**	**.6635094**	**.0059708**	**4.824213**	**6.401447**	**.1013139**
Stddev	.057800	.007563	.0002763	.0002123	.007473	.037865	.0001772
%RSD	.6157647	.0925178	.0416468	3.555938	.1549138	.5915027	.1749044
#1	9.378586	8.169679	.6632765	.0062065	4.816686	6.442165	.1012437
#2	9.333338	8.171796	.6634370	.0057946	4.824319	6.367294	.1011825
#3	9.448087	8.183708	.6638148	.0059112	4.831632	6.394882	.1015154

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-18 Acquired: 1/12/2025 5:55:59 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN97 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.7179593	.0863692	.6282612
Stddev	.0009268	.0002414	.0014651
%RSD	.1290905	.2794764	.2332021
#1	.7185313	.0865409	.6265732
#2	.7168900	.0864736	.6290067
#3	.7184567	.0860932	.6292035

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2666.194	62225.30	9415.191	2904.929	3050.093
Stddev	2.189	96.80	21.416	6.916	4.121
%RSD	.0821152	.1555616	.2274632	.2380689	.1351152
#1	2667.369	62319.31	9425.954	2908.595	3051.310
#2	2667.545	62125.93	9429.091	2909.239	3053.468
#3	2663.668	62230.64	9390.528	2896.952	3045.500

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-19 Acquired: 1/12/2025 6:00:01 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN98 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0859382**	**-.002955**	**.6162799**	**.0197205**	**.0034959**	**43.93038**	**.6398070**
Stddev	.0027043	.002381	.0021214	.0037212	.0024096	.19429	.0041259
%RSD	3.146859	80.56094	.3442243	18.86967	68.92449	.4422694	.6448610
#1	.0888202	-.002531	.6141336	.0174303	.0060820	43.71926	.6352120
#2	.0855383	-.005520	.6163306	.0240142	.0030919	43.97023	.6431940
#3	.0834560	-.000815	.6183754	.0177171	.0013140	44.10166	.6410151

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0045708**	**.0054383**	**488.2660**	**.0903106**	**.0596747**	**.3470533**	**135.8028**
Stddev	.0000207	.0001293	5.3424	.0002043	.0003330	.0020238	.5558
%RSD	.4535460	2.376591	1.094160	.2262080	.5580950	.5831361	.4092375
#1	.0045470	.0055555	483.5173	.0904179	.0595262	.3458508	135.2491
#2	.0045850	.0052997	487.2304	.0904388	.0594417	.3459193	135.7988
#3	.0045804	.0054597	494.0504	.0900750	.0600561	.3493898	136.3606

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.608300**	**61.23507**	**.1599148**	**-.012856**	**1.018553**	**.1086321**	**1.156462**
Stddev	.010906	.34546	.0010622	.000129	.222176	.0037240	.000888
%RSD	.3022406	.5641611	.6641970	1.000336	21.81292	3.428070	.0768110
#1	3.596261	60.96995	.1592928	-.012763	1.236270	.1057321	1.156243
#2	3.617519	61.10951	.1593104	-.012803	.792171	.1128317	1.155704
#3	3.611119	61.62576	.1611412	-.013003	1.027218	.1073323	1.157440

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.712862**	**4.325298**	**.6140071**	**.0055589**	**4.839664**	**5.031670**	**.0454254**
Stddev	.078659	.007259	.0025662	.0003341	.001103	.003773	.0001185
%RSD	1.171761	.1678161	.4179395	6.009472	.0227878	.0749802	.2609012
#1	6.626099	4.316996	.6117772	.0051993	4.839410	5.034388	.0453017
#2	6.779509	4.328454	.6134321	.0058595	4.838711	5.033260	.0455380
#3	6.732978	4.330445	.6168120	.0056180	4.840873	5.027363	.0454366

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-19 Acquired: 1/12/2025 6:00:01 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN98 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**1.426676**	**.0741534**	**1.048763**
Stddev	.001521	.0016248	.005940
%RSD	.1066288	2.191119	.5664144
#1	1.428433	.0755094	1.042434
#2	1.425819	.0723525	1.049635
#3	1.425778	.0745983	1.054218

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2585.599**	**61138.91**	**9202.790**	**2849.225**	**2991.237**
Stddev	1.803	209.39	35.842	12.240	4.136
%RSD	.0697219	.3424795	.3894680	.4295793	.1382640
#1	2584.884	61241.33	9161.891	2846.766	2995.844
#2	2584.264	61277.37	9228.727	2862.507	2987.843
#3	2587.650	60898.02	9217.752	2838.401	2990.025

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-20 Acquired: 1/12/2025 6:04:05 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN99 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1107916	-.005717	.7347902	.0299515	.0024404	52.83061	1.040965
Stddev	.0005818	.001039	.0015907	.0042871	.0015139	.26038	.006490
%RSD	.5251307	18.17787	.2164814	14.31337	62.03522	.4928576	.6234151
#1	.1112920	-.006911	.7362511	.0348557	.0037159	53.08575	1.046174
#2	.1101532	-.005011	.7330956	.0280828	.0007674	52.84081	1.043026
#3	.1109295	-.005230	.7350238	.0269160	.0028379	52.56529	1.033695

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045281	.0080435	168.5621	.0953548	.0872312	.2905090	156.6180
Stddev	.0000890	.0000085	.7367	.0004614	.0003102	.0057575	.7516
%RSD	1.965494	.1056962	.4370492	.4839099	.3556019	1.981859	.4799126
#1	.0045997	.0080445	169.2385	.0956703	.0869929	.2968807	157.3603
#2	.0045562	.0080515	168.6706	.0948252	.0875820	.2889663	156.6364
#3	.0044284	.0080346	167.7772	.0955688	.0871189	.2856801	155.8574

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.56298	40.10264	.1489946	-.013047	.7101855	.1372356	.7456220
Stddev	.04956	.08177	.0004973	.000142	.0591954	.0030284	.0030754
%RSD	.4286149	.2039114	.3337778	1.087704	8.335196	2.206695	.4124670
#1	11.60509	40.16094	.1486204	-.012934	.6985906	.1386800	.7486989
#2	11.57549	40.13782	.1495589	-.013206	.7743205	.1392715	.7456192
#3	11.50836	40.00917	.1488044	-.013000	.6576456	.1337555	.7425480

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.485042	5.801305	.6589954	.0075187	2.879718	2.612595	.0471548
Stddev	.058799	.009836	.0031356	.0003763	.002148	.029904	.0007977
%RSD	.9066791	.1695507	.4758083	5.004781	.0745776	1.144622	1.691705
#1	6.550317	5.812214	.6625140	.0072028	2.879330	2.632501	.0464367
#2	6.468582	5.798588	.6579752	.0079350	2.882034	2.627077	.0470144
#3	6.436228	5.793113	.6564970	.0074182	2.877792	2.578206	.0480134

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-20 Acquired: 1/12/2025 6:04:05 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN99 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6302334	.0780552	.2334332
Stddev	.0091204	.0012518	.0013156
%RSD	1.447144	1.603770	.5635704
#1	.6349011	.0778647	.2347998
#2	.6360751	.0793913	.2333245
#3	.6197239	.0769095	.2321754

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2957.075	71354.56	10364.75	3309.208	3186.687
Stddev	3.354	137.33	101.86	2.794	.664
%RSD	.1134116	.1924615	.9827269	.0844371	.0208500
#1	2955.945	71198.66	10318.67	3311.813	3186.830
#2	2960.848	71407.42	10294.08	3306.257	3187.268
#3	2954.433	71457.60	10481.51	3309.553	3185.963

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-21 Acquired: 1/12/2025 6:08:02 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNA0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1135551	-.010259	.6441491	.0330409	-.002182	56.01576	.8335522
Stddev	.0022795	.001692	.0024024	.0030783	.000226	.36918	.0073718
%RSD	2.007385	16.48911	.3729503	9.316625	10.36126	.6590603	.8843811
#1	.1126887	-.012201	.6466390	.0335893	-.002108	55.59515	.8251675
#2	.1118359	-.009477	.6418450	.0358082	-.002003	56.28613	.8364739
#3	.1161408	-.009100	.6439632	.0297253	-.002436	56.16600	.8390154

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053505	.0104740	126.2323	.0900093	.1105047	.2467874	174.8903
Stddev	.0001295	.0001011	.8061	.0005542	.0005634	.0009603	1.0287
%RSD	2.420457	.9649280	.6386049	.6156770	.5098000	.3891187	.5881722
#1	.0054102	.0105904	125.3067	.0901066	.1111552	.2464842	173.7136
#2	.0052019	.0104238	126.7806	.0894129	.1101788	.2478628	175.6188
#3	.0054394	.0104080	126.6095	.0905084	.1101801	.2460154	175.3384

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.44827	28.26823	.1450167	-.014350	.8456082	.1355929	.7715787
Stddev	.09686	.10078	.0004801	.000346	.1376225	.0011690	.0013957
%RSD	.6269709	.3565100	.3310871	2.407807	16.27497	.8621728	.1808865
#1	15.34085	28.15873	.1455626	-.014410	.7228569	.1366614	.7731192
#2	15.47504	28.35709	.1446602	-.014661	.9943855	.1343442	.7712183
#3	15.52893	28.28887	.1448271	-.013978	.8195823	.1357730	.7703985

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.415739	8.464244	.7308865	.0062173	2.482900	4.455384	.0328141
Stddev	.058962	.015160	.0069079	.0002208	.009258	.028670	.0009610
%RSD	1.088710	.1791116	.9451449	3.552067	.3728532	.6434939	2.928772
#1	5.349292	8.480932	.7229459	.0060130	2.492830	4.442301	.0331953
#2	5.461809	8.460479	.7355125	.0061873	2.474508	4.435590	.0317210
#3	5.436118	8.451321	.7342010	.0064516	2.481361	4.488262	.0335261

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-21 Acquired: 1/12/2025 6:08:02 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNA0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.5538418	.0577874	.1903597
Stddev	.0029468	.0009916	.0014822
%RSD	.5320608	1.715984	.7786394
#1	.5528757	.0568556	.1887829
#2	.5514994	.0576772	.1917245
#3	.5571504	.0588296	.1905718

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3189.066	76086.62	10842.82	3518.586	3177.696
Stddev	5.418	202.92	75.40	2.973	5.056
%RSD	.1699031	.2666945	.6953852	.0844985	.1591227
#1	3191.901	76258.20	10779.63	3518.147	3173.663
#2	3182.818	76139.04	10926.28	3521.754	3176.057
#3	3192.478	75862.64	10822.54	3515.856	3183.369

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-22 Acquired: 1/12/2025 6:11:59 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNC2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0797301	-.002504	3.658696	.0359461	.0071142	39.14588
Stddev	.0006969	.001047	.006234	.0016898	.0028425	.16230
%RSD	.8740360	41.83008	.1703817	4.700944	39.95565	.4146057
#1	.0805343	-.001484	3.651951	.0372984	.0041511	39.19703
#2	.0793034	-.003577	3.659892	.0340518	.0073729	39.27645
#3	.0793527	-.002451	3.664245	.0364881	.0098185	38.96417

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9713873	.0032341	.0114218	196.0807	.1283871	.0622461
Stddev	.0072326	.0001136	.0000708	.7893	.0003420	.0006661
%RSD	.7445686	3.513941	.6195781	.4025165	.2664172	1.070143
#1	.9766438	.0032657	.0113586	196.5700	.1285876	.0629788
#2	.9743793	.0033286	.0114085	196.5019	.1279921	.0616770
#3	.9631387	.0031080	.0114982	195.1702	.1285815	.0620825

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5980845	167.5276	4.310043	52.98343	.1989503	-.013528
Stddev	.0048965	.4374	.026180	.06920	.0008501	.000247
%RSD	.8186922	.2610815	.6074241	.1306034	.4273082	1.823267
#1	.5924342	167.7988	4.330941	53.02979	.1984157	-.013342
#2	.6010862	167.7611	4.318511	53.01661	.1985045	-.013434
#3	.6007331	167.0231	4.280677	52.90389	.1999306	-.013808

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6112817	.1177149	5.258543	6.931846	F 13.11080	.7363557
Stddev	.0764333	.0025185	.007852	.049743	.05219	.0020142
%RSD	12.50378	2.139469	.1493195	.7175968	.3980392	.2735324
#1	.6882483	.1166664	5.256226	6.950296	13.05254	.7369304
#2	.6102038	.1158900	5.252111	6.969727	13.12660	.7380200
#3	.5353930	.1205882	5.267293	6.875514	13.15326	.7341166

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-22 Acquired: 1/12/2025 6:11:59 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNC2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0065538	7.071884	7.863780	.6541358	.7053510	.0678606
Stddev	.0000477	.041844	.028774	.0017986	.0032197	.0006933
%RSD	.7274762	.5916977	.3659115	.2749605	.4564719	1.021594
#1	.0066052	7.026283	7.879438	.6527227	.7025445	.0677618
#2	.0065451	7.080849	7.881331	.6535244	.7088660	.0685979
#3	.0065110	7.108518	7.830572	.6561605	.7046426	.0672220

Elem	Sr4077
Units	ppm
Avg	.3715313
Stddev	.0008310
%RSD	.2236641
#1	.3718482
#2	.3721573
#3	.3705885

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2653.341	64510.28	9048.495	2948.606	3211.603
Stddev	7.048	83.41	24.301	4.944	8.024
%RSD	.2656340	.1292924	.2685594	.1676862	.2498592
#1	2654.125	64414.91	9073.246	2946.482	3216.353
#2	2659.965	64546.35	9047.568	2954.258	3216.119
#3	2645.934	64569.58	9024.671	2945.079	3202.339

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-01 Acquired: 1/12/2025 6:15:52 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN68 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0427157**	**-.001216**	**.3054178**	**.0225192**	**.0004136**	**56.94597**
Stddev	.0004362	.003300	.0025682	.0021618	.0009479	.41220
%RSD	1.021203	271.4520	.8408966	9.599881	229.1651	.7238452
#1	.0432183	.001922	.3027257	.0203485	.0000865	56.60437
#2	.0424353	-.004656	.3056868	.0225369	.0014818	57.40381
#3	.0424935	-.000913	.3078410	.0246720	-.000327	56.82973

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6531618**	**.0029717**	**.0042326**	**33.30112**	**.1093819**	**.0514587**
Stddev	.0070178	.0001078	.0000201	.23788	.0003643	.0002508
%RSD	1.074431	3.626890	.4739549	.7143413	.3330880	.4873699
#1	.6475431	.0030961	.0042110	33.09687	.1094546	.0515170
#2	.6610280	.0029135	.0042361	33.56231	.1097044	.0511839
#3	.6509144	.0029056	.0042507	33.24418	.1089867	.0516752

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1366706**	**107.7175**	**3.607638**	**16.94882**	**.1384997**	**-.009567**
Stddev	.0006371	.7546	.027699	.10004	.0004984	.000389
%RSD	.4661416	.7004943	.7677883	.5902482	.3598525	4.066961
#1	.1359484	107.1619	3.585085	16.90061	.1379716	-.009865
#2	.1369108	108.5766	3.638556	17.06384	.1389618	-.009127
#3	.1371527	107.4141	3.599274	16.88201	.1385656	-.009710

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2536527**	**.1223123**	**.4967156**	**5.620333**	**8.075321**	**.4570131**
Stddev	.2100959	.0021103	.0016526	.075953	.028669	.0036748
%RSD	82.82816	1.725360	.3327086	1.351401	.3550173	.8040848
#1	.4811026	.1241583	.4977341	5.541929	8.044340	.4550416
#2	.0668511	.1200117	.4976039	5.693572	8.080711	.4612529
#3	.2130046	.1227668	.4948088	5.625496	8.100912	.4547448

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-01 Acquired: 1/12/2025 6:15:52 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN68 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0054254	2.849076	F 18.28618	.0156866	.9377241	.0598546
Stddev	.0001626	.016870	.07122	.0009717	.0022774	.0002451
%RSD	2.997145	.5921222	.3894543	6.194135	.2428662	.4094114
#1	.0052519	2.830846	18.34517	.0166253	.9403403	.0599514
#2	.0055743	2.852247	18.20707	.0146851	.9361855	.0600364
#3	.0054501	2.864136	18.30631	.0157495	.9366465	.0595759

Elem	Sr4077
Units	ppm
Avg	.0739371
Stddev	.0005787
%RSD	.7826206
#1	.0735112
#2	.0745959
#3	.0737043

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2759.033	66455.68	9342.200	3078.813	3390.255
Stddev	4.163	165.14	79.676	19.689	7.475
%RSD	.1508865	.2484916	.8528590	.6394977	.2204866
#1	2761.748	66485.88	9262.592	3094.127	3396.888
#2	2761.111	66277.54	9421.944	3056.604	3391.721
#3	2754.240	66603.64	9342.065	3085.708	3382.155

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-02 Acquired: 1/12/2025 6:19:49 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN69 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0564200**	**-.000895**	**.3471100**	**.0335989**	**-.002876**	**74.10778**
Stddev	.0018950	.000317	.0004733	.0031218	.001542	.25590
%RSD	3.358797	35.43639	.1363625	9.291222	53.62046	.3453026
#1	.0543184	-.001096	.3469993	.0319012	-.004245	74.05076
#2	.0569429	-.000529	.3476289	.0316939	-.001205	73.88520
#3	.0579986	-.001058	.3467018	.0372016	-.003177	74.38737

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8251341**	**.0038052**	**.0055172**	**47.12315**	**.1480668**	**.0665174**
Stddev	.0012053	.0001020	.0000715	.14412	.0004584	.0004940
%RSD	.1460695	2.680639	1.296697	.3058276	.3096140	.7426764
#1	.8250051	.0038432	.0054646	47.15756	.1481515	.0663191
#2	.8239986	.0038828	.0055987	46.96494	.1475719	.0661533
#3	.8263987	.0036897	.0054884	47.24695	.1484770	.0670797

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1618605**	**155.1081**	**5.292258**	**26.28943**	**.1795689**	**-.013341**
Stddev	.0008814	.6636	.011005	.07829	.0003343	.000252
%RSD	.5445354	.4278479	.2079480	.2978086	.1861626	1.888595
#1	.1609343	155.0096	5.291691	26.25484	.1793858	-.013066
#2	.1619584	154.4993	5.281548	26.23439	.1793662	-.013560
#3	.1626889	155.8155	5.303536	26.37906	.1799548	-.013398

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2862364**	**.1751232**	**.5910537**	**5.136026**	**9.855044**	**.6536858**
Stddev	.1240895	.0015654	.0022224	.029329	.013422	.0028824
%RSD	43.35210	.8938651	.3759986	.5710485	.1361959	.4409379
#1	.4042409	.1765159	.5909196	5.135572	9.839853	.6523106
#2	.2976216	.1734290	.5933400	5.165579	9.859979	.6517486
#3	.1568467	.1754247	.5889014	5.106926	9.865300	.6569982

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-02 Acquired: 1/12/2025 6:19:49 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN69 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0054853	2.845557	F 19.60156	.0172256	1.077251	.0806625
Stddev	.0004295	.005621	.06030	.0011021	.003098	.0000644
%RSD	7.830805	.1975375	.3076392	6.398159	.2875886	.0797941
#1	.0057262	2.839344	19.66882	.0159649	1.079664	.0806487
#2	.0049893	2.850289	19.58354	.0180063	1.078332	.0807327
#3	.0057403	2.847037	19.55232	.0177057	1.073758	.0806062

Elem	Sr4077
Units	ppm
Avg	.0917661
Stddev	.0003433
%RSD	.3740544
#1	.0917181
#2	.0914494
#3	.0921308

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2840.888	65616.94	9434.501	3087.831	3405.219
Stddev	4.135	204.03	39.927	6.280	1.799
%RSD	.1455434	.3109426	.4232035	.2033807	.0528358
#1	2836.240	65441.81	9390.304	3089.449	3404.541
#2	2844.158	65840.98	9445.235	3080.901	3403.857
#3	2842.264	65568.02	9467.964	3093.144	3407.258

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-03 Acquired: 1/12/2025 6:23:45 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN70 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0510138**	**-.001079**	**.2994038**	**.0238426**	**-.002308**	**69.66189**
Stddev	.0016424	.000986	.0017210	.0023825	.000752	.18149
%RSD	3.219463	91.37659	.5748171	9.992688	32.56152	.2605298
#1	.0509412	-.000863	.2978031	.0220577	-.001713	69.86894
#2	.0494089	-.002155	.3012241	.0265480	-.002060	69.58644
#3	.0526913	-.000219	.2991842	.0229220	-.003153	69.53030

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5945931**	**.0034444**	**.0048331**	**32.72079**	**.1282289**	**.0617833**
Stddev	.0004155	.0000957	.0000476	.08731	.0004019	.0003208
%RSD	.0698885	2.777111	.9855735	.2668401	.3134488	.5192935
#1	.5949879	.0033512	.0048881	32.80799	.1278659	.0618962
#2	.5941595	.0034398	.0048064	32.63336	.1286608	.0614212
#3	.5946318	.0035423	.0048048	32.72103	.1281601	.0620324

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1385746**	**133.1322**	**4.345882**	**20.10175**	**.1660569**	**-.012273**
Stddev	.0026845	.2171	.008899	.06903	.0001416	.000256
%RSD	1.937198	.1631034	.2047725	.3434062	.0852843	2.088259
#1	.1387623	133.3830	4.344754	20.17162	.1660278	-.012482
#2	.1358012	133.0070	4.337600	20.03359	.1662108	-.011987
#3	.1411602	133.0068	4.355291	20.10004	.1659321	-.012351

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4089150**	**.1570876**	**.5205876**	**3.812714**	**7.334572**	**.5535365**
Stddev	.3912505	.0022863	.0034119	.054786	.009333	.0007925
%RSD	95.68015	1.455395	.6553969	1.436935	.1272512	.1431761
#1	.5716753	.1595157	.5187452	3.873187	7.343300	.5544417
#2	-.037443	.1549763	.5184931	3.766391	7.324733	.5532003
#3	.692513	.1567709	.5245247	3.798563	7.335684	.5529675

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-03 Acquired: 1/12/2025 6:23:45 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN70 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050987	1.635617	F 19.07842	.0158756	1.065193	.0684422
Stddev	.0005966	.008427	.10945	.0003665	.003562	.0002383
%RSD	11.70057	.5151891	.5736788	2.308405	.3344346	.3481486
#1	.0047860	1.627149	19.00870	.0162657	1.064127	.0686920
#2	.0047234	1.635700	19.02198	.0155385	1.062285	.0684173
#3	.0057866	1.644002	19.20456	.0158225	1.069166	.0682174

Elem	Sr4077
Units	ppm
Avg	.0738116
Stddev	.0003177
%RSD	.4303623
#1	.0741117
#2	.0738442
#3	.0734789

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2768.274	66090.24	9225.723	3088.120	3405.235
Stddev	8.070	86.70	31.004	11.080	6.760
%RSD	.2915298	.1311805	.3360606	.3587839	.1985250
#1	2771.319	66106.24	9248.280	3093.148	3404.099
#2	2774.379	66167.83	9238.521	3095.795	3412.491
#3	2759.124	65996.66	9190.369	3075.418	3399.115

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV003 Acquired: 1/12/2025 6:36:07 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV003 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.664233**	**4.746254**	**24.09615**	**4.706690**	**4.627015**	**387.2141**
Stddev	.006754	.019564	.01480	.004612	.006766	4.7207
%RSD	.1448074	.4121981	.0614265	.0979854	.1462314	1.219157
#1	4.663768	4.766541	24.10646	4.711243	4.622744	390.2160
#2	4.671207	4.744718	24.07919	4.702021	4.623485	389.6535
#3	4.657723	4.727503	24.10281	4.706805	4.634816	381.7727

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.995560**	**.4936652**	**2.432618**	**389.7278**	**15.26096**	**2.438101**
Stddev	.050044	.0024014	.000543	.8952	.04956	.003801
%RSD	.5006631	.4864410	.0223151	.2297091	.3247220	.1558814
#1	10.04345	.4957974	2.433203	390.7477	15.30104	2.439230
#2	9.94361	.4941343	2.432131	389.0719	15.27629	2.433864
#3	9.99962	.4910639	2.432521	389.3639	15.20556	2.441209

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.66376**	**390.7593**	**14.95177**	**245.0365**	**2.434594**	**1.224693**
Stddev	.04994	1.3650	.04136	.6948	.000913	.002350
%RSD	.3405668	.3493192	.2766245	.2835342	.0375104	.1918963
#1	14.66936	391.1885	14.97047	245.5008	2.435224	1.226461
#2	14.71066	391.8582	14.98048	245.3709	2.433547	1.225592
#3	14.61125	389.2313	14.90436	244.2377	2.435011	1.222026

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**397.7756**	**2.423182**	**15.76756**	**149.5589**	**4.903231**	F **5.874915**
Stddev	1.2919	.005628	.04978	.6309	.002927	.022657
%RSD	.3247824	.2322690	.3157139	.4218374	.0596858	.3856572
#1	398.6447	2.429650	15.82242	149.5755	4.901759	5.895745
#2	398.3911	2.420505	15.75501	150.1813	4.901333	5.878209
#3	396.2910	2.419392	15.72526	148.9198	4.906601	5.850791

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV003 Acquired: 1/12/2025 6:36:07 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV003 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.637677**	**4.870005**	**4.886960**	**4.834336**	**4.886249**	**4.943298**
Stddev	.009273	.007445	.006483	.003137	.016268	.015626
%RSD	.1999388	.1528671	.1326529	.0648914	.3329401	.3160980
#1	4.633277	4.877190	4.881607	4.831104	4.894705	4.946058
#2	4.631424	4.862325	4.894168	4.834537	4.896548	4.957361
#3	4.648331	4.870499	4.885107	4.837369	4.867494	4.926477

Elem	Sr4077
Units	ppm
Avg	**4.932904**
Stddev	.018949
%RSD	.3841251
#1	4.954728
#2	4.920642
#3	4.923342

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2003.574**	**50050.35**	**7688.376**	**2341.438**	**2701.451**
Stddev	1.677	176.93	36.668	3.689	1.893
%RSD	.0836999	.3535100	.4769308	.1575674	.0700873
#1	2003.822	49859.08	7647.625	2338.357	2699.474
#2	2005.113	50083.83	7698.795	2345.526	2703.247
#3	2001.786	50208.16	7718.706	2340.430	2701.633

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB003 Acquired: 1/12/2025 6:40:25 Type: Unk
Method: EPA SFAM01.0(v33) 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	**-.000717**	**.0009525**	**.0002994**	**.0004778**	**-.000740**	**.0040661**	**-.000687**
Stddev	.001311	.0001607	.0004680	.0005863	.000824	.0054433	.000162
%RSD	182.8253	16.87039	156.3214	122.7162	111.3639	133.8702	23.55891
#1	.000574	.0010761	.0001964	-.000158	-.001438	.0081570	-.000520
#2	-.002047	.0007708	.0008104	.000998	.000169	.0061532	-.000844
#3	-.000678	.0010105	-.000109	.000593	-.000951	-.002112	-.000696

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000032**	**.0000811**	**.0162734**	**.0006683**	**-.000086**	**-.000252**	**.0171196**
Stddev	.000016	.0000261	.0064704	.0000763	.000371	.000477	.0021712
%RSD	50.70069	32.20584	39.76061	11.41167	432.7047	189.3210	12.68243
#1	-.000035	.0001076	.0136817	.0007427	.000219	-.000687	.0166244
#2	-.000014	.0000806	.0236379	.0005903	-.000499	.000258	.0152389
#3	-.000046	.0000553	.0115006	.0006719	.000023	-.000327	.0194957

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003354**	**.0072125**	**-.000148**	**.0004622**	**.0618160**	**-.003275**	**.0004418**
Stddev	.0004034	.0109734	.000262	.0003227	.2351198	.000917	.0002082
%RSD	120.2550	152.1434	177.3034	69.80919	380.3542	28.00106	47.11051
#1	.0007910	.0144278	.000121	.0003802	-.196986	-.002505	.0003261
#2	.0001916	-.005416	-.000162	.0001885	.120171	-.003031	.0003173
#3	.0000237	.012626	-.000402	.0008180	.262263	-.004289	.0006822

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1882169**	**-.002691**	**.0014684**	**.0002573**	**-.001618**	**.0083757**	**-.000369**
Stddev	.0256271	.001447	.0006772	.0001943	.004042	.0026631	.000499
%RSD	13.61574	53.77024	46.11780	75.53642	249.8052	31.79619	135.0830
#1	.1807507	-.001845	.0019395	.0000344	.000590	.0055321	.000133
#2	.1671520	-.001866	.0017734	.0003462	.000839	.0108114	-.000865
#3	.2167480	-.004362	.0006924	.0003912	-.006283	.0087835	-.000375

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB003 Acquired: 1/12/2025 6:40:25 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB003 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0002902	.0015669	.0000312
Stddev	.0010364	.0015674	.0000498
%RSD	357.0534	100.0323	159.9465
#1	.0003188	.0013219	.0000191
#2	-.000760	.0032423	.0000860
#3	.001312	.0001364	-.000012

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2512.051	58744.32	8036.538	2752.043	3559.967
Stddev	5.357	134.47	15.707	5.707	5.093
%RSD	.2132468	.2288999	.1954437	.2073584	.1430602
#1	2515.798	58619.55	8030.416	2752.704	3565.825
#2	2514.440	58886.74	8024.815	2757.391	3557.484
#3	2505.915	58726.66	8054.385	2746.035	3556.592

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-04 Acquired: 1/12/2025 6:44:35 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN71 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0771513**	**-.002385**	**.5180487**	**.0309834**	**-.003329**	**62.82081**
Stddev	.0038377	.001784	.0044859	.0001560	.001683	.16331
%RSD	4.974239	74.78328	.8659132	.5035453	50.56820	.2599586
#1	.0739738	-.003970	.5215217	.0311121	-.004870	62.98478
#2	.0760651	-.000454	.5196403	.0308099	-.003583	62.81949
#3	.0814150	-.002732	.5129840	.0310282	-.001533	62.65817

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6572323**	**.0035438**	**.0069180**	**116.7967**	**.1301129**	**.0750223**
Stddev	.0020858	.0000609	.0001113	.2860	.0002715	.0008471
%RSD	.3173574	1.717234	1.608912	.2449032	.2086773	1.129109
#1	.6596372	.0036060	.0069917	117.1260	.1298945	.0757150
#2	.6559164	.0035410	.0069722	116.6530	.1300273	.0752741
#3	.6561433	.0034844	.0067899	116.6109	.1304169	.0740779

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2898058**	**170.8839**	**6.158548**	**34.99374**	**.1683963**	**-.016061**
Stddev	.0011388	.4212	.012010	.14667	.0013738	.000118
%RSD	.3929653	.2465033	.1950194	.4191359	.8158307	.7327149
#1	.2892109	171.3584	6.170600	35.15715	.1697711	-.016057
#2	.2911188	170.7389	6.146579	34.95054	.1683945	-.016181
#3	.2890875	170.5542	6.158464	34.87351	.1670234	-.015946

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4337807**	**.1397230**	**.8151235**	**4.759359**	**7.427682**	**.7132736**
Stddev	.3189346	.0007471	.0018450	.039898	.052905	.0006967
%RSD	73.52440	.5347056	.2263458	.8382968	.7122670	.0976781
#1	.5844445	.1392065	.8135766	4.783579	7.472602	.7140780
#2	.6494721	.1393829	.8171655	4.713310	7.441077	.7128602
#3	.0674254	.1405797	.8146282	4.781188	7.369367	.7128826

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-04 Acquired: 1/12/2025 6:44:35 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN71 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053653	1.361231	F 18.64092	.1142138	.9185148	.0771838
Stddev	.0004159	.012544	.05525	.0005541	.0020910	.0011534
%RSD	7.752179	.9215541	.2964141	.4851591	.2276467	1.494394
#1	.0054439	1.375368	18.62555	.1147825	.9164443	.0785155
#2	.0049156	1.356899	18.59497	.1141834	.9184744	.0765315
#3	.0057363	1.351427	18.70223	.1136755	.9206257	.0765043

Elem	Sr4077
Units	ppm
Avg	.1459283
Stddev	.0003381
%RSD	.2316681
#1	.1461414
#2	.1461050
#3	.1455385

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2864.493	69118.55	9691.941	3188.396	3323.135
Stddev	7.881	68.95	36.605	1.268	18.087
%RSD	.2751249	.0997573	.3776857	.0397793	.5442657
#1	2860.896	69057.24	9733.245	3188.825	3312.261
#2	2859.051	69105.22	9679.064	3186.969	3313.131
#3	2873.530	69193.20	9663.515	3189.394	3344.014

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-05 Acquired: 1/12/2025 6:48:32 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN72 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0630580**	**-.002508**	**.4209436**	**.0249488**	**-.001383**	**55.43049**
Stddev	.0029812	.001579	.0015279	.0016875	.002629	.02424
%RSD	4.727622	62.97570	.3629688	6.763883	190.1070	.0437318
#1	.0662116	-.004139	.4205881	.0266536	-.004406	55.40757
#2	.0626764	-.000986	.4196249	.0249136	-.000103	55.45587
#3	.0602861	-.002399	.4226180	.0232792	.000361	55.42803

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6488441**	**.0034510**	**.0059789**	**229.7485**	**.1072676**	**.0731045**
Stddev	.0005357	.0000478	.0001293	.0749	.0002296	.0001792
%RSD	.0825696	1.385281	2.162934	.0326020	.2140254	.2451924
#1	.6483374	.0034293	.0061206	229.6700	.1070026	.0730488
#2	.6494048	.0034179	.0059489	229.7561	.1073944	.0729598
#3	.6487902	.0035058	.0058673	229.8193	.1074059	.0733050

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2649655**	**134.2807**	**6.132835**	**44.71888**	**.1512203**	**-.013439**
Stddev	.0012578	.0834	.006106	.08082	.0002159	.000206
%RSD	.4746830	.0621245	.0995570	.1807371	.1427622	1.533946
#1	.2663592	134.1855	6.139784	44.66110	.1514621	-.013368
#2	.2646224	134.3160	6.128329	44.68429	.1511517	-.013279
#3	.2639149	134.3407	6.130392	44.81124	.1510470	-.013672

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6508810**	**.1260383**	**.6587416**	**5.691419**	**6.431856**	**.5696132**
Stddev	.0592686	.0025555	.0005006	.046076	.014991	.0007436
%RSD	9.105897	2.027528	.0759871	.8095648	.2330736	.1305408
#1	.6530755	.1277304	.6589774	5.737148	6.442577	.5695174
#2	.7090219	.1230987	.6581667	5.645004	6.438264	.5689222
#3	.5905457	.1272859	.6590807	5.692105	6.414726	.5704001

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-05 Acquired: 1/12/2025 6:48:32 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN72 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0035095	.9737081	F 17.69328	.0320673	.9146053	.0863668
Stddev	.0001023	.0086763	.07058	.0006014	.0014939	.0009639
%RSD	2.914767	.8910600	.3988927	1.875567	.1633358	1.116034
#1	.0036269	.9737952	17.77393	.0314376	.9142841	.0853256
#2	.0034390	.9649885	17.64286	.0321286	.9132981	.0865470
#3	.0034628	.9823405	17.66303	.0326358	.9162336	.0872279

Elem	Sr4077
Units	ppm
Avg	.2788411
Stddev	.0005427
%RSD	.1946116
#1	.2792608
#2	.2782283
#3	.2790342

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2796.789	68427.09	9784.599	3176.700	3028.189
Stddev	7.029	223.01	25.897	3.197	5.569
%RSD	.2513174	.3259146	.2646679	.1006241	.1838926
#1	2803.203	68680.93	9814.494	3178.521	3030.168
#2	2789.275	68262.67	9769.033	3173.009	3021.901
#3	2797.891	68337.66	9770.271	3178.570	3032.498

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-06 Acquired: 1/12/2025 6:52:30 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN73 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0687025**	**-.004317**	**.7079544**	**.0236890**	**-.002383**	**63.59413**
Stddev	.0020644	.002615	.0025398	.0008138	.000689	.24497
%RSD	3.004802	60.56704	.3587518	3.435407	28.90960	.3852012
#1	.0697273	-.005739	.7056956	.0245497	-.002106	63.48047
#2	.0700540	-.001300	.7074638	.0229320	-.001876	63.42665
#3	.0663263	-.005913	.7107037	.0235852	-.003168	63.87528

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.181276**	**.0040691**	**.0066808**	**251.4082**	**.1128082**	**.0824303**
Stddev	.005593	.0000493	.0000713	.7782	.0005725	.0001753
%RSD	.4735094	1.212301	1.067465	.3095278	.5075020	.2126942
#1	1.177452	.0041254	.0066060	250.8618	.1123198	.0826227
#2	1.178680	.0040481	.0067480	251.0637	.1134382	.0822795
#3	1.187695	.0040337	.0066885	252.2992	.1126666	.0823886

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2892746**	**150.9535**	**8.333252**	**48.25456**	**.1600570**	**-.013813**
Stddev	.0025406	.6020	.029859	.06053	.0002629	.000450
%RSD	.8782770	.3988262	.3583062	.1254311	.1642635	3.259209
#1	.2915989	150.6783	8.304317	48.19243	.1602623	-.013587
#2	.2896626	150.5383	8.331484	48.25791	.1601481	-.014332
#3	.2865623	151.6440	8.363955	48.31334	.1597607	-.013521

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7285322**	**.1393159**	**.7425741**	**6.506536**	**5.846929**	**.6522709**
Stddev	.0997606	.0027527	.0006463	.053977	.013962	.0029285
%RSD	13.69336	1.975850	.0870387	.8295863	.2387878	.4489631
#1	.8176395	.1381411	.7426898	6.564817	5.832795	.6503095
#2	.6207561	.1424611	.7418777	6.458263	5.847278	.6508661
#3	.7472011	.1373456	.7431548	6.496528	5.860712	.6556371

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-06 Acquired: 1/12/2025 6:52:30 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN73 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0048275**	**.9534984**	F **17.70311**	**.0579690**	**1.033752**	**.0953452**
Stddev	.0003224	.0022154	.04570	.0014938	.002544	.0011057
%RSD	6.677900	.2323413	.2581697	2.576883	.2460833	1.159687
#1	.0044601	.9512571	17.70042	.0562891	1.033257	.0942496
#2	.0050630	.9556869	17.65881	.0591478	1.036507	.0964607
#3	.0049594	.9535512	17.75010	.0584702	1.031492	.0953253

Elem	Sr4077
Units	ppm
Avg	**.3204877**
Stddev	.0014304
%RSD	.4463269
#1	.3200265
#2	.3193448
#3	.3220919

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2933.485**	**69635.92**	**10106.57**	**3237.764**	**3127.088**
Stddev	1.161	49.81	48.16	8.594	2.970
%RSD	.0395769	.0715353	.4764933	.2654417	.0949645
#1	2934.416	69595.82	10088.34	3237.671	3130.275
#2	2933.856	69620.25	10070.19	3246.404	3126.588
#3	2932.184	69691.69	10161.18	3229.216	3124.399

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-07 Acquired: 1/12/2025 6:56:26 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN74 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0540699**	**-.004756**	**.2897432**	**.0165061**	**-.001999**	**52.35275**
Stddev	.0038385	.002217	.0025136	.0013774	.002164	.41810
%RSD	7.099074	46.62711	.8675154	8.345071	108.2426	.7986148
#1	.0530315	-.007194	.2869031	.0180899	.000492	52.60627
#2	.0508574	-.002861	.2916811	.0155877	-.003079	51.87018
#3	.0583207	-.004212	.2906455	.0158407	-.003411	52.58181

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5399464**	**.0031613**	**.0056293**	**348.4688**	**.1025632**	**.0717503**
Stddev	.0060103	.0000596	.0001211	1.3071	.0005646	.0002713
%RSD	1.113124	1.884746	2.151922	.3751101	.5504636	.3780868
#1	.5412515	.0032014	.0055515	347.5606	.1029166	.0719758
#2	.5333909	.0031897	.0057689	349.9670	.1019121	.0718258
#3	.5451970	.0030928	.0055676	347.8789	.1028609	.0714492

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2471139**	**133.5324**	**6.309147**	**45.55147**	**.1478293**	**-.013007**
Stddev	.0015506	1.0121	.058720	.30144	.0003553	.000107
%RSD	.6274669	.7579109	.9307198	.6617496	.2403744	.8235185
#1	.2473167	133.9554	6.322812	45.68614	.1482113	-.013078
#2	.2485531	132.3775	6.244799	45.20617	.1477680	-.013058
#3	.2454719	134.2643	6.359830	45.76209	.1475086	-.012884

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6230220**	**.1184647**	**.5500295**	**6.199276**	**5.527864**	**.5710301**
Stddev	.1042572	.0003073	.0041343	.076081	.024641	.0044213
%RSD	16.73411	.2594039	.7516505	1.227256	.4457622	.7742625
#1	.5946922	.1187707	.5507565	6.265777	5.502929	.5730535
#2	.7385162	.1184674	.5455799	6.116311	5.528464	.5659593
#3	.5358576	.1181561	.5537521	6.215740	5.552200	.5740777

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-07 Acquired: 1/12/2025 6:56:26 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN74 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031544	.7312700	F 16.96257	.0129512	.9043963	.0994808
Stddev	.0003075	.0091067	.06626	.0002509	.0040428	.0012827
%RSD	9.748430	1.245333	.3906131	1.936975	.4470160	1.289394
#1	.0028229	.7225798	16.94005	.0126667	.9043486	.1008015
#2	.0032100	.7407428	16.91051	.0131410	.9003776	.0982398
#3	.0034304	.7304873	17.03716	.0130457	.9084628	.0994010

Elem	Sr4077
Units	ppm
Avg	.4013092
Stddev	.0032173
%RSD	.8016992
#1	.4031645
#2	.3975941
#3	.4031688

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2771.944	68875.16	9794.880	3177.758	3011.657
Stddev	3.186	234.25	20.401	13.312	3.283
%RSD	.1149246	.3401128	.2082789	.4189014	.1090066
#1	2775.548	68816.90	9804.075	3175.376	3014.903
#2	2770.779	69133.05	9771.500	3192.100	3008.339
#3	2769.504	68675.54	9809.065	3165.798	3011.730

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-08 Acquired: 1/12/2025 7:00:31 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0931803**	**-.002685**	**4.358910**	**.0327541**	**-.001625**	**55.26881**
Stddev	.0018381	.002236	.004365	.0011744	.001462	.40326
%RSD	1.972664	83.27578	.1001437	3.585447	89.96066	.7296343
#1	.0951116	-.001041	4.363682	.0331607	-.002995	55.73155
#2	.0929770	-.005231	4.357930	.0314305	-.001794	54.99246
#3	.0914523	-.001783	4.355118	.0336712	-.000086	55.08242

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.928328**	**.0041548**	**.0097529**	**60.10163**	**.1632940**	**.0685493**
Stddev	.011970	.0001147	.0001076	.37357	.0007399	.0001635
%RSD	.6207597	2.761419	1.103622	.6215642	.4530808	.2385891
#1	1.942150	.0040225	.0096399	60.51694	.1641130	.0684167
#2	1.921427	.0042263	.0098543	59.79302	.1626741	.0684991
#3	1.921408	.0042156	.0097646	59.99493	.1630949	.0687321

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3657141**	**139.5326**	**6.655849**	**18.00053**	**.1668007**	**-.009256**
Stddev	.0020402	1.0122	.044161	.06036	.0000876	.000251
%RSD	.5578546	.7254105	.6634932	.3353116	.0525381	2.716338
#1	.3667345	140.6624	6.703387	18.06764	.1668790	-.009026
#2	.3670428	138.7085	6.616101	17.95067	.1668170	-.009217
#3	.3633651	139.2270	6.648060	17.98330	.1667060	-.009524

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4267881**	**.1427820**	**5.655445**	**5.776910**	F **12.12173**	**.6064567**
Stddev	.0587472	.0033769	.022810	.059675	.02100	.0063034
%RSD	13.76496	2.365102	.4033223	1.032987	.1732081	1.039388
#1	.4819311	.1407106	5.672510	5.837656	12.09774	.6130792
#2	.4334317	.1409567	5.664287	5.774705	12.13675	.6005301
#3	.3650015	.1466788	5.629538	5.718368	12.13070	.6057609

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-08 Acquired: 1/12/2025 7:00:31 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033143	4.069829	F 18.05764	.2838205	.9273368	.0777503
Stddev	.0001179	.003300	.07435	.0010513	.0030131	.0003297
%RSD	3.557981	.0810928	.4117596	.3704110	.3249231	.4240108
#1	.0033723	4.073603	17.97346	.2837525	.9250638	.0774476
#2	.0031786	4.068395	18.11435	.2849041	.9307546	.0777016
#3	.0033919	4.067488	18.08511	.2828048	.9261921	.0781016

Elem	Sr4077
Units	ppm
Avg	.1816731
Stddev	.0014527
%RSD	.7996428
#1	.1833463
#2	.1807321
#3	.1809410

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2910.736	69279.59	9715.372	3181.760	3385.569
Stddev	1.122	152.89	63.564	9.290	4.874
%RSD	.0385408	.2206877	.6542598	.2919912	.1439784
#1	2911.710	69124.52	9782.193	3175.121	3382.286
#2	2909.509	69284.03	9655.664	3177.783	3383.252
#3	2910.988	69430.21	9708.258	3192.377	3391.170

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-09 Acquired: 1/12/2025 7:04:26 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1003929	-.005067	5.436576	.0287918	.0008713	53.89251
Stddev	.0022668	.002603	.016599	.0012324	.0009443	.19093
%RSD	2.257926	51.36590	.3053272	4.280281	108.3759	.3542839
#1	.1025401	-.007293	5.420489	.0298443	.0010830	53.70600
#2	.1006158	-.005703	5.453644	.0274361	.0016918	53.88396
#3	.0980229	-.002206	5.435595	.0290951	-.000161	54.08758

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.095898	.0044906	.0111308	63.17137	.1701722	.0761254
Stddev	.007850	.0000478	.0000812	.17179	.0005771	.0003474
%RSD	.3745616	1.063538	.7296566	.2719464	.3391062	.4563146
#1	2.087134	.0044896	.0112203	62.99271	.1707029	.0757247
#2	2.102285	.0045389	.0111105	63.18605	.1695579	.0763097
#3	2.098274	.0044434	.0110617	63.33535	.1702557	.0763418

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3677888	137.7326	6.756560	19.44947	.1894222	-.010469
Stddev	.0009390	.5389	.032062	.09850	.0010809	.000238
%RSD	.2553187	.3912770	.4745317	.5064233	.5706012	2.269827
#1	.3674817	137.3276	6.721040	19.36333	.1882294	-.010611
#2	.3688429	137.5259	6.783360	19.42824	.1903367	-.010602
#3	.3670417	138.3442	6.765278	19.55686	.1897006	-.010195

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3527979	.1437763	6.148886	5.363096	F 13.99806	.5926442
Stddev	.2343401	.0016961	.025465	.035231	.02594	.0032035
%RSD	66.42334	1.179707	.4141424	.6569115	.1852892	.5405360
#1	.1383416	.1457076	6.178102	5.401855	13.96954	.5910936
#2	.6029304	.1430925	6.137156	5.333016	14.02024	.5905110
#3	.3171216	.1425288	6.131399	5.354416	14.00439	.5963279

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-09 Acquired: 1/12/2025 7:04:26 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043671	4.344837	F 17.63576	.2051737	.8405796	.0784117
Stddev	.0000957	.007046	.04681	.0020774	.0031261	.0008209
%RSD	2.191538	.1621640	.2654336	1.012520	.3719031	1.046953
#1	.0042586	4.336719	17.59099	.2028617	.8411067	.0774943
#2	.0044397	4.348428	17.68438	.2057762	.8434087	.0790770
#3	.0044030	4.349364	17.63192	.2068833	.8372235	.0786639

Elem	Sr4077
Units	ppm
Avg	.1886160
Stddev	.0007734
%RSD	.4100208
#1	.1880728
#2	.1882737
#3	.1895014

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2900.797	73488.05	9880.634	3349.863	3240.525
Stddev	1.208	225.82	30.014	6.351	3.471
%RSD	.0416445	.3072924	.3037703	.1895936	.1071277
#1	2901.663	73461.80	9846.317	3344.738	3244.407
#2	2901.312	73725.85	9893.593	3347.884	3237.719
#3	2899.417	73276.50	9901.992	3356.968	3239.449

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-10 Acquired: 1/12/2025 7:08:20 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0983179**	**-.005677**	**5.622915**	**.0331167**	**-.003260**	**59.50756**
Stddev	.0012532	.002642	.006759	.0019582	.003327	.06835
%RSD	1.274634	46.52784	.1202114	5.913083	102.0737	.1148628
#1	.0996642	-.003074	5.625922	.0328989	-.000465	59.53933
#2	.0971853	-.005602	5.615174	.0351747	-.006940	59.55425
#3	.0981042	-.008356	5.627650	.0312765	-.002374	59.42911

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.289963**	**.0046252**	**.0111373**	**110.8584**	**.1515207**	**.0728612**
Stddev	.003379	.0001070	.0001475	.0601	.0003772	.0002863
%RSD	.1475442	2.313638	1.324088	.0542505	.2489246	.3929577
#1	2.286688	.0047209	.0112980	110.7913	.1513362	.0727481
#2	2.293437	.0045097	.0110081	110.9073	.1519546	.0726487
#3	2.289766	.0046449	.0111059	110.8767	.1512713	.0731868

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3739627**	**157.8101**	**6.970432**	**23.24926**	**.1885978**	**-.011729**
Stddev	.0020822	.0704	.003914	.04089	.0004359	.000157
%RSD	.5567824	.0446367	.0561533	.1758597	.2311150	1.335373
#1	.3761081	157.8314	6.966151	23.20231	.1889611	-.011894
#2	.3738296	157.8674	6.971318	23.26841	.1881145	-.011710
#3	.3719502	157.7315	6.973828	23.27706	.1887178	-.011583

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6386849**	**.1507292**	**6.342775**	**5.167867**	F **12.56655**	**.6855214**
Stddev	.0568444	.0032557	.022826	.029211	.03469	.0007423
%RSD	8.900225	2.159941	.3598711	.5652434	.2760764	.1082813
#1	.6914124	.1525128	6.343964	5.200938	12.58185	.6852476
#2	.5784664	.1469715	6.364983	5.157076	12.52684	.6863617
#3	.6461758	.1527033	6.319377	5.145587	12.59097	.6849549

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-10 Acquired: 1/12/2025 7:08:20 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038055	3.381835	F 18.69566	.4872686	.9042037	.0813114
Stddev	.0001934	.011770	.03176	.0014956	.0028874	.0011206
%RSD	5.081628	.3480458	.1698857	.3069401	.3193260	1.378168
#1	.0036471	3.374457	18.71494	.4866186	.9011466	.0806470
#2	.0037484	3.375639	18.65900	.4862080	.9068845	.0806820
#3	.0040210	3.395409	18.71304	.4889792	.9045798	.0826052

Elem	Sr4077
Units	ppm
Avg	.3105277
Stddev	.0005845
%RSD	.1882122
#1	.3101661
#2	.3112020
#3	.3102151

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2886.961	68150.15	9684.661	3190.397	3292.701
Stddev	3.424	280.41	48.039	10.323	4.656
%RSD	.1186059	.4114595	.4960294	.3235689	.1414060
#1	2889.426	67826.44	9633.492	3178.924	3295.879
#2	2888.406	68305.73	9728.792	3193.334	3294.867
#3	2883.051	68318.28	9691.700	3198.934	3287.356

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-11 Acquired: 1/12/2025 7:12:15 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0806688**	**-.003505**	**2.396267**	**.0340684**	**-.003143**	**68.33942**
Stddev	.0028571	.000861	.007287	.0023137	.001436	.07547
%RSD	3.541807	24.57115	.3040906	6.791307	45.69721	.1104285
#1	.0774749	-.002582	2.401696	.0317974	-.002939	68.34345
#2	.0815498	-.004288	2.387985	.0364226	-.001819	68.41279
#3	.0829816	-.003646	2.399119	.0339852	-.004670	68.26202

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.518186**	**.0050501**	**.0100564**	**91.34813**	**.1363248**	**.0864224**
Stddev	.003410	.0000401	.0000711	.11034	.0001086	.0002874
%RSD	.2246006	.7948216	.7074339	.1207907	.0796583	.3325562
#1	1.520167	.0050662	.0101162	91.27632	.1362942	.0867107
#2	1.520143	.0050798	.0099777	91.47518	.1362348	.0864206
#3	1.514249	.0050045	.0100751	91.29290	.1364454	.0861359

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2705335**	**172.5422**	**7.684343**	**23.21534**	**.1757099**	**-.014644**
Stddev	.0005395	.1362	.007635	.02286	.0008628	.000198
%RSD	.1994275	.0789512	.0993570	.0984860	.4910461	1.354182
#1	.2699432	172.5097	7.691233	23.23567	.1764510	-.014501
#2	.2706559	172.6917	7.685662	23.21977	.1747627	-.014560
#3	.2710012	172.4252	7.676135	23.19059	.1759161	-.014870

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5585182**	**.1662928**	**2.742832**	**5.916237**	**9.262018**	**.7380454**
Stddev	.0522337	.0006609	.003890	.014981	.006546	.0016584
%RSD	9.352193	.3974533	.1418294	.2532180	.0706809	.2247077
#1	.5713054	.1656470	2.738670	5.901810	9.261563	.7373675
#2	.6031708	.1662634	2.743449	5.931716	9.255711	.7399354
#3	.5010782	.1669679	2.746377	5.915183	9.268780	.7368333

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-11 Acquired: 1/12/2025 7:12:15 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041953	1.920979	F 19.00139	.1215890	.7858130	.0937247
Stddev	.0003083	.004701	.04056	.0014550	.0011929	.0014991
%RSD	7.349345	.2447440	.2134694	1.196668	.1518006	1.599510
#1	.0045443	1.919024	19.02163	.1227495	.7855783	.0942180
#2	.0039600	1.917571	19.02785	.1199566	.7847549	.0949149
#3	.0040816	1.926343	18.95469	.1220608	.7871058	.0920410

Elem	Sr4077
Units	ppm
Avg	.2843622
Stddev	.0001552
%RSD	.0545852
#1	.2841865
#2	.2844807
#3	.2844194

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3147.247	75077.67	10708.08	3521.255	3282.141
Stddev	1.263	114.40	15.74	3.429	.855
%RSD	.0401404	.1523752	.1470247	.0973852	.0260486
#1	3145.813	75190.95	10721.44	3519.453	3281.897
#2	3147.735	74962.18	10690.72	3519.102	3283.091
#3	3148.194	75079.87	10712.07	3525.209	3281.434

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-12 Acquired: 1/12/2025 7:16:13 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK4D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0794149**	**-.004343**	**2.342170**	**.0333538**	**-.003077**	**68.35595**
Stddev	.0035875	.005525	.016666	.0012966	.000286	.36276
%RSD	4.517452	127.2095	.7115767	3.887549	9.285284	.5306968
#1	.0823302	-.010445	2.343910	.0319758	-.002782	67.94303
#2	.0754085	-.002904	2.324701	.0335357	-.003352	68.50139
#3	.0805062	.000320	2.357897	.0345499	-.003097	68.62342

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.506577**	**.0051130**	**.0096077**	**91.07679**	**.1362530**	**.0842571**
Stddev	.008999	.0000152	.0001438	.57014	.0001082	.0002056
%RSD	.5973031	.2969256	1.496831	.6259993	.0794296	.2440406
#1	1.496207	.0051221	.0097684	90.41947	.1363768	.0843342
#2	1.511191	.0051214	.0094911	91.43714	.1362057	.0840241
#3	1.512332	.0050955	.0095637	91.37377	.1361764	.0844130

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2725955**	**172.8934**	**7.665948**	**23.31352**	**.1707305**	**-.014822**
Stddev	.0011903	1.0508	.045648	.14790	.0014521	.000423
%RSD	.4366443	.6077891	.5954632	.6343944	.8505306	2.854503
#1	.2712535	171.7003	7.613254	23.14545	.1717283	-.015039
#2	.2730099	173.2982	7.693387	23.37136	.1690646	-.014335
#3	.2735232	173.6815	7.691204	23.42377	.1713986	-.015093

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5157244**	**.1646353**	**2.757152**	**5.870733**	**8.919408**	**.7413679**
Stddev	.1185361	.0018253	.011545	.035620	.071389	.0067424
%RSD	22.98438	1.108674	.4187340	.6067418	.8003780	.9094600
#1	.5041438	.1628088	2.768345	5.867848	8.940729	.7337283
#2	.6396257	.1646377	2.757827	5.907708	8.839787	.7438886
#3	.4034036	.1664593	2.745284	5.836643	8.977707	.7464869

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-12 Acquired: 1/12/2025 7:16:13 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK4D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042846	1.846702	F 19.04186	.1184271	.7809934	.0940971
Stddev	.0003415	.013177	.03342	.0018352	.0017584	.0009212
%RSD	7.970668	.7135640	.1754891	1.549661	.2251548	.9790021
#1	.0040224	1.849958	19.08037	.1188204	.7804421	.0935112
#2	.0046708	1.832202	19.02051	.1164271	.7829615	.0951590
#3	.0041605	1.857946	19.02471	.1200337	.7795767	.0936212

Elem	Sr4077
Units	ppm
Avg	.2815178
Stddev	.0016312
%RSD	.5794452
#1	.2796738
#2	.2821074
#3	.2827723

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3192.641	73933.30	10565.00	3487.038	3350.375
Stddev	11.252	132.20	72.12	15.767	18.130
%RSD	.3524363	.1788112	.6826131	.4521498	.5411409
#1	3185.821	73911.58	10489.66	3484.083	3342.814
#2	3205.628	74075.02	10633.39	3472.957	3371.062
#3	3186.474	73813.31	10571.95	3504.073	3337.249

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-11LX5 Acquired: 1/12/2025 7:20:10 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK4L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0182227	-.000269	.4819770	.0073542	-.002133	15.63697	.3356276
Stddev	.0019728	.001002	.0014301	.0004763	.001090	.40627	.0086415
%RSD	10.82631	371.6915	.2967225	6.476718	51.11856	2.598121	2.574736
#1	.0204918	-.000256	.4834793	.0068062	-.003067	15.89216	.3413796
#2	.0169133	-.001278	.4806320	.0075870	-.002396	15.16848	.3256903
#3	.0172629	.000725	.4818197	.0076693	-.000935	15.85028	.3398130

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012893	.0016244	21.26395	.0325891	.0166410	.0657995	40.82058
Stddev	.0000966	.0000384	.50005	.0006306	.0002600	.0016138	1.03494
%RSD	7.495655	2.361603	2.351611	1.935008	1.562237	2.452569	2.535337
#1	.0012172	.0016250	21.60146	.0325177	.0167331	.0670443	41.48755
#2	.0012516	.0015857	20.68947	.0319972	.0163475	.0639762	39.62834
#3	.0013991	.0016624	21.50091	.0332523	.0168424	.0663780	41.34586

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.780193	5.437010	.0341404	-.003507	.1412479	.0398995	.6728103
Stddev	.040631	.134042	.0004035	.000190	.2143006	.0023088	.0132746
%RSD	2.282372	2.465366	1.181791	5.427619	151.7195	5.786499	1.973004
#1	1.802801	5.510582	.0344573	-.003668	.3871012	.0388903	.6766345
#2	1.733287	5.282293	.0336862	-.003297	-.006007	.0425410	.6580434
#3	1.804492	5.518155	.0342777	-.003557	.042649	.0382671	.6837530

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.375395	1.804801	.1716024	.0007874	.3668748	4.626369	.0229576
Stddev	.067698	.007794	.0050091	.0000125	.0035518	.047011	.0004991
%RSD	4.922094	.4318428	2.919026	1.586090	.9681232	1.016158	2.174014
#1	1.377643	1.808987	.1751222	.0007975	.3641388	4.674813	.0224337
#2	1.306601	1.795808	.1658676	.0007734	.3655970	4.623360	.0230117
#3	1.441941	1.809606	.1738173	.0007912	.3708888	4.580935	.0234275

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-11LX5 Acquired: 1/12/2025 7:20:10 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK4L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1908735	.0201452	.0662069
Stddev	.0028338	.0005602	.0015457
%RSD	1.484644	2.780681	2.334578
#1	.1940762	.0205433	.0672433
#2	.1886912	.0195046	.0644303
#3	.1898531	.0203876	.0669471

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2664.999	63740.81	8682.820	2986.709	3495.412
Stddev	5.803	1434.32	98.721	46.319	9.920
%RSD	.2177657	2.250239	1.136969	1.550852	.2837898
#1	2659.016	62920.98	8571.112	2958.381	3484.452
#2	2670.604	65396.99	8719.006	3040.162	3498.008
#3	2665.379	62904.45	8758.342	2961.584	3503.775

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-13 Acquired: 1/12/2025 7:24:11 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK4S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1337469**	**.0962360**	**2.403118**	**.1619818**	**.1256736**	**70.80611**
Stddev	.0020831	.0013463	.000480	.0013166	.0014534	.33340
%RSD	1.557462	1.398917	.0199654	.8127971	1.156482	.4708641
#1	.1334995	.0972886	2.403651	.1634852	.1258613	70.83706
#2	.1317986	.0967003	2.402721	.1610344	.1241355	71.12295
#3	.1359426	.0947190	2.402981	.1614259	.1270240	70.45831

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.451204**	**.0816252**	**.1062087**	**91.25040**	**.4647865**	**1.058453**
Stddev	.040437	.0005677	.0002584	.35382	.0007362	.001465
%RSD	.9084431	.6955459	.2432795	.3877458	.1583892	.1384397
#1	4.406936	.0817743	.1062879	91.24271	.4651783	1.059268
#2	4.486197	.0809977	.1059201	91.60801	.4652438	1.056761
#3	4.460480	.0821034	.1064183	90.90049	.4639372	1.059328

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6358953**	**173.9022**	**8.382955**	**23.19564**	**1.150023**	**.0438182**
Stddev	.0006816	.7169	.030395	.08065	.001661	.0002271
%RSD	.1071870	.4122260	.3625765	.3476788	.1444478	.5184023
#1	.6362175	174.0276	8.378762	23.21388	1.148176	.0437188
#2	.6351123	174.5481	8.415228	23.26560	1.150499	.0436578
#3	.6363560	173.1309	8.354874	23.10743	1.151394	.0440781

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4903646**	**.9380248**	**3.556501**	**5.925213**	**9.126018**	**.7480811**
Stddev	.0584495	.0009313	.003855	.002060	.012179	.0037560
%RSD	11.91960	.0992840	.1083884	.0347669	.1334577	.5020910
#1	.5074635	.9388307	3.558363	5.924118	9.139296	.7500210
#2	.5383577	.9382384	3.552068	5.927590	9.115365	.7504704
#3	.4252725	.9370052	3.559071	5.923933	9.123394	.7437517

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-13 Acquired: 1/12/2025 7:24:11 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK4S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039573	1.902121	F 18.74861	.1192455	.7743229	.0925767
Stddev	.0003265	.002086	.04736	.0004981	.0016969	.0002908
%RSD	8.249575	.1096683	.2526242	.4177372	.2191446	.3140871
#1	.0040707	1.902415	18.79733	.1187432	.7761662	.0926752
#2	.0042119	1.904045	18.70273	.1197394	.7728258	.0922495
#3	.0035892	1.899904	18.74577	.1192538	.7739768	.0928055

Elem	Sr4077
Units	ppm
Avg	.2843863
Stddev	.0013609
%RSD	.4785476
#1	.2846414
#2	.2856017
#3	.2829159

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3135.389	74092.16	10715.75	3471.727	3278.993
Stddev	3.958	110.12	51.61	4.089	1.582
%RSD	.1262446	.1486322	.4816274	.1177810	.0482338
#1	3137.961	74039.59	10675.88	3467.030	3278.406
#2	3137.375	74018.17	10774.04	3473.656	3280.784
#3	3130.831	74218.72	10697.32	3474.495	3277.789

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-14 Acquired: 1/12/2025 7:28:12 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0852415**	**-.006878**	**.5306926**	**.0270469**	**-.002883**	**54.50362**
Stddev	.0015407	.000450	.0012858	.0015679	.000246	.37243
%RSD	1.807418	6.537066	.2422937	5.796840	8.533048	.6833170
#1	.0869590	-.006611	.5311447	.0255887	-.003168	54.42250
#2	.0839812	-.006627	.5316912	.0268469	-.002741	54.90992
#3	.0847843	-.007397	.5292417	.0287052	-.002742	54.17843

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9663125**	**.0047042**	**.0078657**	**67.51809**	**.1050353**	**.0885772**
Stddev	.0042256	.0001177	.0001485	.36770	.0003293	.0003941
%RSD	.4372947	2.502973	1.887828	.5446003	.3135182	.4449530
#1	.9672219	.0048128	.0080128	67.37046	.1053056	.0890013
#2	.9700094	.0045791	.0078685	67.93666	.1051318	.0885083
#3	.9617062	.0047207	.0077158	67.24713	.1046686	.0882221

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2199567**	**160.9458**	**12.70283**	**23.47311**	**.1780309**	**-.013913**
Stddev	.0021379	1.0335	.06709	.15436	.0001044	.000423
%RSD	.9719724	.6421425	.5281263	.6575884	.0586204	3.039624
#1	.2179140	160.6401	12.70349	23.36739	.1779415	-.013964
#2	.2221786	162.0977	12.76958	23.65024	.1780056	-.013467
#3	.2197775	160.0997	12.63542	23.40170	.1781456	-.014308

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5242800**	**.1365808**	**.8248598**	**6.255845**	**6.096067**	**.6847640**
Stddev	.1599596	.0015534	.0039722	.065971	.008352	.0059859
%RSD	30.51034	1.137375	.4815602	1.054554	.1370137	.8741507
#1	.3637210	.1381720	.8247289	6.181907	6.104855	.6829416
#2	.6836334	.1350681	.8209547	6.308692	6.088232	.6914493
#3	.5254855	.1365022	.8288958	6.276935	6.095114	.6799012

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-14 Acquired: 1/12/2025 7:28:12 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052181	.7889061	F 17.67666	.0212228	.7306667	.0874561
Stddev	.0002849	.0037261	.06330	.0006226	.0025098	.0011982
%RSD	5.459945	.4723108	.3581012	2.933483	.3434975	1.370039
#1	.0052287	.7931277	17.74858	.0207792	.7333007	.0874599
#2	.0054975	.7860762	17.65199	.0219345	.7283029	.0886524
#3	.0049280	.7875144	17.62941	.0209546	.7303964	.0862560

Elem	Sr4077
Units	ppm
Avg	.1475318
Stddev	.0011665
%RSD	.7906998
#1	.1470741
#2	.1488578
#3	.1466636

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3290.234	78745.40	11187.61	3676.803	3293.876
Stddev	5.386	117.43	60.88	14.857	1.892
%RSD	.1637034	.1491242	.5441641	.4040719	.0574396
#1	3292.346	78713.82	11150.41	3683.236	3293.361
#2	3284.112	78646.99	11257.87	3687.360	3295.972
#3	3294.243	78875.39	11154.56	3659.814	3292.295

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-15 Acquired: 1/12/2025 7:32:09 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0693286**	**-.007803**	**1.012741**	**.0224003**	**-.003255**	**48.89234**
Stddev	.0016341	.001948	.001170	.0015734	.002807	.24305
%RSD	2.356983	24.96207	.1154883	7.023775	86.21988	.4971160
#1	.0685358	-.009483	1.014091	.0216266	-.004760	48.61851
#2	.0682421	-.005668	1.012029	.0242107	-.004990	48.97599
#3	.0712078	-.008259	1.012104	.0213637	-.000017	49.08252

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8892888**	**.0037136**	**.0078702**	**337.1780**	**.1047390**	**.0828602**
Stddev	.0045968	.0001515	.0000622	.9600	.0006107	.0003202
%RSD	.5169061	4.079191	.7908506	.2847184	.5830188	.3864679
#1	.8841938	.0038681	.0078483	336.1229	.1040370	.0829114
#2	.8905473	.0035653	.0079405	338.0001	.1050329	.0831517
#3	.8931252	.0037075	.0078219	337.4108	.1051471	.0825174

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2552211**	**153.4039**	**12.40483**	**113.6860**	**.1615760**	**-.013907**
Stddev	.0007786	.9299	.07090	.8168	.0008808	.000346
%RSD	.3050640	.6061802	.5715680	.7184643	.5451295	2.490421
#1	.2557789	152.3778	12.32651	112.8098	.1623946	-.014303
#2	.2555528	153.6428	12.42336	113.8221	.1606440	-.013755
#3	.2543316	154.1909	12.46463	114.4263	.1616895	-.013662

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.166060**	**.1628502**	**1.367253**	**6.803784**	**6.411398**	**.6613982**
Stddev	.074793	.0018134	.009483	.058533	.005186	.0044656
%RSD	6.414206	1.113561	.6935946	.8602949	.0808839	.6751699
#1	1.080070	.1610552	1.362710	6.744569	6.407521	.6568000
#2	1.202092	.1646815	1.360897	6.805174	6.417288	.6616767
#3	1.216016	.1628138	1.378153	6.861610	6.409384	.6657181

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-15 Acquired: 1/12/2025 7:32:09 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038481	1.268881	F 17.34992	.0349906	1.052458	.0897700
Stddev	.0002375	.005415	.04111	.0004631	.005089	.0010695
%RSD	6.170873	.4267461	.2369240	1.323492	.4835354	1.191418
#1	.0036234	1.267722	17.32014	.0346682	1.046623	.0891832
#2	.0040965	1.274782	17.33280	.0347823	1.055983	.0891223
#3	.0038245	1.264140	17.39682	.0355213	1.054766	.0910045

Elem	Sr4077
Units	ppm
Avg	.2786256
Stddev	.0014954
%RSD	.5366993
#1	.2768996
#2	.2794460
#3	.2795313

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2840.310	69441.19	9985.035	3200.027	3020.355
Stddev	4.081	332.29	25.063	19.829	2.171
%RSD	.1436708	.4785182	.2510042	.6196635	.0718742
#1	2838.295	69719.61	9984.880	3219.748	3019.491
#2	2845.006	69530.63	10010.18	3200.241	3022.825
#3	2837.629	69073.34	9960.05	3180.091	3018.750

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-16 Acquired: 1/12/2025 7:36:14 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0591332**	**-.007953**	**.4263320**	**.0203147**	**-.000973**	**44.34172**
Stddev	.0011004	.001972	.0042597	.0027354	.001610	.23359
%RSD	1.860888	24.79237	.9991507	13.46513	165.4529	.5267893
#1	.0579968	-.006721	.4238983	.0173625	.000533	44.35016
#2	.0601937	-.006910	.4312506	.0227633	-.002670	44.57098
#3	.0592090	-.010227	.4238471	.0208183	-.000782	44.10403

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7193569**	**.0033287**	**.0065873**	**427.9800**	**.0858600**	**.0719076**
Stddev	.0038312	.0001173	.0000195	.9293	.0006739	.0002368
%RSD	.5325810	3.523129	.2965151	.2171378	.7848198	.3293192
#1	.7205975	.0031932	.0065986	427.9386	.0855300	.0720351
#2	.7224140	.0033963	.0065984	427.0721	.0854147	.0720535
#3	.7150592	.0033964	.0065647	428.9294	.0866352	.0716344

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2400446**	**135.3523**	**11.76849**	**132.3668**	**.1619687**	**-.012620**
Stddev	.0018774	.6361	.05351	.5768	.0008434	.000237
%RSD	.7821211	.4699378	.4546532	.4357696	.5207085	1.875071
#1	.2399195	135.3153	11.79656	132.4165	.1613152	-.012463
#2	.2419814	136.0060	11.80212	132.9171	.1629208	-.012892
#3	.2382328	134.7355	11.70679	131.7667	.1616701	-.012504

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9597083**	**.1130980**	**.8681322**	**6.106340**	**7.009396**	**.5859919**
Stddev	.1488347	.0010371	.0040682	.064898	.016283	.0027636
%RSD	15.50832	.9169693	.4686138	1.062797	.2323057	.4716032
#1	1.127467	.1124596	.8710133	6.145553	7.004176	.5854141
#2	.908146	.1142946	.8634784	6.142038	7.027649	.5889987
#3	.843511	.1125397	.8699048	6.031430	6.996363	.5835630

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-16 Acquired: 1/12/2025 7:36:14 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0037197	.9428853	F 16.29561	.0110837	.7994388	.0918224
Stddev	.0000506	.0027438	.00871	.0005292	.0009778	.0017459
%RSD	1.359509	.2910009	.0534416	4.774621	.1223109	1.901369
#1	.0036617	.9460434	16.30227	.0116500	.8003304	.0925163
#2	.0037547	.9415255	16.29881	.0109994	.7995931	.0931147
#3	.0037426	.9410869	16.28576	.0106017	.7983931	.0898363

Elem	Sr4077
Units	ppm
Avg	.3304557
Stddev	.0018989
%RSD	.5746155
#1	.3301651
#2	.3324831
#3	.3287190

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2806.761	67829.82	9949.457	3141.051	2951.827
Stddev	7.492	82.05	37.157	2.874	11.371
%RSD	.2669343	.1209607	.3734557	.0914831	.3852103
#1	2815.369	67763.51	9953.418	3139.895	2953.628
#2	2801.711	67804.37	9984.475	3144.323	2939.663
#3	2803.203	67921.57	9910.479	3138.936	2962.189

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-17 Acquired: 1/12/2025 7:40:18 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1004445	-.001149	1.955510	.0366533	-.001057	63.60127
Stddev	.0009351	.001304	.001171	.0026169	.000442	.26216
%RSD	.9309303	113.5392	.0598896	7.139603	41.83116	.4121862
#1	.1004317	-.001259	1.954692	.0340430	-.000930	63.61851
#2	.1013859	.000207	1.954986	.0392767	-.000692	63.85438
#3	.0995159	-.002394	1.956852	.0366401	-.001549	63.33092

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.079553	.0051007	.0094572	31.98111	.1469717	.0743396
Stddev	.012379	.0001206	.0000715	.08384	.0009218	.0002688
%RSD	.5952757	2.364191	.7564057	.2621618	.6272032	.3616344
#1	2.087832	.0049959	.0095397	31.99673	.1459990	.0742120
#2	2.085505	.0052325	.0094127	32.05605	.1470836	.0741583
#3	2.065322	.0050736	.0094191	31.89056	.1478325	.0746485

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4989982	158.7312	4.727683	15.55451	.1664336	-.011734
Stddev	.0009824	.6502	.019722	.12189	.0003133	.000073
%RSD	.1968805	.4096418	.4171498	.7836263	.1882471	.6185829
#1	.4994920	158.4799	4.731146	15.44690	.1665934	-.011785
#2	.4996358	159.4696	4.745443	15.68688	.1660726	-.011651
#3	.4978668	158.2442	4.706459	15.52975	.1666348	-.011767

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4413113	.1799058	2.709711	7.723718	9.012119	.6738424
Stddev	.1549709	.0013494	.004017	.071754	.026739	.0038427
%RSD	35.11601	.7500817	.1482466	.9290030	.2967056	.5702647
#1	.3791449	.1814240	2.705383	7.684876	8.995537	.6717805
#2	.6177131	.1794506	2.710431	7.806519	8.997854	.6782759
#3	.3270760	.1788428	2.713320	7.679758	9.042966	.6714707

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-17 Acquired: 1/12/2025 7:40:18 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0063383	2.842471	F 19.39315	.2013792	.8514726	.0956531
Stddev	.0005083	.009019	.01720	.0005702	.0033679	.0006320
%RSD	8.020160	.3172809	.0886761	.2831288	.3955410	.6607515
#1	.0060256	2.833587	19.41234	.2020365	.8543200	.0952781
#2	.0060645	2.842208	19.38796	.2010191	.8523428	.0952984
#3	.0069249	2.851618	19.37915	.2010819	.8477549	.0963828

Elem	Sr4077
Units	ppm
Avg	.1530393
Stddev	.0005753
%RSD	.3759207
#1	.1530333
#2	.1536176
#3	.1524671

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3126.065	73165.03	10410.02	3408.593	3406.565
Stddev	4.649	360.59	25.73	13.745	6.535
%RSD	.1487190	.4928384	.2471270	.4032465	.1918226
#1	3129.968	73444.13	10434.62	3423.428	3413.854
#2	3120.921	72757.90	10383.30	3396.289	3401.232
#3	3127.304	73293.07	10412.16	3406.064	3404.609

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-18 Acquired: 1/12/2025 7:44:14 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0826408**	**-.008848**	**.4221254**	**.0349005**	**-.004390**	**75.38456**
Stddev	.0003086	.001721	.0035023	.0018558	.000884	.31446
%RSD	.3734882	19.45173	.8296728	5.317500	20.14390	.4171351
#1	.0823514	-.010755	.4225866	.0359618	-.004065	75.70611
#2	.0829657	-.007409	.4253742	.0359821	-.005391	75.07772
#3	.0826053	-.008381	.4184154	.0327576	-.003714	75.36985

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7176104**	**.0061834**	**.0142878**	**30.48075**	**.1351235**	**.1320275**
Stddev	.0062981	.0000922	.0000968	.15206	.0001784	.0005441
%RSD	.8776545	1.491662	.6773565	.4988828	.1320159	.4120859
#1	.7248781	.0061660	.0143758	30.64501	.1349521	.1314121
#2	.7137472	.0062831	.0143036	30.34489	.1353081	.1322254
#3	.7142060	.0061011	.0141841	30.45234	.1351103	.1324449

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2379679**	**190.2212**	**9.108561**	**21.60341**	**.2463659**	**-.016922**
Stddev	.0010301	.5187	.054309	.01880	.0002357	.000505
%RSD	.4328589	.2726777	.5962414	.0870436	.0956604	2.986170
#1	.2384268	190.7150	9.170926	21.62491	.2461937	-.016590
#2	.2367881	189.6807	9.071690	21.59524	.2462695	-.017504
#3	.2386887	190.2678	9.083066	21.59006	.2466345	-.016673

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8498832**	**.1570655**	**.6779015**	**10.67204**	F **13.71593**	**.8051682**
Stddev	.0787508	.0007817	.0017018	.07187	.01026	.0026865
%RSD	9.266070	.4976890	.2510333	.6733959	.0747788	.3336591
#1	.8663916	.1578931	.6795660	10.75428	13.71666	.8079253
#2	.7641869	.1563397	.6761648	10.62134	13.72580	.8025583
#3	.9190712	.1569637	.6779738	10.64050	13.70532	.8050210

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-18 Acquired: 1/12/2025 7:44:14 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0070755	1.070338	F 15.85387	.0102646	.6906094	.0852856
Stddev	.0001739	.007139	.03994	.0006292	.0018979	.0004406
%RSD	2.457737	.6669606	.2519254	6.129542	.2748191	.5165654
#1	.0070031	1.070371	15.89218	.0095453	.6925035	.0848937
#2	.0072739	1.063182	15.85695	.0107128	.6906173	.0857624
#3	.0069495	1.077460	15.81248	.0105357	.6887076	.0852007

Elem	Sr4077
Units	ppm
Avg	.0910529
Stddev	.0002577
%RSD	.2829785
#1	.0912849
#2	.0907755
#3	.0910982

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4242.980	100471.2	14393.60	4688.753	3271.001
Stddev	9.185	240.5	81.11	16.599	3.420
%RSD	.2164655	.2393481	.5634931	.3540079	.1045538
#1	4253.332	100604.4	14465.97	4675.999	3272.486
#2	4239.800	100193.6	14305.93	4682.740	3267.090
#3	4235.809	100615.6	14408.89	4707.520	3273.429

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-01 Acquired: 1/12/2025 7:48:08 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN53 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0957128**	**-.009475**	**.1328359**	**-.001337**	**.0018467**	**21.82002**
Stddev	.0015175	.001413	.0031790	.003593	.0019755	.02885
%RSD	1.585458	14.91098	2.393186	268.6136	106.9723	.1322159
#1	.0940934	-.009399	.1292461	-.004645	.0016598	21.82461
#2	.0971021	-.010924	.1352947	.002485	.0039089	21.84630
#3	.0959429	-.008102	.1339671	-.001852	-.000029	21.78915

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7512604**	**.0032792**	**.0031559**	F **1869.795**	**.0457542**	**.0370618**
Stddev	.0003437	.0001294	.0001527	15.787	.0000858	.0004337
%RSD	.0457449	3.946990	4.838429	.8443213	.1875609	1.170152
#1	.7516457	.0031308	.0030021	1852.272	.0456665	.0365644
#2	.7511499	.0033688	.0033075	1882.909	.0458380	.0372603
#3	.7509855	.0033380	.0031581	1874.203	.0457581	.0373608

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1544940**	**100.6869**	**10.02042**	F **886.0473**	**.0789198**	**-.010752**
Stddev	.0024597	.2615	.02205	1.6792	.0006005	.000307
%RSD	1.592129	.2597623	.2200759	.1895150	.7608457	2.856908
#1	.1560768	100.7589	9.99571	885.7564	.0796101	-.010422
#2	.1557451	100.9048	10.02744	887.8530	.0785177	-.011029
#3	.1516602	100.3969	10.03810	884.5326	.0786318	-.010805

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.308169**	**.0841980**	**.3082929**	**2.684194**	**3.847404**	**.4422590**
Stddev	.135241	.0013741	.0015589	.040148	.005692	.0017558
%RSD	10.33819	1.632011	.5056407	1.495705	.1479492	.3970062
#1	1.418290	.0857845	.3094310	2.672839	3.843081	.4430807
#2	1.157217	.0833833	.3065161	2.728796	3.845277	.4434532
#3	1.348999	.0834262	.3089315	2.650946	3.853853	.4402430

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-01 Acquired: 1/12/2025 7:48:08 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN53 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0161513	3.497631	8.776891	-.001119	.3163590	.0807739
Stddev	.0007933	.014615	.033078	.001240	.0000915	.0008799
%RSD	4.911523	.4178463	.3768743	110.7762	.0289358	1.089330
#1	.0157062	3.499418	8.753573	.000280	.3164607	.0807118
#2	.0170672	3.482204	8.762352	-.001558	.3163331	.0816833
#3	.0156806	3.511270	8.814748	-.002080	.3162832	.0799268

Elem	Sr4077
Units	ppm
Avg	1.510177
Stddev	.017320
%RSD	1.146875
#1	1.506332
#2	1.529096
#3	1.495103

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2246.031	53764.40	8186.948	2453.305	2494.426
Stddev	5.655	141.76	18.585	4.886	4.543
%RSD	.2517920	.2636703	.2270130	.1991415	.1821121
#1	2239.673	53850.79	8206.755	2455.434	2493.555
#2	2250.500	53600.79	8184.197	2456.764	2499.341
#3	2247.920	53841.62	8169.890	2447.716	2490.381

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-02 Acquired: 1/12/2025 7:52:24 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN82 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0974284**	**-.003724**	**3.484342**	**.0319120**	**-.000125**	**52.14947**
Stddev	.0015726	.001058	.004309	.0023901	.002769	.05410
%RSD	1.614098	28.40914	.1236663	7.489525	2207.760	.1037434
#1	.0990928	-.004823	3.480654	.0338896	-.002306	52.21194
#2	.0972248	-.002712	3.483295	.0325903	.002990	52.11874
#3	.0959675	-.003638	3.489079	.0292561	-.001060	52.11773

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.396105**	**.0046651**	**.0134249**	**66.68797**	**.1766974**	**.0870009**
Stddev	.002124	.0001335	.0000592	.13556	.0003703	.0006502
%RSD	.1521531	2.860854	.4409144	.2032743	.2095683	.7473939
#1	1.397364	.0048090	.0134896	66.76943	.1767185	.0877445
#2	1.393653	.0046407	.0134116	66.53148	.1763170	.0865390
#3	1.397299	.0045455	.0133735	66.76299	.1770567	.0867193

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5153807**	**146.8960**	**8.197345**	**24.61670**	**.2211979**	**-.011418**
Stddev	.0016507	.0793	.017265	.02059	.0006576	.000428
%RSD	.3202864	.0539770	.2106162	.0836529	.2972789	3.750447
#1	.5171528	146.9305	8.201281	24.59658	.2219570	-.011316
#2	.5151027	146.8053	8.178452	24.63773	.2208311	-.011888
#3	.5138867	146.9521	8.212302	24.61579	.2208055	-.011050

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6421789**	**.1554662**	**3.307749**	**7.901297**	F **15.76964**	**.6245180**
Stddev	.1197642	.0018204	.004932	.017331	.03616	.0006860
%RSD	18.64966	1.170916	.1490905	.2193379	.2292751	.1098470
#1	.7361752	.1533642	3.302701	7.920898	15.77692	.6252753
#2	.6830272	.1565174	3.307993	7.894991	15.73040	.6239381
#3	.5073344	.1565170	3.312555	7.888003	15.80161	.6243405

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-02 Acquired: 1/12/2025 7:52:24 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN82 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0095445	4.315434	F 16.83890	.1757725	.9198904	.0734826
Stddev	.0001384	.010697	.05602	.0013397	.0027187	.0013437
%RSD	1.449873	.2478837	.3326548	.7621797	.2955485	1.828633
#1	.0095858	4.310128	16.89605	.1770178	.9229123	.0732255
#2	.0093902	4.308427	16.83654	.1743551	.9176429	.0722859
#3	.0096576	4.327747	16.78410	.1759446	.9191161	.0749363

Elem	Sr4077
Units	ppm
Avg	.1760362
Stddev	.0000676
%RSD	.0384075
#1	.1761120
#2	.1759820
#3	.1760147

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2971.073	71582.90	9836.748	3308.794	3363.405
Stddev	6.005	53.00	33.233	4.561	7.635
%RSD	.2021168	.0740351	.3378443	.1378354	.2270025
#1	2977.005	71545.36	9803.907	3314.048	3372.129
#2	2964.997	71643.52	9835.978	3306.469	3357.946
#3	2971.218	71559.82	9870.359	3305.864	3360.138

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-03 Acquired: 1/12/2025 7:56:19 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN82D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0973838**	**-.003000**	**3.467011**	**.0330345**	**.0003334**	**52.97057**
Stddev	.0027877	.001679	.012235	.0006396	.0004135	.15197
%RSD	2.862607	55.97741	.3528952	1.936193	124.0336	.2869040
#1	.0994034	-.004649	3.454834	.0337677	.0003378	53.13085
#2	.0942032	-.001292	3.466896	.0325915	.0007447	52.82855
#3	.0985446	-.003058	3.479303	.0327442	-.000082	52.95231

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.401916**	**.0045973**	**.0133206**	**67.43258**	**.1780666**	**.0868936**
Stddev	.001300	.0001382	.0001855	.07783	.0008525	.0002965
%RSD	.0927192	3.005961	1.392295	.1154251	.4787802	.3411842
#1	1.401606	.0044538	.0131084	67.50895	.1771302	.0867469
#2	1.403343	.0047296	.0134015	67.43542	.1782718	.0866990
#3	1.400800	.0046084	.0134519	67.35336	.1787978	.0872348

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5130573**	**149.2460**	**8.227433**	**24.90980**	**.2192071**	**-.011335**
Stddev	.0006647	.2519	.012222	.04752	.0011007	.000173
%RSD	.1295559	.1687641	.1485458	.1907679	.5021356	1.528104
#1	.5136079	149.5357	8.227659	24.94857	.2182764	-.011279
#2	.5123189	149.1241	8.239539	24.85679	.2189228	-.011196
#3	.5132451	149.0784	8.215099	24.92403	.2204220	-.011529

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6724972**	**.1531681**	**3.311097**	**8.046140**	F **15.45362**	**.6367540**
Stddev	.1199018	.0018380	.004585	.047597	.08499	.0019374
%RSD	17.82934	1.200007	.1384688	.5915482	.5499639	.3042612
#1	.7477593	.1546623	3.312448	8.090081	15.38418	.6389865
#2	.7355049	.1511157	3.305988	8.052758	15.42828	.6357620
#3	.5342274	.1537264	3.314854	7.995580	15.54840	.6355135

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-03 Acquired: 1/12/2025 7:56:19 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN82D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0093031	4.241706	F 16.55064	.1761762	.9095079	.0734786
Stddev	.0002525	.024142	.03156	.0005371	.0045919	.0013491
%RSD	2.714587	.5691578	.1906826	.3048670	.5048810	1.836112
#1	.0090124	4.220084	16.52224	.1765913	.9042061	.0729081
#2	.0094284	4.237278	16.54507	.1763677	.9122238	.0750193
#3	.0094684	4.267755	16.58461	.1755696	.9120938	.0725085

Elem	Sr4077
Units	ppm
Avg	.1812317
Stddev	.0003300
%RSD	.1821072
#1	.1814698
#2	.1808549
#3	.1813703

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2999.558	70876.51	9943.597	3318.030	3401.148
Stddev	8.878	117.61	39.388	20.756	10.627
%RSD	.2959722	.1659350	.3961175	.6255647	.3124583
#1	2996.753	70828.57	9982.228	3300.006	3406.557
#2	3009.500	71010.52	9945.071	3340.723	3407.983
#3	2992.421	70790.45	9903.493	3313.360	3388.904

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-02LX5 Acquired: 1/12/2025 8:00:14 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN82L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0204014**	**.0001114**	**.7278793**	**.0109434**	**.0009756**	**12.06810**	**.3109977**
Stddev	.0042981	.0010429	.0028333	.0025158	.0009380	.01275	.0009118
%RSD	21.06753	936.2987	.3892578	22.98884	96.14367	.1056307	.2931779
#1	.0162388	.0010888	.7266487	.0093723	-.000077	12.06006	.3106787
#2	.0201421	-.000987	.7258694	.0096129	.001723	12.08280	.3120262
#3	.0248232	.000232	.7311199	.0138451	.001281	12.06144	.3102883

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010612**	**.0025199**	**15.61972**	**.0416011**	**.0174697**	**.1177891**	**34.88182**
Stddev	.0000687	.0000438	.03166	.0002966	.0004907	.0033332	.03243
%RSD	6.469686	1.737996	.2027023	.7130865	2.808953	2.829771	.0929759
#1	.0010050	.0025616	15.58341	.0417580	.0173839	.1139501	34.87625
#2	.0011377	.0024743	15.64157	.0417864	.0170275	.1194702	34.91667
#3	.0010408	.0025237	15.63418	.0412589	.0179976	.1199469	34.85253

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.889988**	**5.783492**	**.0450721**	**-.002744**	**.1894657**	**.0345004**	**.7986996**
Stddev	.005963	.022300	.0002758	.000289	.1406829	.0009315	.0045755
%RSD	.3155141	.3855841	.6119225	10.53655	74.25246	2.700058	.5728690
#1	1.883286	5.781862	.0447604	-.002778	.2443890	.0336291	.8024682
#2	1.894708	5.762052	.0452846	-.002440	.2944021	.0343897	.7936085
#3	1.891971	5.806563	.0451713	-.003015	.0296059	.0354823	.8000220

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.952559**	**3.305413**	**.1449080**	**.0018881**	**.8879369**	**3.789347**	**.0350613**
Stddev	.055127	.015785	.0005071	.0000019	.0046119	.015603	.0000443
%RSD	2.823301	.4775415	.3499360	.1027236	.5193911	.4117717	.1264486
#1	1.890266	3.289973	.1452636	.0018871	.8836393	3.771987	.0351117
#2	1.995048	3.304745	.1451331	.0018904	.8873622	3.802201	.0350437
#3	1.972362	3.321521	.1443273	.0018869	.8928092	3.793854	.0350284

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-02LX5 Acquired: 1/12/2025 8:00:14 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN82L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2074725	.0170274	.0417862
Stddev	.0017313	.0007131	.0000553
%RSD	.8344506	4.187838	.1322388
#1	.2054852	.0166267	.0418335
#2	.2086542	.0178506	.0417255
#3	.2082779	.0166047	.0417997

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2572.274	61307.08	8524.296	2904.692	3402.023
Stddev	13.752	370.68	25.007	19.735	20.752
%RSD	.5346199	.6046246	.2933647	.6794264	.6099820
#1	2586.574	60895.62	8507.206	2889.690	3425.242
#2	2571.104	61614.93	8552.999	2927.049	3395.538
#3	2559.145	61410.70	8512.684	2897.338	3385.287

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV004 Acquired: 1/12/2025 8:04:15 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV004 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.729791**	**4.768263**	**24.37294**	**4.781056**	**4.673004**	**385.8093**
Stddev	.018120	.032863	.06466	.028650	.023992	7.2139
%RSD	.3831061	.6891929	.2652875	.5992360	.5134082	1.869822
#1	4.727587	4.764051	24.33057	4.790132	4.671562	379.7678
#2	4.712874	4.737709	24.34087	4.748967	4.649767	383.8636
#3	4.748912	4.803028	24.44736	4.804068	4.697685	393.7966

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.925977**	**.4946341**	**2.457623**	**392.1983**	**15.32934**	**2.464039**
Stddev	.021130	.0038814	.007836	5.1380	.13782	.006851
%RSD	.2128804	.7847075	.3188631	1.310048	.8990513	.2780436
#1	9.902618	.4906057	2.452552	387.3996	15.20220	2.461483
#2	9.931551	.4983496	2.453667	391.5765	15.31003	2.458833
#3	9.943761	.4949470	2.466648	397.6190	15.47580	2.471800

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.63250**	**390.4568**	**14.91063**	**244.9603**	**2.462612**	**1.226838**
Stddev	.02711	2.3913	.10339	1.5873	.006812	.010420
%RSD	.1853041	.6124304	.6933911	.6479679	.2766340	.8493661
#1	14.63442	389.8239	14.84859	244.3062	2.457899	1.215595
#2	14.65861	388.4456	14.85331	243.8045	2.459514	1.228747
#3	14.60448	393.1008	15.02998	246.7700	2.470423	1.236172

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**396.5722**	**2.410427**	**15.74113**	**148.0034**	**4.969229**	F **5.856666**
Stddev	.7201	.015258	.10529	.7946	.028603	.037238
%RSD	.1815727	.6330008	.6688541	.5368995	.5756008	.6358159
#1	395.7407	2.394201	15.62827	147.8295	4.975036	5.813683
#2	396.9856	2.412593	15.75843	147.3101	4.938168	5.879175
#3	396.9902	2.424486	15.83669	148.8706	4.994483	5.877138

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV004 Acquired: 1/12/2025 8:04:15 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV004 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.671301**	**4.946607**	**4.851418**	**4.879676**	**4.875290**	**4.845976**
Stddev	.020953	.031653	.022423	.014265	.018795	.025565
%RSD	.4485412	.6398944	.4621950	.2923295	.3855245	.5275593
#1	4.668907	4.951099	4.828713	4.876580	4.853730	4.838140
#2	4.651648	4.912947	4.873548	4.867213	4.888221	4.825246
#3	4.693348	4.975773	4.851993	4.895234	4.883921	4.874542

Elem	Sr4077
Units	ppm
Avg	**4.941095**
Stddev	.060192
%RSD	1.218190
#1	4.904950
#2	4.907754
#3	5.010579

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1981.157**	**50027.14**	**7679.056**	**2346.213**	**2669.618**
Stddev	5.286	336.64	31.494	13.397	5.471
%RSD	.2668389	.6729200	.4101237	.5710262	.2049534
#1	1979.784	50254.06	7713.457	2360.079	2671.659
#2	1986.995	50187.01	7651.645	2345.220	2673.775
#3	1976.693	49640.35	7672.066	2333.339	2663.419

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB004 Acquired: 1/12/2025 8:08:34 Type: Unk
Method: EPA SFAM01.0(v33) 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	**.0012740**	**-.000100**	**.0008626**	**.0006080**	**.0001041**	**.0111094**	**-.001328**
Stddev	.0016074	.000455	.0000612	.0013338	.0008117	.0040265	.000275
%RSD	126.1629	454.3485	7.090338	219.3777	780.0359	36.24432	20.73992
#1	.0008488	-.000570	.0007939	.0012196	-.000169	.0097368	-.001121
#2	.0030512	-.000069	.0008825	-.000922	.001017	.0079486	-.001641
#3	-.000078	.000339	.0009113	.001526	-.000536	.0156427	-.001223

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000026**	**.0001265**	**.0173201**	**.0000509**	**-.000074**	**.0002416**	**.0200541**
Stddev	.000099	.0001087	.0025327	.0003610	.000109	.0008845	.0028001
%RSD	385.1334	85.93539	14.62305	709.9656	147.3129	366.0827	13.96250
#1	-.000030	.0001563	.0177148	.0002702	-.000103	.0006895	.0183764
#2	.000075	.0002173	.0146132	-.000366	-.000166	.0008125	.0232865
#3	-.000122	.0000060	.0196322	.000248	.000047	-.000777	.0184994

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006798**	**.0191510**	**-.000135**	**.0002283**	**-.106786**	**-.002441**	**.0007824**
Stddev	.0005342	.0020231	.000130	.0003073	.127545	.000983	.0000374
%RSD	78.58316	10.56388	96.63030	134.5760	119.4400	40.27232	4.780608
#1	.0010078	.0209234	-.000132	-.000032	-.168631	-.001391	.0007461
#2	.0009682	.0169469	-.000006	.000150	.039891	-.002593	.0008208
#3	.0000634	.0195826	-.000267	.000567	-.191618	-.003340	.0007802

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1937641**	**-.001744**	**.0014608**	**.0004502**	**-.000279**	**.0016602**	**.0000323**
Stddev	.0256339	.001031	.0004897	.0000509	.002759	.0033386	.0006644
%RSD	13.22944	59.13689	33.52510	11.29954	989.2548	201.0985	2055.497
#1	.1742795	-.000691	.0008953	.0003973	-.003386	.0018943	-.000529
#2	.2228030	-.002753	.0017452	.0004546	.001883	.0048756	.000766
#3	.1842098	-.001788	.0017419	.0004988	.000667	-.001789	-.000140

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB004 Acquired: 1/12/2025 8:08:34 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB004 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000334	.0007768	.0000632
Stddev	.001032	.0011606	.0000481
%RSD	308.9161	149.4101	76.14780
#1	-.001323	.0015842	.0000722
#2	-.000416	.0012994	.0000112
#3	.000736	-.000553	.0001061

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2479.805	59032.16	8018.951	2779.270	3478.921
Stddev	14.137	39.52	62.898	10.090	18.087
%RSD	.5700812	.0669393	.7843677	.3630558	.5199059
#1	2466.678	59077.54	8056.310	2777.599	3467.584
#2	2477.966	59013.54	7946.332	2790.091	3469.399
#3	2494.772	59005.39	8054.210	2770.119	3499.780

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-04 Acquired: 1/12/2025 8:12:43 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN82S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1580257**	**.0961265**	**3.535311**	**.1757427**	**.1385258**	**57.31776**
Stddev	.0020104	.0010789	.003188	.0039102	.0012681	.34826
%RSD	1.272165	1.122385	.0901722	2.224965	.9154098	.6075934
#1	.1587507	.0949850	3.538969	.1721905	.1378652	57.54527
#2	.1595731	.0971294	3.533843	.1751051	.1377243	57.49116
#3	.1557535	.0962650	3.533123	.1799326	.1399877	56.91684

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.607052**	**.0863181**	**.1092399**	**69.23576**	**.5317874**	**1.056831**
Stddev	.079415	.0007476	.0002798	.51137	.0017503	.001102
%RSD	1.723781	.8660599	.2561235	.7385874	.3291304	.1042937
#1	4.649651	.0858906	.1094137	69.48412	.5333313	1.056808
#2	4.656079	.0858824	.1089172	69.57551	.5298860	1.055740
#3	4.515426	.0871814	.1093889	68.64765	.5321449	1.057945

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9042372**	**155.1780**	**9.241331**	**25.52568**	**1.195932**	**.0510515**
Stddev	.0013985	.9466	.073572	.14997	.001715	.0002678
%RSD	.1546620	.6100387	.7961149	.5875395	.1433708	.5246088
#1	.9030741	155.8464	9.275645	25.53610	1.196059	.0513588
#2	.9038485	155.5929	9.291476	25.67018	1.194158	.0509274
#3	.9057889	154.0947	9.156871	25.37077	1.197580	.0508682

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6235682**	**.9803477**	**4.225407**	**8.362630**	F **15.81604**	**.6717725**
Stddev	.2007722	.0028706	.009654	.015361	.02714	.0039042
%RSD	32.19731	.2928108	.2284678	.1836897	.1715846	.5811841
#1	.6592961	.9774270	4.214510	8.380355	15.79001	.6742357
#2	.4073306	.9804506	4.228821	8.353198	15.81392	.6738108
#3	.8040778	.9831654	4.232890	8.354336	15.84417	.6672709

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-04 Acquired: 1/12/2025 8:12:43 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN82S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0091544	4.399265	F 16.35827	.1764742	.8964052	.0752939
Stddev	.0000691	.012479	.07002	.0006266	.0014482	.0009260
%RSD	.7548466	.2836555	.4280189	.3550460	.1615544	1.229896
#1	.0092338	4.401525	16.30176	.1765449	.8950759	.0748569
#2	.0091078	4.385810	16.43660	.1758153	.8979485	.0763576
#3	.0091216	4.410459	16.33646	.1770624	.8961911	.0746672

Elem	Sr4077
Units	ppm
Avg	.1870073
Stddev	.0010202
%RSD	.5455499
#1	.1877223
#2	.1874606
#3	.1858390

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2930.423	68974.40	10047.28	3256.598	3301.310
Stddev	2.952	174.13	53.20	4.924	5.662
%RSD	.1007511	.2524570	.5295051	.1512028	.1715193
#1	2933.572	68787.78	10078.88	3262.222	3302.772
#2	2929.981	69002.90	10077.10	3254.514	3306.097
#3	2927.717	69132.52	9985.85	3253.059	3295.060

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-05 Acquired: 1/12/2025 8:16:38 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN83 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0794417	-.001573	2.545170	.0250493	-.000031	40.39911
Stddev	.0020033	.000783	.004121	.0019094	.000429	.23231
%RSD	2.521741	49.75473	.1618986	7.622745	1385.520	.5750333
#1	.0811998	-.000689	2.541340	.0269007	.000075	40.16339
#2	.0798645	-.002176	2.549530	.0251604	-.000502	40.40607
#3	.0772607	-.001854	2.544640	.0230867	.000335	40.62785

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.256891	.0034727	.0099674	43.88067	.1350038	.0631029
Stddev	.011717	.0000748	.0000499	.28342	.0005985	.0001360
%RSD	.9321881	2.154498	.5006563	.6458857	.4433080	.2155752
#1	1.246953	.0034423	.0099653	43.62287	.1353099	.0629760
#2	1.253909	.0035579	.0099186	43.83498	.1353873	.0630863
#3	1.269810	.0034178	.0100183	44.18416	.1343142	.0632465

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4361735	108.5298	6.144238	16.22949	.1580562	-.007495
Stddev	.0013966	.5787	.051467	.05113	.0007314	.000220
%RSD	.3201825	.5332015	.8376403	.3150349	.4627262	2.935272
#1	.4345691	107.9497	6.101894	16.18015	.1572299	-.007325
#2	.4368349	108.5326	6.129298	16.28224	.1586203	-.007743
#3	.4371164	109.1071	6.201521	16.22609	.1583184	-.007416

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4824345	.1136536	2.705570	5.426282	F 10.92192	.4673562
Stddev	.2915473	.0020984	.004602	.059515	.00554	.0026658
%RSD	60.43252	1.846346	.1700845	1.096798	.0507335	.5703969
#1	.7482278	.1126321	2.709197	5.359250	10.92647	.4646340
#2	.5284660	.1160672	2.707119	5.446681	10.91575	.4674728
#3	.1706097	.1122615	2.700393	5.472916	10.92355	.4699618

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-05 Acquired: 1/12/2025 8:16:38 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN83 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0058030	2.791375	F 13.87581	.1494899	.7476862	.0554836
Stddev	.0001193	.004607	.02627	.0002307	.0008053	.0010533
%RSD	2.055407	.1650543	.1893045	.1543206	.1077090	1.898355
#1	.0056811	2.796608	13.88352	.1492343	.7468320	.0566483
#2	.0059195	2.787927	13.89736	.1495528	.7484315	.0552043
#3	.0058084	2.789590	13.84655	.1496826	.7477953	.0545981

Elem	Sr4077
Units	ppm
Avg	.1498753
Stddev	.0008569
%RSD	.5717622
#1	.1489089
#2	.1501747
#3	.1505424

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2909.937	67283.89	9639.442	3157.803	3485.612
Stddev	5.545	96.56	61.043	.347	3.957
%RSD	.1905638	.1435096	.6332584	.0109746	.1135353
#1	2916.207	67374.76	9593.675	3158.116	3489.689
#2	2905.678	67294.40	9615.900	3157.863	3485.360
#3	2907.926	67182.50	9708.750	3157.431	3481.786

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-06 Acquired: 1/12/2025 8:20:34 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN84 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1039129**	**-.004010**	**9.795983**	**.0259398**	**-.001193**	**51.33361**
Stddev	.0043690	.001737	.038265	.0008894	.001140	.21082
%RSD	4.204499	43.31938	.3906201	3.428856	95.55796	.4106805
#1	.0989103	-.002051	9.767034	.0249141	-.000606	51.13052
#2	.1058499	-.004615	9.781549	.0264071	-.000466	51.31892
#3	.1069786	-.005363	9.839365	.0264982	-.002506	51.55138

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.401385**	**.0044977**	**.0128199**	**101.1373**	**.1492149**	**.0806645**
Stddev	.005134	.0001785	.0000938	.3325	.0006959	.0006806
%RSD	.3663523	3.968445	.7313354	.3287594	.4663450	.8437516
#1	1.396135	.0046091	.0127636	100.7791	.1486393	.0800173
#2	1.401625	.0045921	.0127679	101.1967	.1499882	.0806022
#3	1.406394	.0042918	.0129281	101.4361	.1490171	.0813742

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.86112**	**134.0743**	**8.607780**	**24.19484**	**.2031512**	**-.009055**
Stddev	.01544	.2455	.031496	.07569	.0006407	.000371
%RSD	.1301318	.1831220	.3659009	.3128534	.3153644	4.095860
#1	11.86629	133.8228	8.578875	24.11293	.2024312	-.008760
#2	11.84376	134.0866	8.603117	24.20940	.2033639	-.009471
#3	11.87330	134.3134	8.641347	24.26220	.2036584	-.008933

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5924688**	**.1363715**	**3.116440**	**7.211671**	F **14.74520**	**.5811719**
Stddev	.2598069	.0018764	.006754	.051544	.05892	.0012351
%RSD	43.85157	1.375946	.2167160	.7147340	.3996074	.2125180
#1	.2925334	.1385329	3.110810	7.166561	14.69184	.5799470
#2	.7370843	.1351594	3.114581	7.200602	14.73532	.5811515
#3	.7477888	.1354222	3.123929	7.267851	14.80844	.5824170

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-06 Acquired: 1/12/2025 8:20:34 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN84 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0068746	2.877925	F 15.91009	.7395932	.8045463	.0767031
Stddev	.0003334	.011785	.05814	.0018052	.0022012	.0011111
%RSD	4.848921	.4094834	.3654037	.2440800	.2735930	1.448551
#1	.0068848	2.865958	15.88538	.7381415	.8036451	.0764317
#2	.0065363	2.878300	15.86839	.7390237	.8029386	.0757528
#3	.0072028	2.889518	15.97650	.7416145	.8070550	.0779247

Elem	Sr4077
Units	ppm
Avg	.2217985
Stddev	.0007582
%RSD	.3418597
#1	.2211053
#2	.2216819
#3	.2226083

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2887.175	68018.41	9884.491	3187.606	3312.176
Stddev	3.270	190.19	10.365	2.653	7.360
%RSD	.1132443	.2796209	.1048632	.0832224	.2222161
#1	2883.996	68237.26	9888.445	3186.871	3317.438
#2	2890.528	67893.12	9872.730	3190.549	3315.326
#3	2887.000	67924.84	9892.297	3185.398	3303.766

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-07 Acquired: 1/12/2025 8:24:27 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN85 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0819059	-.006032	.9055760	.0213166	-.003269	50.91169
Stddev	.0007578	.000663	.0017496	.0022354	.000881	.31596
%RSD	.9251909	10.99708	.1931973	10.48655	26.94152	.6206075
#1	.0824475	-.005271	.9075879	.0238847	-.004162	51.27501
#2	.0822303	-.006487	.9044110	.0202579	-.003245	50.75887
#3	.0810399	-.006337	.9047293	.0198073	-.002401	50.70119

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6270567	.0035804	.0082851	456.7840	.1079727	.0902354
Stddev	.0075315	.0000442	.0000852	4.1458	.0004254	.0005287
%RSD	1.201084	1.233668	1.028195	.9076095	.3940261	.5859433
#1	.6356922	.0036243	.0082754	461.5065	.1084422	.0901535
#2	.6218482	.0035359	.0082053	453.7435	.1078632	.0897524
#3	.6236296	.0035811	.0083748	455.1019	.1076127	.0908003

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6215138	149.9871	8.775258	73.87439	.1849739	-.012371
Stddev	.0017710	.8832	.058700	.34326	.0003103	.000120
%RSD	.2849577	.5888461	.6689310	.4646569	.1677371	.9668130
#1	.6205532	151.0013	8.842928	74.26895	.1846912	-.012245
#2	.6204307	149.5733	8.738064	73.70988	.1853058	-.012382
#3	.6235576	149.3869	8.744781	73.64435	.1849247	-.012484

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6751170	.1277752	1.169551	9.257453	F 14.22876	.6538197
Stddev	.1193982	.0020717	.001311	.078694	.04364	.0050837
%RSD	17.68556	1.621391	.1121065	.8500562	.3066992	.7775342
#1	.7332159	.1255261	1.170861	9.344857	14.20777	.6596762
#2	.5377886	.1296056	1.169551	9.192231	14.19958	.6512375
#3	.7543464	.1281938	1.168239	9.235271	14.27892	.6505454

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-07 Acquired: 1/12/2025 8:24:27 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN85 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0062494	1.924007	F 15.11920	.0418704	.5866215	.0965892
Stddev	.0007086	.005326	.04837	.0006042	.0015048	.0012997
%RSD	11.33805	.2767925	.3199341	1.442970	.2565152	1.345652
#1	.0054464	1.918024	15.12374	.0423790	.5874269	.0979791
#2	.0067869	1.925768	15.16514	.0420297	.5848854	.0963846
#3	.0065148	1.928228	15.06872	.0412026	.5875522	.0954039

Elem	Sr4077
Units	ppm
Avg	.7780798
Stddev	.0050608
%RSD	.6504169
#1	.7838854
#2	.7757535
#3	.7746005

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2829.773	67381.02	10091.84	3145.019	2935.261
Stddev	5.834	161.43	52.28	13.016	6.814
%RSD	.2061692	.2395804	.5180207	.4138592	.2321548
#1	2836.186	67250.68	10142.33	3143.603	2942.075
#2	2828.352	67330.77	10037.94	3132.769	2935.261
#3	2824.780	67561.60	10095.24	3158.686	2928.446

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-08 Acquired: 1/12/2025 8:28:32 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN86 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0832938**	**-.005071**	**.6882938**	**.0209048**	**-.001144**	**48.10157**
Stddev	.0024260	.001250	.0042358	.0043891	.000495	.44941
%RSD	2.912530	24.64857	.6154077	20.99578	43.23962	.9342985
#1	.0853318	-.003715	.6836526	.0256716	-.001273	48.38314
#2	.0839391	-.006177	.6892778	.0170306	-.001562	47.58328
#3	.0806104	-.005321	.6919511	.0200121	-.000598	48.33829

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5056985**	**.0033749**	**.0070667**	**574.5144**	**.0959888**	**.0826774**
Stddev	.0058310	.0001657	.0000439	4.3939	.0008331	.0006206
%RSD	1.153057	4.908535	.6208263	.7647951	.8679567	.7506230
#1	.5077200	.0032770	.0070795	573.8363	.0955988	.0820923
#2	.4991258	.0035662	.0071027	570.4990	.0954221	.0826116
#3	.5102497	.0032815	.0070178	579.2079	.0969454	.0833282

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3816926**	**147.7458**	**7.310604**	**74.84104**	**.1598406**	**-.013333**
Stddev	.0031733	1.3501	.075696	.62082	.0004478	.000282
%RSD	.8313661	.9137958	1.035425	.8295168	.2801722	2.118739
#1	.3838604	148.5209	7.343687	75.15993	.1594876	-.013153
#2	.3780504	146.1869	7.223998	74.12559	.1603444	-.013659
#3	.3831671	148.5297	7.364126	75.23760	.1596900	-.013188

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9090796**	**.1101925**	**1.116807**	**8.974781**	F **10.11091**	**.6495075**
Stddev	.1860806	.0025541	.014287	.114351	.01499	.0056227
%RSD	20.46912	2.317824	1.279278	1.274142	.1482712	.8656923
#1	.8201460	.1126935	1.109406	9.012290	10.11531	.6525320
#2	.7841531	.1075885	1.107738	8.846386	10.09421	.6430199
#3	1.122940	.1102956	1.133276	9.065668	10.12321	.6529707

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-08 Acquired: 1/12/2025 8:28:32 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN86 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038460	1.473510	F 13.54974	.0272680	.4613966	.0961800
Stddev	.0002818	.007461	.14397	.0009413	.0047093	.0004285
%RSD	7.327968	.5063730	1.062544	3.452182	1.020668	.4454872
#1	.0040848	1.471484	13.63989	.0264693	.4653981	.0957968
#2	.0035351	1.467271	13.38370	.0270290	.4562070	.0961005
#3	.0039180	1.481775	13.62562	.0283059	.4625847	.0966426

Elem	Sr4077
Units	ppm
Avg	.7640338
Stddev	.0070219
%RSD	.9190505
#1	.7691088
#2	.7560200
#3	.7669726

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2774.918	65810.67	9959.097	3074.463	2923.019
Stddev	11.534	525.76	53.402	36.680	7.997
%RSD	.4156562	.7988961	.5362182	1.193054	.2735785
#1	2787.126	66066.71	9982.111	3082.338	2929.742
#2	2773.423	66159.36	9997.135	3106.566	2925.139
#3	2764.204	65205.93	9898.047	3034.485	2914.176

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-09 Acquired: 1/12/2025 8:32:38 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN87 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0786035**	**-.005580**	**.7047036**	**.0242283**	**-.000534**	**50.09627**
Stddev	.0019878	.000728	.0031142	.0024417	.002328	.25095
%RSD	2.528912	13.04641	.4419163	10.07808	436.3725	.5009325
#1	.0775906	-.004792	.7063807	.0261447	-.001539	49.80673
#2	.0808937	-.006228	.7066197	.0214791	-.002190	50.25097
#3	.0773261	-.005721	.7011103	.0250610	.002129	50.23112

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5118847**	**.0034866**	**.0067841**	**541.5120**	**.0965345**	**.0910831**
Stddev	.0039087	.0001280	.0001237	2.1892	.0004346	.0001101
%RSD	.7635980	3.671614	1.822795	.4042813	.4502145	.1208888
#1	.5081933	.0035618	.0069098	541.2287	.0960505	.0911273
#2	.5159795	.0033388	.0067799	543.8292	.0968914	.0909577
#3	.5114812	.0035593	.0066626	539.4783	.0966617	.0911642

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4291994**	**150.3893**	**7.749617**	**87.88318**	**.1658727**	**-.013209**
Stddev	.0019258	.4963	.039884	.35041	.0009453	.000445
%RSD	.4486917	.3300092	.5146606	.3987185	.5698755	3.369376
#1	.4291667	149.8162	7.711701	87.48744	.1657191	-.012864
#2	.4311413	150.6800	7.791214	88.15405	.1668854	-.013712
#3	.4272901	150.6716	7.745937	88.00805	.1650137	-.013053

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9789231**	**.1194891**	**.9388224**	**9.731421**	F **10.20934**	**.6567160**
Stddev	.0229334	.0009932	.0005060	.068430	.02731	.0037476
%RSD	2.342715	.8312285	.0539013	.7031845	.2674666	.5706556
#1	1.003313	.1204737	.9391863	9.653370	10.20044	.6525353
#2	.975662	.1184874	.9382445	9.781108	10.23999	.6597737
#3	.957795	.1195062	.9390362	9.759785	10.18760	.6578390

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-09 Acquired: 1/12/2025 8:32:38 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN87 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0044776	1.473882	F 13.68063	.0211012	.8545324	.1017469
Stddev	.0001065	.002631	.02086	.0006147	.0033113	.0007534
%RSD	2.378473	.1785209	.1524537	2.913207	.3874926	.7404270
#1	.0043829	1.475935	13.69189	.0208352	.8523009	.1009321
#2	.0044572	1.470916	13.69344	.0218041	.8583369	.1018904
#3	.0045929	1.474794	13.65656	.0206643	.8529593	.1024182

Elem	Sr4077
Units	ppm
Avg	.5300159
Stddev	.0021185
%RSD	.3997045
#1	.5275700
#2	.5312061
#3	.5312717

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2769.194	65548.26	9800.904	3070.657	2908.014
Stddev	2.251	319.75	31.329	5.965	6.653
%RSD	.0812923	.4878040	.3196518	.1942697	.2287825
#1	2771.792	65861.89	9798.516	3077.461	2908.587
#2	2767.839	65222.73	9770.837	3066.327	2901.093
#3	2767.950	65560.16	9833.358	3068.182	2914.362

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-10 Acquired: 1/12/2025 8:36:43 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN88 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0639593**	**-.004809**	**.2913888**	**.0101502**	**.0011999**	**38.83561**
Stddev	.0045281	.001620	.0056186	.0033762	.0015159	.10732
%RSD	7.079598	33.67721	1.928210	33.26205	126.3405	.2763366
#1	.0686671	-.003140	.2966142	.0106357	.0024222	38.71954
#2	.0635756	-.004914	.2854459	.0132573	-.000496	38.93122
#3	.0596354	-.006374	.2921062	.0065576	.001674	38.85608

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3107351**	**.0025762**	**.0062908**	F **935.6180**	**.0796549**	**.0687637**
Stddev	.0014771	.0000696	.0001512	5.1864	.0001534	.0005693
%RSD	.4753660	2.702764	2.403062	.5543269	.1925528	.8278430
#1	.3121055	.0025662	.0061528	940.2501	.0798298	.0682342
#2	.3109294	.0025121	.0062673	930.0147	.0795919	.0693658
#3	.3091705	.0026503	.0064524	936.5892	.0795431	.0686912

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3060509**	**119.5186**	**7.370330**	**246.1448**	**.1300085**	**-.011275**
Stddev	.0008504	.0897	.018829	.1822	.0005707	.000478
%RSD	.2778581	.0750787	.2554734	.0740241	.4389582	4.240955
#1	.3070302	119.4561	7.382250	245.9678	.1299598	-.011757
#2	.3054980	119.6214	7.380119	246.3318	.1294637	-.010801
#3	.3056247	119.4783	7.348623	246.1347	.1306020	-.011266

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9249515**	**.0841177**	**.7710730**	**7.985058**	**9.125745**	**.5325077**
Stddev	.0704960	.0008080	.0015636	.018744	.054746	.0011392
%RSD	7.621584	.9605808	.2027835	.2347427	.5999113	.2139372
#1	.8631004	.0832079	.7726470	7.968165	9.077156	.5312288
#2	1.001708	.0847516	.7695200	7.981786	9.115018	.5328805
#3	.910046	.0843936	.7710521	8.005223	9.185061	.5334139

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-10 Acquired: 1/12/2025 8:36:43 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN88 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048594	1.490462	F 12.39707	.0175656	.4332409	.0979751
Stddev	.0000826	.009236	.01712	.0004616	.0009773	.0005066
%RSD	1.700464	.6196999	.1381234	2.627706	.2255701	.5170885
#1	.0048600	1.483522	12.38257	.0170451	.4341316	.0983613
#2	.0049418	1.486919	12.41596	.0179252	.4333955	.0974015
#3	.0047765	1.500945	12.39267	.0177265	.4321955	.0981625

Elem	Sr4077
Units	ppm
Avg	.5988086
Stddev	.0011426
%RSD	.1908140
#1	.5978945
#2	.6000896
#3	.5984417

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2569.599	62074.17	9356.923	2892.485	2724.316
Stddev	3.592	87.59	20.882	10.877	1.886
%RSD	.1398012	.1411023	.2231717	.3760547	.0692412
#1	2567.501	62046.56	9339.557	2882.623	2722.595
#2	2573.747	62172.24	9380.093	2904.152	2726.332
#3	2567.549	62003.71	9351.118	2890.680	2724.021

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-11 Acquired: 1/12/2025 8:40:48 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNA1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1402781**	**-.004639**	**2.409571**	**.0290551**	**.0000517**	**55.34561**
Stddev	.0018563	.000384	.004649	.0031444	.0002676	.43208
%RSD	1.323283	8.280742	.1929301	10.82229	517.4244	.7806895
#1	.1382932	-.004868	2.406809	.0254322	.0002707	55.05134
#2	.1405700	-.004196	2.406966	.0310746	.0001310	55.14383
#3	.1419711	-.004854	2.414938	.0306584	-.000247	55.84167

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.256279**	**.0047862**	**.0112202**	**38.12426**	**.2508035**	**.0903567**
Stddev	.003457	.0000959	.0000604	.12650	.0003948	.0005434
%RSD	.2752149	2.003176	.5381989	.3318193	.1574091	.6014129
#1	1.255151	.0048476	.0112770	38.04479	.2508371	.0906180
#2	1.253525	.0048353	.0111568	38.05785	.2503931	.0897320
#3	1.260159	.0046757	.0112268	38.27014	.2511805	.0907201

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4013672**	**142.2187**	**9.343001**	**15.22701**	**.2058905**	**-.009489**
Stddev	.0006270	1.0409	.023562	.09116	.0001939	.000427
%RSD	.1562100	.7319150	.2521914	.5986606	.0941776	4.496221
#1	.4007101	141.5957	9.342756	15.15615	.2060831	-.009784
#2	.4019589	141.6400	9.319562	15.19504	.2058932	-.009684
#3	.4014327	143.4204	9.366684	15.32985	.2056953	-.009000

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4769992**	**.1487628**	**2.077033**	**8.615927**	F **14.02375**	**.6033391**
Stddev	.0641871	.0012078	.007716	.037645	.04865	.0051461
%RSD	13.45643	.8119247	.3715010	.4369237	.3468774	.8529278
#1	.5300744	.1492864	2.082194	8.592045	14.07142	.6006555
#2	.4952640	.1496205	2.068163	8.596414	13.97418	.6000895
#3	.4056592	.1473815	2.080743	8.659322	14.02565	.6092722

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-11 Acquired: 1/12/2025 8:40:48 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNA1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0130028	4.005957	F 15.88480	.0694937	.8549098	.0683931
Stddev	.0003256	.011489	.06712	.0009884	.0017195	.0016244
%RSD	2.503731	.2867913	.4225393	1.422285	.2011285	2.375071
#1	.0126316	4.002190	15.93147	.0706328	.8566660	.0670171
#2	.0132396	3.996824	15.91506	.0688618	.8548340	.0679771
#3	.0131374	4.018856	15.80788	.0689866	.8532296	.0701850

Elem	Sr4077
Units	ppm
Avg	.1530366
Stddev	.0016458
%RSD	1.075395
#1	.1518715
#2	.1523190
#3	.1549193

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3084.445	72972.68	10356.14	3396.493	3420.812
Stddev	4.740	338.37	46.79	19.519	4.514
%RSD	.1536598	.4636958	.4518033	.5746789	.1319457
#1	3086.808	72955.23	10302.15	3393.655	3425.244
#2	3078.989	73319.44	10384.81	3417.276	3420.970
#3	3087.539	72643.37	10381.47	3378.549	3416.222

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-12 Acquired: 1/12/2025 8:44:44 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNA2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1542985**	**-.004955**	**3.613804**	**.0350219**	**.0013586**	**61.95977**
Stddev	.0031247	.002083	.011314	.0042589	.0016462	.07668
%RSD	2.025108	42.04134	.3130748	12.16062	121.1683	.1237636
#1	.1512729	-.004029	3.618003	.0324855	.0012192	61.88929
#2	.1541089	-.003495	3.622419	.0326414	-.000213	62.04143
#3	.1575137	-.007340	3.600991	.0399388	.003070	61.94857

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.324188**	**.0053654**	**.0136603**	**44.98514**	**.2738466**	**.1026346**
Stddev	.002932	.0000159	.0000616	.02638	.0003215	.0002723
%RSD	.2213914	.2969019	.4505900	.0586402	.1173943	.2653527
#1	1.323763	.0053600	.0136187	45.00695	.2734811	.1024698
#2	1.327308	.0053529	.0136312	44.99264	.2739732	.1024850
#3	1.321491	.0053834	.0137310	44.95582	.2740855	.1029489

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4628163**	**164.5255**	**10.13847**	**17.31800**	**.2344530**	**-.012124**
Stddev	.0012926	.1520	.00849	.02975	.0007748	.000087
%RSD	.2792877	.0924111	.0837766	.1717588	.3304507	.7211713
#1	.4620624	164.3648	10.14822	17.30428	.2351673	-.012025
#2	.4643089	164.6671	10.13450	17.29760	.2345622	-.012191
#3	.4620777	164.5447	10.13268	17.35213	.2336294	-.012154

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5846359**	**.1692534**	**2.234692**	**8.433821**	F **19.28868**	**.6868354**
Stddev	.1651284	.0014004	.007564	.011349	.04424	.0005946
%RSD	28.24466	.8274062	.3384818	.1345698	.2293509	.0865666
#1	.7176298	.1695862	2.238529	8.444486	19.24141	.6861546
#2	.3998095	.1704574	2.239568	8.421893	19.32909	.6870988
#3	.6364685	.1677165	2.225978	8.435084	19.29554	.6872527

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-12 Acquired: 1/12/2025 8:44:44 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNA2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0110372	3.639711	F 13.87857	.0742118	.8975593	.0792864
Stddev	.0001344	.010299	.05709	.0015138	.0036399	.0011344
%RSD	1.217510	.2829498	.4113803	2.039844	.4055329	1.430713
#1	.0111741	3.633514	13.92213	.0732285	.8990183	.0797657
#2	.0110322	3.651599	13.89965	.0734517	.9002434	.0801024
#3	.0109054	3.634019	13.81394	.0759550	.8934163	.0779910

Elem	Sr4077
Units	ppm
Avg	.1696365
Stddev	.0005715
%RSD	.3369068
#1	.1691528
#2	.1702671
#3	.1694895

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3113.919	74956.32	10475.78	3502.605	3326.749
Stddev	1.759	175.43	28.45	11.954	4.003
%RSD	.0564800	.2340472	.2715782	.3412809	.1203184
#1	3115.855	74983.95	10444.73	3497.996	3324.670
#2	3113.482	75116.29	10500.60	3493.642	3324.213
#3	3112.420	74768.71	10482.00	3516.177	3331.363

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-13 Acquired: 1/12/2025 8:48:39 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNA3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1286802**	**-.005810**	**1.252461**	**.0322895**	**-.001693**	**61.56431**
Stddev	.0030979	.001438	.001322	.0029063	.000526	.25527
%RSD	2.407466	24.74667	.1055446	9.000683	31.07623	.4146372
#1	.1322517	-.007374	1.253962	.0338619	-.002282	61.84869
#2	.1270690	-.005508	1.251947	.0289358	-.001527	61.35498
#3	.1267199	-.004547	1.251472	.0340709	-.001270	61.48925

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.046994**	**.0052330**	**.0104459**	**26.19547**	**.1518755**	**.1093879**
Stddev	.009833	.0000150	.0000176	.13748	.0003945	.0000305
%RSD	.9391922	.2869888	.1679940	.5248152	.2597602	.0278442
#1	1.057352	.0052265	.0104257	26.35283	.1515025	.1094114
#2	1.037787	.0052501	.0104549	26.13491	.1522885	.1093987
#3	1.045844	.0052222	.0104572	26.09867	.1518356	.1093535

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3235908**	**165.6054**	**10.48150**	**16.02922**	**.1895291**	**-.013211**
Stddev	.0004877	.6219	.08275	.03881	.0006412	.000323
%RSD	.1507194	.3755559	.7894471	.2421444	.3383020	2.446238
#1	.3236281	166.3055	10.57492	16.07356	.1888713	-.013147
#2	.3240588	165.1167	10.41741	16.01270	.1895636	-.013561
#3	.3230855	165.3941	10.45218	16.00140	.1901523	-.012924

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4280866**	**.1616450**	**1.244820**	**6.010940**	F **11.96703**	**.6804735**
Stddev	.1061885	.0018088	.005068	.018573	.04604	.0033246
%RSD	24.80538	1.119000	.4071608	.3089932	.3847282	.4885708
#1	.5299126	.1634458	1.246665	6.001065	11.95970	.6841315
#2	.4363312	.1616609	1.248707	5.999389	11.92511	.6776359
#3	.3180162	.1598283	1.239087	6.032364	12.01630	.6796530

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-13 Acquired: 1/12/2025 8:48:39 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNA3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0075184	2.190742	F 18.01098	.0400506	.9544831	.0747310
Stddev	.0000474	.007241	.06671	.0006367	.0034957	.0016006
%RSD	.6307441	.3305135	.3703714	1.589859	.3662393	2.141862
#1	.0075670	2.185925	18.06525	.0395312	.9583987	.0760873
#2	.0074722	2.187232	18.03119	.0407610	.9533744	.0751403
#3	.0075158	2.199069	17.93651	.0398597	.9516762	.0729655

Elem	Sr4077
Units	ppm
Avg	.1132483
Stddev	.0003232
%RSD	.2854198
#1	.1136210
#2	.1130447
#3	.1130791

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3130.956	75926.09	10376.44	3511.664	3330.949
Stddev	3.269	237.41	49.80	10.277	7.908
%RSD	.1043958	.3126888	.4799275	.2926527	.2374179
#1	3127.182	75782.17	10385.47	3504.739	3322.970
#2	3132.877	75795.99	10322.75	3506.781	3338.784
#3	3132.809	76200.12	10421.12	3523.472	3331.092

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-14 Acquired: 1/12/2025 8:52:36 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNA4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1637898**	**-.004221**	**2.260362**	**.0374667**	**-.002278**	**69.13668**
Stddev	.0008396	.001338	.002706	.0011796	.001161	.52088
%RSD	.5126283	31.71104	.1197161	3.148486	50.96952	.7534113
#1	.1639187	-.002675	2.257455	.0363766	-.003448	69.69486
#2	.1628932	-.004986	2.260824	.0387191	-.002259	69.05164
#3	.1645575	-.005001	2.262808	.0373045	-.001126	68.66355

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.355451**	**.0059113**	**.0123111**	**34.90051**	**.2015082**	**.1164056**
Stddev	.012317	.0000429	.0001431	.22428	.0015508	.0001611
%RSD	.9086816	.7263837	1.162625	.6426146	.7696139	.1384016
#1	1.368083	.0059334	.0121799	35.13315	.2030793	.1165882
#2	1.354794	.0059387	.0122895	34.88270	.2014670	.1163449
#3	1.343476	.0058618	.0124637	34.68566	.1999784	.1162836

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4234606**	**174.7231**	**11.84928**	**17.42902**	**.2151687**	**-.011869**
Stddev	.0029757	1.2778	.09442	.12498	.0007215	.000420
%RSD	.7027110	.7313204	.7968570	.7170851	.3353075	3.536938
#1	.4210177	176.0121	11.94655	17.57042	.2145768	-.012050
#2	.4267747	174.7004	11.84329	17.38335	.2149569	-.011389
#3	.4225895	173.4568	11.75799	17.33331	.2159724	-.012169

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4935714**	**.1718225**	**1.815906**	**8.643063**	F **15.72253**	**.7295395**
Stddev	.0195830	.0024333	.011079	.089665	.03826	.0060212
%RSD	3.967611	1.416186	.6100878	1.037422	.2433134	.8253452
#1	.5152708	.1723373	1.827443	8.738286	15.72160	.7358257
#2	.4882302	.1739572	1.814925	8.630653	15.68475	.7289689
#3	.4772131	.1691729	1.805351	8.560248	15.76124	.7238239

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-14 Acquired: 1/12/2025 8:52:36 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNA4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0088282	3.019996	F 17.34489	.0676475	.9824850	.0860581
Stddev	.0002200	.008468	.06247	.0013228	.0046975	.0004519
%RSD	2.491902	.2804038	.3601460	1.955461	.4781251	.5251149
#1	.0087177	3.017997	17.32193	.0662869	.9793910	.0857637
#2	.0086855	3.012706	17.41559	.0677267	.9878903	.0865784
#3	.0090816	3.029285	17.29715	.0689290	.9801735	.0858323

Elem	Sr4077
Units	ppm
Avg	.1621656
Stddev	.0012229
%RSD	.7541104
#1	.1633892
#2	.1621641
#3	.1609434

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3202.806	74354.78	10683.23	3513.206	3339.180
Stddev	5.904	343.83	51.14	21.114	1.295
%RSD	.1843439	.4624193	.4787373	.6010001	.0387750
#1	3196.010	73966.96	10742.11	3488.939	3337.711
#2	3206.677	74475.10	10649.78	3523.295	3339.672
#3	3205.731	74622.29	10657.82	3527.383	3340.157

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-15 Acquired: 1/12/2025 8:56:31 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNA5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1111654**	**-.007606**	**.6315860**	**.0340262**	**-.003992**	**63.05279**
Stddev	.0015256	.001137	.0021841	.0006305	.001778	.02633
%RSD	1.372365	14.94152	.3458112	1.853054	44.52914	.0417569
#1	.1103797	-.007970	.6300128	.0347354	-.004803	63.07804
#2	.1129237	-.006332	.6306655	.0335290	-.001953	63.02550
#3	.1101929	-.008516	.6340796	.0338141	-.005219	63.05484

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8904893**	**.0050818**	**.0106536**	**20.77262**	**.1291649**	**.1192775**
Stddev	.0028773	.0000904	.0001730	.02683	.0002456	.0007411
%RSD	.3231175	1.779492	1.624214	.1291465	.1901273	.6213034
#1	.8937080	.0050899	.0106308	20.80153	.1289220	.1189040
#2	.8895931	.0051680	.0104930	20.76781	.1294131	.1187976
#3	.8881667	.0049876	.0108369	20.74853	.1291595	.1201311

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3063317**	**176.9929**	**14.18427**	**20.42573**	**.2108110**	**-.014499**
Stddev	.0013854	.1534	.02663	.01543	.0012265	.000222
%RSD	.4522455	.0866966	.1877630	.0755227	.5817865	1.534100
#1	.3049393	177.0969	14.21502	20.42550	.2100969	-.014251
#2	.3063459	176.8167	14.16918	20.41042	.2101089	-.014681
#3	.3077099	177.0652	14.16861	20.44126	.2122272	-.014565

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5700897**	**.1594641**	**.9104721**	**6.620822**	**8.334780**	**.7320988**
Stddev	.0731776	.0022284	.0021320	.033973	.021843	.0015344
%RSD	12.83615	1.397415	.2341600	.5131222	.2620709	.2095862
#1	.6498086	.1620359	.9083263	6.657642	8.322124	.7337501
#2	.5544923	.1581064	.9125899	6.614133	8.322215	.7307171
#3	.5059684	.1582501	.9105002	6.590692	8.360003	.7318292

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-15 Acquired: 1/12/2025 8:56:31 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNA5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0067271	1.127677	F 15.92339	.0222628	.8118936	.0834185
Stddev	.0002859	.006398	.01256	.0001836	.0030531	.0009728
%RSD	4.250675	.5673915	.0788860	.8245935	.3760474	1.166208
#1	.0070112	1.127161	15.93712	.0221053	.8153940	.0841072
#2	.0064394	1.121552	15.91247	.0224644	.8105064	.0823056
#3	.0067307	1.134317	15.92059	.0222187	.8097803	.0838426

Elem	Sr4077
Units	ppm
Avg	.0871474
Stddev	.0000627
%RSD	.0719563
#1	.0871010
#2	.0872187
#3	.0871224

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3427.353	80999.01	11363.13	3826.858	3313.608
Stddev	8.205	113.32	8.82	1.177	7.192
%RSD	.2393859	.1399069	.0775879	.0307474	.2170496
#1	3423.859	80868.71	11361.27	3825.503	3317.831
#2	3436.726	81053.75	11355.39	3827.628	3317.690
#3	3421.473	81074.57	11372.73	3827.441	3305.304

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-16 Acquired: 1/12/2025 9:00:27 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNA6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1431378**	**-.009017**	**.3576234**	**.0217889**	**-.004599**	**50.17681**
Stddev	.0004233	.001354	.0025659	.0009112	.001824	.44743
%RSD	.2957113	15.01519	.7174774	4.181951	39.66242	.8917149
#1	.1435904	-.007914	.3586636	.0209260	-.003769	50.29991
#2	.1430713	-.008608	.3595058	.0227418	-.003337	50.54980
#3	.1427517	-.010528	.3547007	.0216990	-.006690	49.68071

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6916910**	**.0046460**	**.0096068**	**238.2216**	**.1109453**	**.1026040**
Stddev	.0075423	.0000910	.0002306	2.0938	.0005189	.0006068
%RSD	1.090414	1.958585	2.399995	.8789295	.4676715	.5913990
#1	.6937471	.0045965	.0093630	238.3971	.1114208	.1025031
#2	.6979921	.0047510	.0096361	240.2222	.1103919	.1020540
#3	.6833339	.0045905	.0098213	236.0456	.1110232	.1032550

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1745507**	**137.0172**	**18.31922**	**21.79875**	**.1824995**	**-.010840**
Stddev	.0009340	1.3427	.16846	.22284	.0006736	.000560
%RSD	.5351175	.9799683	.9195706	1.022268	.3690778	5.165451
#1	.1756162	137.2393	18.33431	21.75892	.1819292	-.010195
#2	.1738729	138.2350	18.47962	22.03882	.1823265	-.011127
#3	.1741631	135.5772	18.14372	21.59851	.1832426	-.011198

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3158117**	**.1042947**	**.6324178**	**8.567433**	**6.284347**	**.5912953**
Stddev	.1830940	.0018225	.0006452	.078682	.009635	.0074519
%RSD	57.97567	1.747487	.1020213	.9183836	.1533173	1.260259
#1	.2245500	.1061679	.6331355	8.581944	6.292409	.5923651
#2	.1962854	.1025275	.6322317	8.637849	6.273676	.5981545
#3	.5265997	.1041885	.6318860	8.482505	6.286955	.5833664

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-16 Acquired: 1/12/2025 9:00:27 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNA6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0143125	.7346265	F 15.05347	.0072543	.5940825	.0858376
Stddev	.0001824	.0068024	.03957	.0010645	.0017293	.0007007
%RSD	1.274357	.9259666	.2628728	14.67392	.2910951	.8163215
#1	.0141711	.7417605	15.00782	.0065021	.5939552	.0864923
#2	.0145184	.7339060	15.07461	.0084723	.5958719	.0850985
#3	.0142480	.7282130	15.07798	.0067886	.5924202	.0859220

Elem	Sr4077
Units	ppm
Avg	.1791193
Stddev	.0020901
%RSD	1.166882
#1	.1794935
#2	.1809971
#3	.1768674

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3032.904	70294.85	10297.99	3334.706	3172.122
Stddev	5.219	338.51	57.94	6.118	6.994
%RSD	.1720654	.4815504	.5626126	.1834677	.2204722
#1	3027.017	70384.37	10348.17	3335.214	3165.712
#2	3036.962	69920.59	10311.21	3328.349	3179.581
#3	3034.733	70579.60	10234.58	3340.554	3171.075

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-17 Acquired: 1/12/2025 9:04:24 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNA7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0887245**	**-.014481**	**.2762101**	**.0167631**	**-.003450**	**50.27045**
Stddev	.0032492	.002310	.0037104	.0037045	.001028	.29682
%RSD	3.662085	15.95338	1.343316	22.09903	29.78781	.5904453
#1	.0894626	-.016435	.2719344	.0163117	-.003879	50.60754
#2	.0851698	-.011931	.2785840	.0206725	-.002278	50.15559
#3	.0915412	-.015078	.2781119	.0133049	-.004195	50.04823

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9371294**	**.0045878**	**.0106005**	**740.7745**	**.0994095**	**.1066970**
Stddev	.0083450	.0000584	.0000666	3.2431	.0003556	.0002108
%RSD	.8904906	1.273050	.6277980	.4377939	.3577463	.1975500
#1	.9466265	.0046343	.0105244	743.8860	.0989997	.1066172
#2	.9337930	.0046069	.0106480	737.4142	.0996373	.1065378
#3	.9309688	.0045223	.0106291	741.0231	.0995916	.1069360

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4195770**	**148.1940**	**22.84766**	**51.06612**	**.2002800**	**-.010858**
Stddev	.0041689	.6941	.03872	.28324	.0006789	.000431
%RSD	.9935940	.4683655	.1694883	.5546571	.3389640	3.966010
#1	.4163887	148.9621	22.88318	51.35486	.1997568	-.010862
#2	.4180478	148.0079	22.85343	51.05479	.2000362	-.010425
#3	.4242946	147.6119	22.80638	50.78871	.2010472	-.011286

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6889798**	**.1049026**	**.7656848**	**7.793097**	**6.739489**	**.6407801**
Stddev	.0864352	.0015834	.0021694	.117931	.024639	.0027423
%RSD	12.54539	1.509419	.2833323	1.513280	.3655972	.4279628
#1	.5917071	.1067000	.7644713	7.928016	6.765242	.6438700
#2	.7182628	.1037134	.7643935	7.741616	6.716140	.6398348
#3	.7569696	.1042946	.7681894	7.709658	6.737083	.6386355

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-17 Acquired: 1/12/2025 9:04:24 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNA7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045294	1.506558	F 14.21728	.0031759	.5360568	.0976899
Stddev	.0004000	.007806	.02989	.0004771	.0037060	.0005965
%RSD	8.831048	.5181591	.2102267	15.02256	.6913536	.6105902
#1	.0043681	1.497959	14.19379	.0029006	.5332241	.0983786
#2	.0049848	1.508518	14.25092	.0029003	.5346953	.0973399
#3	.0042352	1.513199	14.20714	.0037268	.5402511	.0973512

Elem	Sr4077
Units	ppm
Avg	.5087346
Stddev	.0025296
%RSD	.4972381
#1	.5116522
#2	.5073959
#3	.5071556

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2888.472	67595.07	10261.09	3203.932	2874.277
Stddev	3.871	83.10	61.49	5.216	4.874
%RSD	.1340266	.1229371	.5992266	.1628083	.1695875
#1	2885.460	67499.16	10326.60	3209.577	2872.125
#2	2887.117	67645.75	10252.05	3199.291	2879.857
#3	2892.839	67640.29	10204.63	3202.926	2870.849

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-18 Acquired: 1/12/2025 9:08:39 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNJ9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0712041	-.004434	.2842548	.0274823	-.002914	54.37287
Stddev	.0007453	.001887	.0015086	.0023956	.001872	.19600
%RSD	1.046779	42.55527	.5307104	8.716989	64.25477	.3604721
#1	.0703793	-.006352	.2839146	.0289882	-.001556	54.21539
#2	.0714036	-.002579	.2859044	.0287389	-.002137	54.59238
#3	.0718294	-.004371	.2829453	.0247198	-.005050	54.31084

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9032155	.0037084	.0093141	82.93243	.1201995	.0960061
Stddev	.0020724	.0000223	.0000614	.26511	.0000836	.0000921
%RSD	.2294503	.6014838	.6587948	.3196736	.0695311	.0958798
#1	.9011218	.0037196	.0093104	82.83082	.1201215	.0959372
#2	.9052659	.0036827	.0093772	83.23332	.1201894	.0959704
#3	.9032589	.0037229	.0092546	82.73315	.1202877	.0961106

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3478637	154.9346	10.48016	37.23071	.2268156	-.012336
Stddev	.0013744	.5656	.02542	.13333	.0005465	.000493
%RSD	.3950845	.3650892	.2425511	.3581052	.2409641	3.998235
#1	.3476300	154.4907	10.46325	37.17417	.2262000	-.012538
#2	.3466212	155.5715	10.50939	37.38299	.2272439	-.012695
#3	.3493399	154.7415	10.46783	37.13498	.2270028	-.011773

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.049571	.1255653	1.238212	6.745965	F 11.17656	.6606888
Stddev	.094332	.0008181	.004267	.045617	.01418	.0040655
%RSD	8.987721	.6515579	.3446000	.6762142	.1268899	.6153435
#1	1.044849	.1247853	1.239226	6.769979	11.18783	.6570194
#2	1.146175	.1254937	1.241880	6.774558	11.16063	.6650593
#3	.957688	.1264169	1.233529	6.693357	11.18121	.6599878

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-18 Acquired: 1/12/2025 9:08:39 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNJ9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024483	1.507845	F 15.53362	.0070292	.7500059	.0803905
Stddev	.0000976	.006953	.07988	.0010438	.0015709	.0011290
%RSD	3.986133	.4610955	.5142636	14.84967	.2094518	1.404456
#1	.0025415	1.506057	15.60617	.0071511	.7507364	.0798641
#2	.0024565	1.501962	15.44801	.0059298	.7482027	.0796208
#3	.0023468	1.515518	15.54667	.0080068	.7510785	.0816866

Elem	Sr4077
Units	ppm
Avg	.1565996
Stddev	.0006831
%RSD	.4362339
#1	.1559055
#2	.1572712
#3	.1566221

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3280.623	76075.78	11017.34	3584.003	3250.854
Stddev	6.767	208.12	50.22	7.757	5.287
%RSD	.2062786	.2735714	.4558506	.2164410	.1626273
#1	3277.098	76018.76	10966.66	3580.685	3252.988
#2	3288.425	75902.11	11067.09	3578.456	3254.741
#3	3276.347	76306.46	11018.27	3592.867	3244.834

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-19 Acquired: 1/12/2025 9:12:34 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1317132	-.004066	2.217426	.0295680	.0047256	50.33985
Stddev	.0013164	.000663	.001042	.0023448	.0012018	.20090
%RSD	.9994194	16.30560	.0469755	7.930314	25.43077	.3990965
#1	.1330019	-.004497	2.217294	.0270274	.0035444	50.34865
#2	.1317668	-.003303	2.216457	.0300277	.0059470	50.13468
#3	.1303708	-.004398	2.218527	.0316490	.0046856	50.53620

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.170256	.0045060	.0102714	34.74668	.2254136	.0969330
Stddev	.001689	.0001586	.0000581	.07076	.0005932	.0001052
%RSD	.1442930	3.520463	.5658785	.2036461	.2631558	.1085476
#1	1.170182	.0044881	.0103027	34.71609	.2247542	.0969576
#2	1.171980	.0046729	.0102043	34.69635	.2255830	.0968177
#3	1.168605	.0043571	.0103071	34.82758	.2259037	.0970238

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3692399	137.5743	8.895573	13.96641	.1820833	-.009792
Stddev	.0014028	.5330	.011379	.04215	.0000705	.000250
%RSD	.3799160	.3874063	.1279143	.3018047	.0386900	2.554726
#1	.3701212	137.5138	8.895814	13.97650	.1820191	-.009744
#2	.3676222	137.0741	8.906829	13.92013	.1821587	-.010063
#3	.3699763	138.1349	8.884075	14.00260	.1820720	-.009570

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.015819	.1375906	1.907387	8.055239	F 13.16492	.6970617
Stddev	.105204	.0013466	.006271	.044977	.04739	.0031722
%RSD	10.35653	.9786693	.3287824	.5583625	.3599470	.4550802
#1	1.059044	.1389764	1.913737	8.094600	13.14284	.6954735
#2	1.092524	.1362871	1.907226	8.006215	13.13261	.6949973
#3	.895888	.1375084	1.901198	8.064901	13.21932	.7007143

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-19 Acquired: 1/12/2025 9:12:34 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0129287	3.716918	F 15.91776	.1285801	.8761574	.0604651
Stddev	.0002290	.016629	.08318	.0009836	.0037007	.0006156
%RSD	1.771233	.4473832	.5225705	.7649724	.4223757	1.018162
#1	.0128111	3.711393	15.98476	.1284548	.8755060	.0611221
#2	.0127823	3.703755	15.94386	.1296203	.8801406	.0599015
#3	.0131925	3.735606	15.82466	.1276651	.8728257	.0603716

Elem	Sr4077
Units	ppm
Avg	.1444378
Stddev	.0007910
%RSD	.5476703
#1	.1444040
#2	.1436641
#3	.1452451

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2997.679	70468.18	10056.08	3313.312	3376.967
Stddev	3.213	405.55	22.50	4.310	2.583
%RSD	.1071801	.5755023	.2237489	.1300927	.0764768
#1	2994.231	70768.84	10081.98	3314.235	3374.186
#2	3000.589	70628.76	10041.35	3317.086	3379.291
#3	2998.215	70006.93	10044.91	3308.615	3377.423

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-01 Acquired: 1/12/2025 9:16:29 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMP6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0574421**	**-.002464**	**.5484851**	**.0320074**	**-.001683**	**72.58691**
Stddev	.0018705	.000749	.0029572	.0016492	.001034	.41988
%RSD	3.256328	30.39999	.5391487	5.152400	61.45448	.5784504
#1	.0595737	-.003326	.5514904	.0334461	-.002674	73.07174
#2	.0566781	-.002099	.5483865	.0323685	-.000610	72.34528
#3	.0560745	-.001968	.5455786	.0302076	-.001764	72.34369

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5344200**	**.0039343**	**.0056895**	**27.10885**	**.1347851**	**.0755133**
Stddev	.0037140	.0001313	.0001469	.19035	.0009790	.0002914
%RSD	.6949658	3.336319	2.582926	.7021702	.7263342	.3858606
#1	.5387059	.0040859	.0055829	27.32689	.1355413	.0751769
#2	.5324084	.0038609	.0058571	27.02390	.1351348	.0756781
#3	.5321457	.0038562	.0056284	26.97577	.1336793	.0756850

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1543314**	**145.7887**	**5.853982**	**18.94895**	**.1881343**	**-.013866**
Stddev	.0012589	.9510	.053490	.10424	.0003194	.000280
%RSD	.8157009	.6523062	.9137414	.5500858	.1697901	2.018489
#1	.1557005	146.8589	5.915675	19.05688	.1878245	-.013910
#2	.1532239	145.4669	5.825712	18.94111	.1884626	-.013566
#3	.1540699	145.0404	5.820558	18.84885	.1881158	-.014121

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4340035**	**.1590813**	**.5840541**	**3.821904**	**9.533777**	**.5981538**
Stddev	.1558352	.0010562	.0023845	.050652	.025858	.0062523
%RSD	35.90644	.6639613	.4082620	1.325320	.2712288	1.045259
#1	.2713720	.1579326	.5843874	3.877938	9.506511	.6050497
#2	.5820115	.1593006	.5862545	3.779368	9.557949	.5965566
#3	.4486269	.1600107	.5815206	3.808404	9.536870	.5928550

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-01 Acquired: 1/12/2025 9:16:29 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMP6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055631	1.321815	F 17.38408	.0226769	.9256767	.0755172
Stddev	.0004082	.009244	.08115	.0004362	.0047479	.0012854
%RSD	7.338017	.6993291	.4668316	1.923394	.5129107	1.702160
#1	.0053747	1.313148	17.47715	.0225934	.9307939	.0769793
#2	.0052831	1.320754	17.34697	.0222886	.9248221	.0750078
#3	.0060315	1.331544	17.32812	.0231488	.9214142	.0745646

Elem	Sr4077
Units	ppm
Avg	.0681313
Stddev	.0004825
%RSD	.7081314
#1	.0686773
#2	.0679540
#3	.0677626

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2751.780	68167.80	9306.762	3171.175	3302.458
Stddev	.357	266.07	29.917	15.624	4.530
%RSD	.0129620	.3903225	.3214545	.4926899	.1371777
#1	2751.558	67937.92	9296.810	3162.410	3307.517
#2	2752.192	68106.20	9283.090	3161.901	3301.081
#3	2751.591	68459.27	9340.387	3189.214	3298.776

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-02 Acquired: 1/12/2025 9:20:27 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMP7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1007516**	**-.003764**	**.7034413**	**.0330652**	**-.002560**	**78.23887**
Stddev	.0030625	.000719	.0027606	.0006885	.000494	.38233
%RSD	3.039697	19.09541	.3924429	2.082119	19.30795	.4886649
#1	.1042780	-.004075	.7009374	.0331926	-.002972	77.98906
#2	.0992182	-.002942	.7064017	.0336811	-.002696	78.04855
#3	.0987587	-.004274	.7029846	.0323220	-.002012	78.67901

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8046367**	**.0047223**	**.0071957**	**115.2551**	**.1467352**	**.0902238**
Stddev	.0034199	.0000964	.0000785	.4843	.0002050	.0001767
%RSD	.4250203	2.040800	1.090846	.4202049	.1396806	.1958786
#1	.8015333	.0048331	.0072824	114.9518	.1467895	.0900748
#2	.8040737	.0046750	.0071295	114.9998	.1465085	.0904191
#3	.8083032	.0046587	.0071751	115.8136	.1469075	.0901775

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2889573**	**171.5977**	**8.222101**	**30.16688**	**.1900188**	**-.014893**
Stddev	.0020665	.6188	.027259	.11590	.0002509	.000150
%RSD	.7151756	.3606207	.3315278	.3841950	.1320350	1.005095
#1	.2900638	171.2099	8.198710	30.05813	.1898072	-.014740
#2	.2902349	171.2718	8.215558	30.15371	.1899531	-.014900
#3	.2865731	172.3113	8.252036	30.28881	.1902959	-.015039

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4652022**	**.1665153**	**.7687144**	**5.564693**	**6.816893**	**.7153041**
Stddev	.2873455	.0008140	.0011147	.013410	.019508	.0033913
%RSD	61.76788	.4888314	.1450015	.2409760	.2861749	.4741096
#1	.7434781	.1667812	.7696909	5.559942	6.800227	.7121658
#2	.4825549	.1656016	.7675000	5.554306	6.812102	.7148449
#3	.1695735	.1671630	.7689523	5.579832	6.838351	.7189017

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-02 Acquired: 1/12/2025 9:20:27 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMP7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053114	1.486815	F 17.29640	.0431082	.8162173	.0912499
Stddev	.0006321	.005678	.09087	.0018207	.0015896	.0004011
%RSD	11.90013	.3819088	.5253815	4.223614	.1947508	.4395693
#1	.0059155	1.481930	17.33885	.0450103	.8143853	.0916322
#2	.0053641	1.493045	17.35827	.0413816	.8172318	.0908323
#3	.0046547	1.485469	17.19206	.0429326	.8170347	.0912852

Elem	Sr4077
Units	ppm
Avg	.1448354
Stddev	.0005448
%RSD	.3761651
#1	.1443665
#2	.1447066
#3	.1454331

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2908.856	69741.37	9926.048	3244.836	3269.811
Stddev	1.333	85.26	53.111	8.000	10.431
%RSD	.0458332	.1222484	.5350633	.2465568	.3190026
#1	2907.411	69792.77	9906.294	3243.058	3281.379
#2	2910.037	69788.38	9885.646	3237.873	3261.122
#3	2909.121	69642.96	9986.205	3253.575	3266.931

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-03 Acquired: 1/12/2025 9:24:24 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMP8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0530135**	**-.003101**	**.1913164**	**.0174188**	**-.000385**	**51.59741**
Stddev	.0012909	.003281	.0024415	.0020438	.000731	.10896
%RSD	2.435056	105.8122	1.276166	11.73317	189.8498	.2111747
#1	.0545038	-.005100	.1929826	.0163283	-.000308	51.69699
#2	.0522946	.000686	.1885139	.0197765	.000304	51.48102
#3	.0522422	-.004888	.1924528	.0161516	-.001151	51.61421

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5856711**	**.0034855**	**.0051472**	**447.5247**	**.0971462**	**.0734813**
Stddev	.0010142	.0000620	.0000807	1.0877	.0003669	.0002374
%RSD	.1731689	1.778111	1.568121	.2430475	.3776533	.3230349
#1	.5857857	.0034428	.0051198	447.9554	.0968988	.0735449
#2	.5866232	.0035565	.0050837	448.3311	.0975677	.0736805
#3	.5846045	.0034570	.0052380	446.2876	.0969722	.0732187

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2551018**	**135.5664**	**7.196760**	**161.4976**	**.1463770**	**-.012492**
Stddev	.0019260	.2092	.006635	.1971	.0007211	.000411
%RSD	.7549790	.1543335	.0922004	.1220537	.4926254	3.292065
#1	.2568952	135.7995	7.202100	161.4591	.1471794	-.012096
#2	.2530662	135.3949	7.198849	161.3226	.1457832	-.012917
#3	.2553441	135.5048	7.189332	161.7111	.1461685	-.012462

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6762225**	**.1169116**	**.4635111**	**6.379572**	**5.153587**	**.5826890**
Stddev	.0735724	.0011558	.0021977	.057572	.006621	.0005510
%RSD	10.87991	.9885942	.4741364	.9024402	.1284782	.0945645
#1	.6115756	.1155774	.4653429	6.390917	5.152395	.5833106
#2	.6608126	.1176060	.4641162	6.317173	5.147643	.5822606
#3	.7562794	.1175515	.4610743	6.430627	5.160724	.5824957

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-03 Acquired: 1/12/2025 9:24:24 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMP8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032879	1.069743	F 13.53114	.0063866	.7597691	.0969329
Stddev	.0002458	.003368	.01672	.0010913	.0005829	.0011051
%RSD	7.474991	.3148607	.1235776	17.08704	.0767194	1.140096
#1	.0030042	1.067859	13.51190	.0051305	.7592037	.0981635
#2	.0034350	1.067739	13.54218	.0071012	.7597355	.0966098
#3	.0034246	1.073632	13.53934	.0069281	.7603680	.0960252

Elem	Sr4077
Units	ppm
Avg	.3568422
Stddev	.0013272
%RSD	.3719205
#1	.3580531
#2	.3554233
#3	.3570500

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2742.351	64557.25	9699.965	3026.085	2917.237
Stddev	3.962	97.92	41.510	10.987	5.489
%RSD	.1444585	.1516806	.4279447	.3630662	.1881445
#1	2738.859	64669.75	9745.658	3016.574	2913.551
#2	2741.540	64510.85	9689.659	3023.569	2914.616
#3	2746.656	64491.15	9664.579	3038.111	2923.545

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-04 Acquired: 1/12/2025 9:28:30 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMP9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0520319	-.005939	.2398780	.0195982	-.000115	56.96949
Stddev	.0005628	.000692	.0012733	.0002308	.000442	.15195
%RSD	1.081692	11.65163	.5308192	1.177855	383.7894	.2667218
#1	.0516739	-.005585	.2396882	.0194674	.000392	57.00199
#2	.0517412	-.006736	.2387102	.0194625	-.000327	56.80392
#3	.0526807	-.005495	.2412355	.0198648	-.000411	57.10256

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7391994	.0036749	.0061143	321.8331	.1188277	.0815686
Stddev	.0032420	.0001688	.0001146	2.7882	.0001686	.0003390
%RSD	.4385896	4.592363	1.873664	.8663496	.1419045	.4156438
#1	.7409113	.0038697	.0059869	323.9199	.1190019	.0813906
#2	.7354602	.0035736	.0062089	322.9129	.1188162	.0813556
#3	.7412266	.0035813	.0061472	318.6665	.1186652	.0819596

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2577990	143.4021	7.961415	52.14850	.1608054	-.012752
Stddev	.0008582	.2760	.020505	.08790	.0007652	.000271
%RSD	.3328983	.1924318	.2575546	.1685638	.4758484	2.122538
#1	.2568331	143.4980	7.968676	52.18030	.1611209	-.012952
#2	.2580903	143.0910	7.938267	52.04912	.1599329	-.012860
#3	.2584737	143.6173	7.977301	52.21607	.1613624	-.012444

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4703305	.1205431	.5397756	6.249670	5.526151	.6117212
Stddev	.1352740	.0003684	.0017242	.081025	.016058	.0006626
%RSD	28.76148	.3056119	.3194348	1.296463	.2905849	.1083196
#1	.5707752	.1208619	.5409394	6.297418	5.530317	.6124135
#2	.5237044	.1201398	.5405927	6.156117	5.508421	.6116571
#3	.3165118	.1206277	.5377947	6.295474	5.539716	.6110929

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-04 Acquired: 1/12/2025 9:28:30 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMP9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040331	.7008813	F 13.68474	.0089381	.7398887	.0996044
Stddev	.0002907	.0094009	.01276	.0001587	.0005656	.0004525
%RSD	7.208395	1.341290	.0932365	1.775851	.0764470	.4542931
#1	.0038376	.7057381	13.68394	.0087644	.7398210	.0996242
#2	.0043672	.6900455	13.67239	.0089745	.7393599	.0991424
#3	.0038945	.7068604	13.69788	.0090755	.7404851	.1000467

Elem	Sr4077
Units	ppm
Avg	.3209351
Stddev	.0010009
%RSD	.3118592
#1	.3211134
#2	.3198570
#3	.3218348

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2832.763	68347.38	9990.809	3195.079	2996.035
Stddev	3.126	143.30	26.499	5.059	9.848
%RSD	.1103615	.2096647	.2652361	.1583277	.3286961
#1	2829.729	68196.21	9979.904	3198.268	2991.587
#2	2835.974	68481.23	9971.501	3189.246	3007.322
#3	2832.585	68364.71	10021.02	3197.722	2989.196

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV005 Acquired: 1/12/2025 9:32:36 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV005 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.662851**	**4.749611**	**24.19990**	**4.724651**	**4.640977**	**387.0872**
Stddev	.015507	.022147	.03901	.018258	.015789	2.9512
%RSD	.3325744	.4662932	.1611870	.3864458	.3402044	.7624232
#1	4.655195	4.746053	24.15945	4.713846	4.625890	384.9864
#2	4.680698	4.773321	24.23729	4.745732	4.657385	385.8139
#3	4.652660	4.729458	24.20297	4.714376	4.639656	390.4614

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.837464**	**.4964458**	**2.439759**	**389.2133**	**15.30580**	**2.455370**
Stddev	.033208	.0025852	.002468	3.3470	.02255	.004187
%RSD	.3375704	.5207459	.1011767	.8599520	.1473181	.1705065
#1	9.870384	.4969088	2.438988	386.6591	15.33177	2.450553
#2	9.803975	.4987683	2.442520	387.9785	15.29451	2.458131
#3	9.838034	.4936604	2.437767	393.0023	15.29113	2.457426

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.62146**	**385.7824**	**14.76869**	**241.5183**	**2.448023**	**1.232674**
Stddev	.03435	1.7975	.08620	1.3112	.003506	.001131
%RSD	.2349366	.4659259	.5836973	.5429076	.1432260	.0917725
#1	14.58448	384.6412	14.68438	240.4240	2.444037	1.233320
#2	14.62752	384.8518	14.76500	241.1594	2.450631	1.233335
#3	14.65238	387.8544	14.85668	242.9717	2.449402	1.231368

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**393.4649**	**2.386367**	**15.84227**	**148.0644**	**4.842117**	F **5.864249**
Stddev	1.9157	.002927	.04442	.8849	.013196	.018039
%RSD	.4868675	.1226626	.2803575	.5976491	.2725171	.3076084
#1	391.2667	2.383012	15.88571	147.4145	4.830458	5.863734
#2	394.7773	2.387691	15.84417	147.7065	4.856442	5.882540
#3	394.3508	2.388398	15.79694	149.0722	4.839451	5.846473

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV005 Acquired: 1/12/2025 9:32:36 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV005 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.678524**	**4.848580**	**4.818000**	**4.831707**	**4.826068**	**4.726515**
Stddev	.012325	.026569	.032245	.005482	.021043	.033494
%RSD	.2634330	.5479651	.6692517	.1134495	.4360281	.7086461
#1	4.668784	4.828300	4.781296	4.826879	4.801796	4.694250
#2	4.692380	4.878656	4.841769	4.837665	4.839173	4.724180
#3	4.674408	4.838786	4.830934	4.830575	4.837237	4.761116

Elem	Sr4077
Units	ppm
Avg	**4.995455**
Stddev	.039094
%RSD	.7825878
#1	4.960464
#2	5.037650
#3	4.988252

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2012.260**	**50208.59**	**7694.098**	**2333.296**	**2713.954**
Stddev	5.177	61.43	28.450	3.843	1.957
%RSD	.2572781	.1223558	.3697670	.1646966	.0721165
#1	2013.275	50200.74	7686.738	2330.061	2713.597
#2	2006.651	50273.57	7670.051	2332.282	2712.200
#3	2016.854	50151.46	7725.505	2337.544	2716.065

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB005 Acquired: 1/12/2025 9:36:54 Type: Unk
Method: EPA SFAM01.0(v33) 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	**-.000561**	**.0006543**	**.0006830**	**.0009270**	**-.001715**	**.0084538**	**-.002348**
Stddev	.000467	.0004316	.0003808	.0024757	.000311	.0147269	.000865
%RSD	83.11335	65.95830	55.75661	267.0661	18.11272	174.2033	36.85072
#1	-.000207	.0011523	.0002572	-.000602	-.001804	.0162088	-.002987
#2	-.001090	.0003895	.0009911	-.000400	-.001370	.0176827	-.002694
#3	-.000387	.0004211	.0008005	.003783	-.001972	-.008530	-.001363

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000116**	**.0001182**	**.0261370**	**.0003484**	**-.000002**	**-.000695**	**.0266423**
Stddev	.0001000	.0000359	.0030063	.0003938	.000201	.001586	.0065677
%RSD	859.9751	30.38711	11.50222	113.0254	10600.34	228.2643	24.65148
#1	.0001216	.0000971	.0275437	.0006304	.000087	-.001759	.0210894
#2	-.000013	.0001597	.0226852	-.000102	-.000232	.001128	.0249456
#3	-.000074	.0000979	.0281821	.000516	.000139	-.001453	.0338919

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006562**	**.0135835**	**-.000126**	**.0004103**	**-.030469**	**-.001923**	**.0006937**
Stddev	.0004038	.0181294	.000399	.0004256	.060753	.002170	.0002829
%RSD	61.54271	133.4663	317.1586	103.7461	199.3923	112.8394	40.77616
#1	.0011054	.0102334	.000324	.0006690	-.096821	-.004426	.0004316
#2	.0003232	.0331543	-.000438	-.000081	.022432	-.000563	.0009935
#3	.0005401	-.002637	-.000263	.000643	-.017018	-.000781	.0006559

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2071601**	**-.000936**	**.0016036**	**.0003847**	**-.001543**	**.0110889**	**-.000193**
Stddev	.0147878	.002252	.0014418	.0002454	.002334	.0088186	.000617
%RSD	7.138337	240.4977	89.91014	63.78665	151.2084	79.52675	318.8617
#1	.2118262	.000485	.0032265	.0004862	-.001450	.0009447	-.000024
#2	.2190520	.000238	.0011138	.0005631	-.003922	.0169290	-.000878
#3	.1906021	-.003532	.0004705	.0001049	.000742	.0153929	.000321

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB005 Acquired: 1/12/2025 9:36:54 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB005 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000038	.0002000	.0001673
Stddev	.000491	.0008103	.0000235
%RSD	1306.465	405.1621	14.06665
#1	-.000514	.0009634	.0001678
#2	-.000066	.0002869	.0001435
#3	.000467	-.000650	.0001905

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2516.869	59479.52	7938.621	2770.052	3583.788
Stddev	3.753	375.73	24.028	21.477	7.948
%RSD	.1491047	.6316910	.3026769	.7753251	.2217798
#1	2515.449	59773.22	7941.511	2782.901	3574.879
#2	2521.124	59056.13	7961.075	2745.258	3590.151
#3	2514.033	59609.22	7913.279	2781.998	3586.333

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-05 Acquired: 1/12/2025 9:41:03 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMQ7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1078922**	**-.000527**	**3.144226**	**.0339150**	**.0013058**	**61.27281**
Stddev	.0008663	.003969	.001271	.0009700	.0013712	.12041
%RSD	.8029073	753.2332	.0404237	2.860154	105.0057	.1965130
#1	.1079226	-.001796	3.143272	.0339337	.0028117	61.35590
#2	.1070111	-.003707	3.143738	.0329357	.0009765	61.32781
#3	.1087429	.003921	3.145669	.0348755	.0001293	61.13473

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.458930**	**.0052163**	**.0188279**	**50.27793**	**.1589431**	**.0844800**
Stddev	.006039	.0001190	.0001287	.11335	.0004871	.0004175
%RSD	.4139112	2.280773	.6836654	.2254434	.3064793	.4942487
#1	1.465274	.0053535	.0187531	50.39824	.1592895	.0840109
#2	1.453251	.0051549	.0187540	50.26239	.1591537	.0846184
#3	1.458266	.0051407	.0189765	50.17314	.1583861	.0848108

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5299156**	**142.9277**	**4.786946**	**17.19620**	**.2145786**	**-.012355**
Stddev	.0034897	.2439	.013272	.04885	.0005221	.000829
%RSD	.6585408	.1706233	.2772593	.2840601	.2433062	6.711366
#1	.5280352	143.1368	4.801021	17.25185	.2148203	-.011425
#2	.5277695	142.9866	4.774657	17.16040	.2139795	-.013015
#3	.5339423	142.6598	4.785162	17.17637	.2149361	-.012626

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5514885**	**.2138128**	**3.635867**	**9.315670**	**9.530117**	**.6145846**
Stddev	.1983180	.0015054	.003131	.016683	.012468	.0016434
%RSD	35.96050	.7040934	.0861043	.1790824	.1308310	.2673942
#1	.6912780	.2128855	3.638736	9.329486	9.529240	.6158633
#2	.6386740	.2130031	3.636336	9.320388	9.518110	.6151596
#3	.3245135	.2155498	3.632528	9.297137	9.543001	.6127310

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-05 Acquired: 1/12/2025 9:41:03 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMQ7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0100156	4.392220	F 14.74518	.1488250	.9014612	.0875295
Stddev	.0002114	.014594	.05966	.0013456	.0010734	.0006145
%RSD	2.110668	.3322756	.4046369	.9041603	.1190712	.7020194
#1	.0101473	4.376916	14.81193	.1489086	.9016866	.0880510
#2	.0097717	4.393761	14.69703	.1501269	.9002930	.0876854
#3	.0101277	4.405982	14.72659	.1474395	.9024040	.0868521

Elem	Sr4077
Units	ppm
Avg	.1898913
Stddev	.0005451
%RSD	.2870666
#1	.1902662
#2	.1901417
#3	.1892660

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2874.668	69390.09	9602.937	3179.574	3310.198
Stddev	3.010	118.33	1.154	3.958	3.208
%RSD	.1047228	.1705333	.0120223	.1244972	.0969272
#1	2877.370	69326.29	9604.000	3180.222	3313.747
#2	2875.211	69317.34	9603.103	3183.169	3309.344
#3	2871.423	69526.63	9601.709	3175.332	3307.502

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-06 Acquired: 1/12/2025 9:44:57 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMQ8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1064055**	**-.000504**	**3.124103**	**.0402000**	**.0032809**	**52.89893**
Stddev	.0033601	.002396	.007295	.0032038	.0010505	.31557
%RSD	3.157855	475.5337	.2335095	7.969764	32.01724	.5965494
#1	.1025256	.002255	3.127780	.0381160	.0022750	52.58601
#2	.1083597	-.002060	3.115701	.0385947	.0031970	53.21708
#3	.1083313	-.001707	3.128829	.0438891	.0043709	52.89369

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.419679**	**.0042428**	**.0192058**	**47.02665**	**.1540379**	**.0694393**
Stddev	.005271	.0002087	.0001292	.19864	.0005897	.0001574
%RSD	.3712583	4.919005	.6726500	.4223894	.3828391	.2267039
#1	1.415610	.0042102	.0192975	46.88948	.1547154	.0693208
#2	1.425633	.0040522	.0190581	47.25444	.1537589	.0696179
#3	1.417793	.0044658	.0192618	46.93603	.1536394	.0693793

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6008528**	**176.2553**	**4.583189**	**15.33011**	**.1936629**	**-.014163**
Stddev	.0015802	1.1754	.012759	.09470	.0003213	.000666
%RSD	.2629870	.6668637	.2783874	.6177270	.1659094	4.704897
#1	.5990326	175.1611	4.576898	15.25941	.1939838	-.014785
#2	.6018719	177.4978	4.597871	15.43770	.1933412	-.014243
#3	.6016541	176.1071	4.574796	15.29321	.1936638	-.013460

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4195252**	**.1959486**	**3.738504**	**6.547191**	**8.799607**	**.7407606**
Stddev	.3227557	.0016351	.003492	.059970	.039540	.0080288
%RSD	76.93358	.8344297	.0933989	.9159655	.4493389	1.083853
#1	.4259145	.1950578	3.735747	6.481031	8.831298	.7329117
#2	.7390388	.1978357	3.742430	6.597977	8.755298	.7489578
#3	.0936222	.1949525	3.737336	6.562567	8.812225	.7404122

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-06 Acquired: 1/12/2025 9:44:57 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMQ8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0094734	3.303799	F 14.66070	.1738472	.8266819	.0711335
Stddev	.0003948	.005219	.04856	.0004902	.0016369	.0003664
%RSD	4.167242	.1579652	.3312422	.2819613	.1980068	.5151516
#1	.0098292	3.299187	14.70020	.1741089	.8282530	.0715560
#2	.0095423	3.302745	14.60648	.1741511	.8249863	.0709035
#3	.0090487	3.309464	14.67541	.1732818	.8268064	.0709409

Elem	Sr4077
Units	ppm
Avg	.1719513
Stddev	.0014568
%RSD	.8471930
#1	.1704908
#2	.1734043
#3	.1719586

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2802.159	65764.95	9233.574	3070.471	3405.615
Stddev	10.063	150.62	51.885	.355	13.736
%RSD	.3591228	.2290332	.5619188	.0115645	.4033426
#1	2794.517	65751.66	9177.814	3070.783	3395.987
#2	2813.561	65621.41	9280.434	3070.546	3421.345
#3	2798.398	65921.78	9242.473	3070.084	3399.514

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-07 Acquired: 1/12/2025 9:48:52 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMQ9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1228936**	**.0001050**	**6.637996**	**.0380718**	**-.000018**	**60.68898**
Stddev	.0022158	.0014985	.041070	.0012237	.000873	.28459
%RSD	1.802991	1426.863	.6187036	3.214280	4804.675	.4689381
#1	.1254058	.0006520	6.620127	.0389804	-.000571	60.95036
#2	.1212176	.0012532	6.608888	.0366803	-.000471	60.38579
#3	.1220574	-.001590	6.684973	.0385546	.000988	60.73079

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.503317**	**.0046221**	**.0199375**	**36.34821**	**.1519136**	**.0780980**
Stddev	.008346	.0000876	.0002050	.09167	.0012732	.0007026
%RSD	.5552032	1.895989	1.028382	.2521930	.8380886	.8996329
#1	1.512170	.0045497	.0199584	36.43339	.1504656	.0775824
#2	1.495592	.0047195	.0197228	36.25120	.1524172	.0778133
#3	1.502189	.0045972	.0201312	36.36002	.1528578	.0788983

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5583308**	**153.0915**	**5.571929**	**15.39215**	**.1873002**	**-.010950**
Stddev	.0003403	.4893	.016818	.07602	.0009562	.000070
%RSD	.0609502	.3196018	.3018324	.4939169	.5104990	.6423790
#1	.5583294	153.5548	5.583121	15.46052	.1874473	-.010965
#2	.5586718	152.5798	5.552589	15.31028	.1862790	-.010873
#3	.5579912	153.1399	5.580077	15.40566	.1881743	-.011011

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4663771**	**.2003037**	**3.308819**	**7.440567**	**8.486351**	**.6479221**
Stddev	.1434746	.0014363	.005329	.052947	.057070	.0033817
%RSD	30.76364	.7170596	.1610603	.7116056	.6724866	.5219337
#1	.4385023	.2001673	3.312174	7.482200	8.484145	.6512106
#2	.6217436	.2018034	3.302674	7.380976	8.430416	.6444543
#3	.3388853	.1989405	3.311609	7.458525	8.544491	.6481016

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-07 Acquired: 1/12/2025 9:48:52 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMQ9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0082062	2.770287	F 14.25248	.1707618	.8597753	.0823427
Stddev	.0004605	.016925	.10553	.0009355	.0027175	.0002207
%RSD	5.611429	.6109577	.7404104	.5478574	.3160683	.2680765
#1	.0083870	2.759442	14.13148	.1696837	.8566698	.0824640
#2	.0076828	2.761630	14.30058	.1713597	.8617175	.0824762
#3	.0085489	2.789790	14.32540	.1712421	.8609385	.0820879

Elem	Sr4077
Units	ppm
Avg	.1671526
Stddev	.0011145
%RSD	.6667701
#1	.1682228
#2	.1659985
#3	.1672364

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2823.030	67135.44	9601.874	3175.588	3318.847
Stddev	7.070	231.06	102.757	6.051	16.568
%RSD	.2504514	.3441660	1.070174	.1905365	.4991989
#1	2824.221	67352.65	9720.481	3169.413	3328.757
#2	2829.429	67161.01	9539.710	3175.845	3328.063
#3	2815.440	66892.66	9545.430	3181.506	3299.721

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-08 Acquired: 1/12/2025 9:52:46 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMQ9D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1180950**	**-.000467**	**6.443665**	**.0342831**	**-.000211**	**59.89709**
Stddev	.0010063	.002123	.009525	.0023179	.002761	.36850
%RSD	.8521101	455.1100	.1478119	6.760908	1310.936	.6152148
#1	.1192153	-.002552	6.437283	.0335604	.001702	59.49342
#2	.1172676	.001692	6.454612	.0368762	.001042	59.98239
#3	.1178022	-.000540	6.439098	.0324127	-.003376	60.21545

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.477807**	**.0046363**	**.0193010**	**35.88248**	**.1497622**	**.0760826**
Stddev	.007196	.0000317	.0000892	.17004	.0002249	.0002819
%RSD	.4869109	.6843492	.4619999	.4738913	.1501647	.3704958
#1	1.469502	.0046308	.0193196	35.68759	.1497413	.0758378
#2	1.481762	.0046704	.0193794	35.95930	.1499968	.0760192
#3	1.482158	.0046076	.0192040	36.00057	.1495485	.0763908

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5520821**	**151.1698**	**5.464185**	**15.12973**	**.1817090**	**-.010773**
Stddev	.0014035	1.0003	.025826	.05882	.0006422	.000187
%RSD	.2542248	.6616886	.4726486	.3887826	.3534054	1.739516
#1	.5504615	150.0842	5.434762	15.06182	.1812242	-.010810
#2	.5529053	151.3711	5.474691	15.16486	.1814656	-.010939
#3	.5528795	152.0541	5.483103	15.16250	.1824373	-.010569

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5386651**	**.1984908**	**3.283502**	**7.310928**	**8.100015**	**.6390123**
Stddev	.2542901	.0009298	.001248	.093221	.008929	.0039334
%RSD	47.20745	.4684285	.0380205	1.275090	.1102287	.6155443
#1	.5714217	.1990226	3.282113	7.206119	8.107564	.6346224
#2	.2695840	.1990326	3.283859	7.384582	8.102322	.6401981
#3	.7749896	.1974172	3.284532	7.342081	8.090160	.6422164

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-08 Acquired: 1/12/2025 9:52:46 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMQ9D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0082612	2.629925	F 13.97453	.1647383	.8462674	.0795678
Stddev	.0002329	.004128	.02369	.0008900	.0019303	.0010565
%RSD	2.819035	.1569507	.1695395	.5402293	.2280927	1.327814
#1	.0082638	2.625572	13.94801	.1653377	.8441077	.0787387
#2	.0080271	2.633782	13.99361	.1637157	.8468702	.0792075
#3	.0084928	2.630421	13.98196	.1651615	.8478244	.0807574

Elem	Sr4077
Units	ppm
Avg	.1669707
Stddev	.0011203
%RSD	.6709712
#1	.1657978
#2	.1670845
#3	.1680298

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2892.500	67328.07	9605.141	3182.515	3427.969
Stddev	2.738	98.26	37.259	5.271	3.342
%RSD	.0946449	.1459382	.3879079	.1656255	.0975015
#1	2895.547	67409.14	9563.774	3180.040	3424.616
#2	2891.704	67356.27	9615.584	3178.936	3431.301
#3	2890.248	67218.79	9636.064	3188.568	3427.991

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-07LX5 Acquired: 1/12/2025 9:56:40 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMQ9L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0238064	.0004161	1.323620	.0083241	.0014610	13.14498	.3170880
Stddev	.0012986	.0007690	.008065	.0012511	.0017607	.02993	.0026212
%RSD	5.454997	184.8231	.6093490	15.02967	120.5166	.2276697	.8266484
#1	.0242496	-.000310	1.314319	.0069657	.0034941	13.16639	.3173022
#2	.0248254	.000336	1.328681	.0094290	.0004477	13.11078	.3143663
#3	.0223442	.001222	1.327860	.0085776	.0004412	13.15776	.3195956

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011406	.0036655	7.988625	.0333043	.0150818	.1257584	33.80461
Stddev	.0000358	.0000522	.025983	.0000700	.0001989	.0019956	.06303
%RSD	3.134364	1.423578	.3252556	.2102991	1.319036	1.586851	.1864631
#1	.0011059	.0036784	7.983997	.0332901	.0148710	.1280164	33.78531
#2	.0011773	.0037100	7.965266	.0333804	.0151080	.1242312	33.75348
#3	.0011387	.0036081	8.016611	.0332425	.0152663	.1250276	33.87504

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.224208	3.365750	.0362060	-.002434	.1618173	.0438024	.7551463
Stddev	.001760	.006328	.0003963	.000161	.2707871	.0039493	.0026436
%RSD	.1437879	.1880094	1.094526	6.601111	167.3413	9.016087	.3500807
#1	1.225981	3.360471	.0357594	-.002262	-.055106	.0463846	.7578149
#2	1.224183	3.372765	.0363426	-.002581	.075256	.0392562	.7550959
#3	1.222461	3.364016	.0365158	-.002458	.465302	.0457665	.7525283

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.764935	1.618993	.1403198	.0018930	.5173568	3.173908	.0320682
Stddev	.040496	.008906	.0003466	.0004245	.0035516	.007107	.0006603
%RSD	2.294461	.5501078	.2469786	22.42644	.6864907	.2239052	2.059003
#1	1.770790	1.609989	.1399638	.0015225	.5135658	3.179194	.0319503
#2	1.721831	1.627798	.1406561	.0018002	.5206070	3.165829	.0327795
#3	1.802185	1.619191	.1403393	.0023562	.5178976	3.176701	.0314748

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-07LX5 Acquired: 1/12/2025 9:56:40 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMQ9L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1910214	.0174516	.0368480
Stddev	.0011877	.0006244	.0001682
%RSD	.6217854	3.578065	.4564418
#1	.1910201	.0167482	.0368864
#2	.1922098	.0176661	.0366639
#3	.1898343	.0179405	.0369936

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2610.237	60103.12	8410.628	2865.282	3532.718
Stddev	17.064	197.58	67.496	15.705	21.475
%RSD	.6537163	.3287408	.8025122	.5481306	.6078983
#1	2624.172	59887.24	8352.137	2852.143	3552.299
#2	2591.206	60147.15	8395.267	2861.026	3509.751
#3	2615.333	60274.98	8484.481	2882.677	3536.105

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-09 Acquired: 1/12/2025 10:00:42 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMQ9S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1810301**	**.0993652**	**6.474095**	**.1806235**	**.1459430**	**62.77091**
Stddev	.0030855	.0024398	.004454	.0039600	.0009022	.11945
%RSD	1.704427	2.455378	.0687937	2.192386	.6181516	.1902993
#1	.1819943	.1021705	6.470182	.1845956	.1461968	62.90088
#2	.1775777	.0977385	6.478942	.1805990	.1449412	62.74590
#3	.1835185	.0981866	6.473161	.1766758	.1466911	62.66594

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.697438**	**.0903521**	**.1156782**	**35.87327**	**.5197549**	**1.046567**
Stddev	.060829	.0007808	.0002792	.16643	.0003449	.001325
%RSD	1.294947	.8641902	.2413365	.4639418	.0663628	.1265850
#1	4.767266	.0903182	.1156475	36.05963	.5196734	1.045136
#2	4.655945	.0895888	.1159714	35.82073	.5194580	1.047751
#3	4.669104	.0911493	.1154156	35.73945	.5201333	1.046814

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9643542**	**152.6060**	**6.299122**	**15.14014**	**1.156088**	**.0535908**
Stddev	.0069640	.3931	.034800	.02297	.001435	.0006066
%RSD	.7221430	.2575835	.5524627	.1517300	.1241178	1.131974
#1	.9662633	153.0567	6.339305	15.12553	1.155038	.0531970
#2	.9566348	152.4276	6.278944	15.12827	1.157723	.0532861
#3	.9701646	152.3338	6.279115	15.16662	1.155502	.0542894

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4453490**	**1.063768**	**4.168007**	**7.330297**	**8.157977**	**.6478323**
Stddev	.0192081	.008955	.008636	.038585	.013841	.0025973
%RSD	4.313052	.8417952	.2071988	.5263830	.1696580	.4009195
#1	.4327575	1.064323	4.168006	7.332347	8.146284	.6506607
#2	.4358320	1.054550	4.159371	7.290728	8.173258	.6472820
#3	.4674575	1.072433	4.176643	7.367817	8.154390	.6455544

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-09 Acquired: 1/12/2025 10:00:42 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMQ9S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0078316	2.652685	F 13.99205	.1648143	.8445050	.0804775
Stddev	.0003766	.001008	.15628	.0005865	.0076771	.0010197
%RSD	4.808364	.0380071	1.116889	.3558552	.9090639	1.267075
#1	.0077684	2.651713	14.03770	.1650392	.8490308	.0794290
#2	.0082358	2.653726	13.81803	.1652551	.8356409	.0805379
#3	.0074906	2.652615	14.12041	.1641487	.8488433	.0814657

Elem	Sr4077
Units	ppm
Avg	.1649962
Stddev	.0002065
%RSD	.1251686
#1	.1652136
#2	.1649724
#3	.1648026

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2866.825	67226.06	9658.428	3185.042	3390.322
Stddev	6.879	64.52	90.898	8.479	7.226
%RSD	.2399533	.0959698	.9411221	.2662280	.2131292
#1	2868.007	67280.16	9676.102	3192.945	3393.961
#2	2859.432	67154.65	9739.190	3186.095	3382.000
#3	2873.037	67243.36	9559.991	3176.085	3395.004

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-10 Acquired: 1/12/2025 10:04:39 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMR0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0883065**	**-.000342**	**1.927181**	**.0307273**	**-.001803**	**57.32016**
Stddev	.0018614	.001700	.009712	.0033765	.001464	.15494
%RSD	2.107906	497.5422	.5039676	10.98857	81.20835	.2702998
#1	.0884928	-.000224	1.919550	.0297116	-.003493	57.29330
#2	.0900678	.001296	1.923879	.0344951	-.000919	57.18041
#3	.0863590	-.002097	1.938114	.0279753	-.000997	57.48677

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.071444**	**.0041190**	**.0150220**	**38.52075**	**.1219444**	**.0746359**
Stddev	.002244	.0000786	.0000649	.16466	.0007770	.0003622
%RSD	.2093967	1.907437	.4321217	.4274575	.6371746	.4852397
#1	1.071920	.0041488	.0150871	38.57501	.1226440	.0744311
#2	1.069000	.0040298	.0149573	38.33580	.1220811	.0750540
#3	1.073411	.0041782	.0150216	38.65143	.1211081	.0744225

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3655607**	**129.6060**	**5.544762**	**15.21294**	**.1504544**	**-.008770**
Stddev	.0016726	.3500	.009423	.05409	.0006577	.000467
%RSD	.4575407	.2700363	.1699487	.3555405	.4371703	5.323422
#1	.3642060	129.6071	5.544524	15.20909	.1498442	-.008747
#2	.3650459	129.2554	5.535460	15.16088	.1503679	-.008315
#3	.3674302	129.9554	5.554302	15.26885	.1511511	-.009248

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4049080**	**.1522255**	**1.883382**	**7.830561**	**6.873986**	**.5520362**
Stddev	.0518899	.0003249	.007666	.039445	.012923	.0019360
%RSD	12.81524	.2134563	.4070374	.5037310	.1879992	.3506935
#1	.4215673	.1523827	1.889276	7.845890	6.882260	.5510523
#2	.3467344	.1518519	1.886154	7.785752	6.859094	.5507898
#3	.4464223	.1524419	1.874715	7.860040	6.880603	.5542665

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-10 Acquired: 1/12/2025 10:04:39 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMR0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071035	2.237787	F 13.80031	.1692186	.8265828	.0691464
Stddev	.0002385	.013793	.00335	.0006362	.0010062	.0002856
%RSD	3.356888	.6163874	.0242666	.3759728	.1217251	.4129926
#1	.0069340	2.249434	13.80348	.1697108	.8260147	.0694745
#2	.0073761	2.222555	13.80066	.1685002	.8277445	.0690108
#3	.0070003	2.241371	13.79681	.1694448	.8259892	.0689539

Elem	Sr4077
Units	ppm
Avg	.1431060
Stddev	.0003835
%RSD	.2679995
#1	.1428399
#2	.1429326
#3	.1435456

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2864.175	66614.70	9630.782	3160.412	3398.978
Stddev	5.311	275.72	24.678	11.817	10.192
%RSD	.1854221	.4139100	.2562401	.3739081	.2998451
#1	2868.315	66452.08	9606.719	3146.946	3402.574
#2	2866.021	66933.06	9656.032	3165.241	3406.884
#3	2858.187	66458.97	9629.595	3169.050	3387.476

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-11 Acquired: 1/12/2025 10:08:34 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMR1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0652100**	**-.002140**	**.9348173**	**.0294708**	**-.001836**	**57.45294**
Stddev	.0001862	.000372	.0017409	.0011994	.002187	.06996
%RSD	.2855267	17.35996	.1862246	4.069613	119.1298	.1217628
#1	.0649950	-.002429	.9365412	.0289288	.000489	57.38430
#2	.0653186	-.001721	.9330599	.0286382	-.003852	57.45038
#3	.0653164	-.002270	.9348509	.0308455	-.002144	57.52414

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7204968**	**.0038987**	**.0088061**	**22.54629**	**.1066596**	**.0665828**
Stddev	.0010651	.0000133	.0000487	.00582	.0007637	.0002666
%RSD	.1478282	.3412410	.5529584	.0258194	.7160101	.4003766
#1	.7208494	.0039099	.0088180	22.54522	.1075357	.0667029
#2	.7213408	.0038840	.0087525	22.55258	.1061347	.0662773
#3	.7193001	.0039022	.0088477	22.54108	.1063084	.0667683

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2218291**	**131.8715**	**5.131508**	**16.95646**	**.1253722**	**-.010522**
Stddev	.0014054	.1149	.016738	.03168	.0005203	.000267
%RSD	.6335311	.0871027	.3261862	.1868056	.4149847	2.539959
#1	.2230563	131.7429	5.127070	16.99064	.1258888	-.010800
#2	.2202960	131.9075	5.150018	16.95064	.1248484	-.010267
#3	.2221351	131.9640	5.117436	16.92809	.1253793	-.010499

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3617166**	**.1399822**	**1.103801**	**5.533727**	**5.145024**	**.5502706**
Stddev	.2623064	.0011595	.001456	.006391	.018571	.0013294
%RSD	72.51710	.8282955	.1318707	.1154849	.3609592	.2415807
#1	.0826337	.1403615	1.105359	5.540808	5.146786	.5489809
#2	.3993307	.1409045	1.102476	5.531983	5.125634	.5516363
#3	.6031855	.1386806	1.103567	5.528389	5.162651	.5501946

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-11 Acquired: 1/12/2025 10:08:34 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMR1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0054164	1.192556	F 13.62041	.0708837	.7452394	.0636990
Stddev	.0002788	.002225	.05075	.0012923	.0010519	.0006172
%RSD	5.148250	.1865869	.3726057	1.823149	.1411444	.9689950
#1	.0056576	1.194744	13.56246	.0708553	.7442576	.0638200
#2	.0054807	1.190296	13.64183	.0696057	.7463495	.0642467
#3	.0051111	1.192628	13.65693	.0721899	.7451112	.0630302

Elem	Sr4077
Units	ppm
Avg	.0953793
Stddev	.0000739
%RSD	.0774317
#1	.0953626
#2	.0953152
#3	.0954601

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3007.663	70507.56	10035.28	3329.143	3460.387
Stddev	7.592	64.30	14.75	4.274	6.919
%RSD	.2524312	.0911919	.1469654	.1283945	.1999583
#1	3010.066	70560.67	10038.09	3329.687	3457.831
#2	3013.764	70525.94	10048.42	3324.622	3468.221
#3	2999.160	70436.08	10019.33	3333.119	3455.109

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-12 Acquired: 1/12/2025 10:12:32 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMR3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0510607**	**-.005940**	**.1384324**	**.0357234**	**.0041507**	**86.12012**
Stddev	.0005267	.000432	.0005748	.0018881	.0012165	.21015
%RSD	1.031489	7.276575	.4152047	5.285277	29.30892	.2440219
#1	.0516542	-.005863	.1384126	.0355929	.0047328	85.87796
#2	.0506488	-.005552	.1390168	.0376734	.0049668	86.25477
#3	.0508791	-.006406	.1378678	.0339040	.0027525	86.22762

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8758273**	**.0041525**	**.0080159**	**17.02281**	**.1473464**	**.1010318**
Stddev	.0031679	.0000407	.0000672	.01594	.0004088	.0006191
%RSD	.3617052	.9805486	.8378635	.0936682	.2774393	.6127498
#1	.8737766	.0041371	.0079427	17.00653	.1477921	.1004290
#2	.8742294	.0041217	.0080306	17.03840	.1472582	.1010004
#3	.8794760	.0041987	.0080746	17.02350	.1469889	.1016660

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1775620**	**199.0737**	**9.467278**	**38.37029**	**.1821694**	**-.017674**
Stddev	.0006950	.1952	.020190	.03336	.0010936	.000389
%RSD	.3913982	.0980497	.2132656	.0869425	.6003353	2.200833
#1	.1767616	198.8516	9.461011	38.34708	.1810712	-.017623
#2	.1779120	199.1519	9.450964	38.35527	.1821786	-.017313
#3	.1780124	199.2177	9.489859	38.40852	.1832584	-.018086

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5616840**	**.2325275**	**.6209989**	**28.20171**	**4.321632**	**.8182132**
Stddev	.0828323	.0016390	.0010128	.06574	.031566	.0012752
%RSD	14.74713	.7048663	.1630926	.2330976	.7304238	.1558533
#1	.5311603	.2316059	.6214634	28.12597	4.304392	.8183396
#2	.4984448	.2344198	.6216962	28.24388	4.302440	.8194205
#3	.6554469	.2315567	.6198372	28.23529	4.358064	.8168795

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-12 Acquired: 1/12/2025 10:12:32 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMR3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023643	.6887896	F 14.94134	.0370548	7.842416	.1123136
Stddev	.0002980	.0102757	.04283	.0010822	.014139	.0007420
%RSD	12.60435	1.491853	.2866756	2.920479	.1802869	.6606138
#1	.0027066	.6896760	14.95545	.0363588	7.840132	.1117596
#2	.0021626	.6780994	14.89324	.0383016	7.829558	.1120248
#3	.0022237	.6985934	14.97535	.0365040	7.857557	.1131566

Elem	Sr4077
Units	ppm
Avg	.0604024
Stddev	.0001357
%RSD	.2246115
#1	.0602951
#2	.0605549
#3	.0603572

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3341.183	78749.87	11271.36	3734.771	3212.140
Stddev	13.014	176.12	31.28	3.709	15.778
%RSD	.3894880	.2236469	.2775510	.0992995	.4911903
#1	3347.981	78624.78	11238.00	3738.264	3219.649
#2	3349.391	78673.55	11276.04	3735.170	3222.760
#3	3326.179	78951.28	11300.04	3730.879	3194.010

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-13 Acquired: 1/12/2025 10:16:30 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMR2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0453332**	**-.006902**	**.1994777**	**.0276869**	**-.004379**	**63.54127**
Stddev	.0009914	.000728	.0014516	.0014760	.001117	.21111
%RSD	2.186816	10.54239	.7277069	5.331196	25.50014	.3322342
#1	.0456049	-.007619	.1999079	.0260067	-.005663	63.41741
#2	.0461603	-.006923	.1978597	.0282796	-.003840	63.78503
#3	.0442343	-.006165	.2006656	.0287745	-.003634	63.42138

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7897110**	**.0045871**	**.0090970**	**27.31437**	**.1287538**	**.0904412**
Stddev	.0023508	.0001360	.0002057	.07684	.0005321	.0007192
%RSD	.2976747	2.964558	2.261584	.2813034	.4132902	.7952155
#1	.7891032	.0047227	.0092783	27.27629	.1291616	.0912241
#2	.7923059	.0045879	.0088734	27.40281	.1289479	.0898098
#3	.7877237	.0044507	.0091393	27.26402	.1281519	.0902897

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1767685**	**159.5666**	**7.542789**	**23.74081**	**.1993766**	**-.014149**
Stddev	.0009137	.5611	.016012	.06588	.0006085	.000400
%RSD	.5169099	.3516305	.2122797	.2774764	.3052029	2.829708
#1	.1771674	159.1181	7.551988	23.71616	.2000204	-.014478
#2	.1774150	160.1958	7.552080	23.81546	.1988109	-.014265
#3	.1757232	159.3859	7.524301	23.69082	.1992984	-.013703

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6005316**	**.1459206**	**.4781206**	**8.598947**	**9.456821**	**.6674381**
Stddev	.1918523	.0016497	.0016294	.064560	.063698	.0032703
%RSD	31.94707	1.130539	.3407900	.7507885	.6735707	.4899731
#1	.5081469	.1442543	.4793156	8.551906	9.511586	.6644801
#2	.4723505	.1475531	.4787817	8.672550	9.386917	.6709499
#3	.8210973	.1459544	.4762646	8.572383	9.471960	.6668843

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-13 Acquired: 1/12/2025 10:16:30 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMR2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020744	.7368586	F 15.41526	.0137742	1.214128	.1054614
Stddev	.0001212	.0054439	.10506	.0008426	.004066	.0008323
%RSD	5.840487	.7387911	.6815083	6.117538	.3349079	.7892311
#1	.0021826	.7430003	15.53593	.0147024	1.218762	.1049765
#2	.0020970	.7326278	15.34418	.0130572	1.211156	.1064225
#3	.0019435	.7349478	15.36566	.0135630	1.212465	.1049852

Elem	Sr4077
Units	ppm
Avg	.0949446
Stddev	.0003604
%RSD	.3796138
#1	.0946301
#2	.0953379
#3	.0948657

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3683.883	86251.47	12058.04	4019.436	3359.510
Stddev	6.553	435.42	102.90	9.761	9.975
%RSD	.1778765	.5048236	.8533538	.2428447	.2969227
#1	3676.790	85819.95	11940.09	4009.924	3350.890
#2	3689.712	86243.76	12104.57	4018.958	3370.436
#3	3685.148	86690.69	12129.45	4029.428	3357.203

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-14 Acquired: 1/12/2025 10:20:26 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMS1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0861509**	**-.001568**	**2.285662**	**.0291030**	**.0005469**	**54.28896**
Stddev	.0014173	.002650	.000455	.0004680	.0014231	.25015
%RSD	1.645197	169.0630	.0199134	1.608083	260.1907	.4607744
#1	.0846177	.001322	2.286164	.0285828	-.001000	54.00037
#2	.0864216	-.002141	2.285546	.0294898	.000840	54.44397
#3	.0874133	-.003884	2.285277	.0292365	.001800	54.42253

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.035244**	**.0041934**	**.0091612**	**28.47889**	**.1526296**	**.0703576**
Stddev	.003016	.0001144	.0000492	.11922	.0011522	.0004684
%RSD	.2913702	2.726894	.5373169	.4186381	.7548670	.6657334
#1	1.032906	.0043135	.0091645	28.34123	.1519501	.0702302
#2	1.038648	.0041806	.0092087	28.54929	.1519788	.0699662
#3	1.034177	.0040859	.0091104	28.54614	.1539599	.0708766

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4029246**	**125.2023**	**4.855322**	**12.86775**	**.1386298**	**-.009527**
Stddev	.0029060	.7036	.019389	.08103	.0011930	.000325
%RSD	.7212377	.5619670	.3993390	.6297476	.8605755	3.406195
#1	.3996301	124.3918	4.832961	12.79729	.1372798	-.009894
#2	.4040198	125.5590	4.867462	12.84967	.1390674	-.009277
#3	.4051239	125.6561	4.865544	12.95630	.1395422	-.009410

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3608392**	**.1488538**	**1.663582**	**8.498271**	**7.609637**	**.5239440**
Stddev	.1486904	.0011188	.006722	.061996	.011085	.0040396
%RSD	41.20684	.7515977	.4040670	.7295083	.1456751	.7710068
#1	.2513090	.1490679	1.661236	8.429875	7.613729	.5192810
#2	.5301084	.1498500	1.658346	8.550771	7.618094	.5261703
#3	.3011001	.1476434	1.671162	8.514169	7.597087	.5263807

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-14 Acquired: 1/12/2025 10:20:26 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMS1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0083338	3.364880	F 15.06136	.0958511	.6738394	.0539224
Stddev	.0001232	.009834	.04017	.0011778	.0017482	.0016529
%RSD	1.477843	.2922575	.2666992	1.228730	.2594418	3.065282
#1	.0083521	3.363825	15.09985	.0952502	.6726297	.0541492
#2	.0084467	3.375199	15.06452	.0950949	.6758438	.0521679
#3	.0082025	3.355616	15.01970	.0972081	.6730447	.0554502

Elem	Sr4077
Units	ppm
Avg	.0968650
Stddev	.0007066
%RSD	.7294742
#1	.0960499
#2	.0972395
#3	.0973054

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2834.943	69783.06	9321.879	3239.139	3407.401
Stddev	4.825	260.52	33.979	7.255	5.867
%RSD	.1702133	.3733310	.3645077	.2239803	.1721963
#1	2839.511	69950.30	9290.553	3242.379	3413.368
#2	2829.896	69915.99	9358.001	3244.210	3407.199
#3	2835.421	69482.89	9317.083	3230.829	3401.638

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-15 Acquired: 1/12/2025 10:24:22 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMS2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0930236**	**-.001369**	**5.283892**	**.0302658**	**.0002608**	**62.63182**
Stddev	.0004601	.001011	.006509	.0017486	.0017820	.17386
%RSD	.4946446	73.81427	.1231829	5.777410	683.4175	.2775893
#1	.0931473	-.001221	5.289435	.0283177	.0014252	62.80977
#2	.0925143	-.002445	5.276725	.0307804	-.001791	62.62334
#3	.0934092	-.000441	5.285517	.0316994	.001148	62.46236

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.337489**	**.0046197**	**.0106528**	**36.93581**	**.1585026**	**.0769172**
Stddev	.011265	.0000581	.0001034	.12983	.0009038	.0002657
%RSD	.4819407	1.257548	.9704011	.3515014	.5701881	.3454043
#1	2.350382	.0045527	.0106506	37.03731	.1574725	.0771127
#2	2.332536	.0046534	.0105506	36.98061	.1591627	.0770241
#3	2.329548	.0046532	.0107573	36.78951	.1588725	.0766147

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4134178**	**146.6073**	**5.799491**	**17.47605**	**.1594090**	**-.010489**
Stddev	.0034411	.4316	.017455	.03143	.0002041	.000025
%RSD	.8323582	.2944198	.3009696	.1798438	.1280161	.2369227
#1	.4156188	146.9321	5.816804	17.45277	.1596182	-.010501
#2	.4094523	146.7723	5.799772	17.51180	.1593984	-.010461
#3	.4151822	146.1175	5.781898	17.46359	.1592105	-.010507

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3226487**	**.1673854**	**2.237585**	**8.329525**	**8.030625**	**.6222300**
Stddev	.1440921	.0010880	.006215	.103281	.020549	.0017265
%RSD	44.65913	.6500183	.2777363	1.239934	.2558878	.2774693
#1	.4711099	.1686417	2.244740	8.346278	8.053991	.6233269
#2	.3134719	.1667456	2.234480	8.423405	8.015367	.6231233
#3	.1833644	.1667690	2.233534	8.218892	8.022516	.6202399

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-15 Acquired: 1/12/2025 10:24:22 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMS2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0059276	3.087821	F 14.95568	.0794660	.7455505	.0624977
Stddev	.0002639	.010520	.01511	.0011302	.0014696	.0010520
%RSD	4.452515	.3406916	.1010148	1.422268	.1971123	1.683260
#1	.0056268	3.086985	14.94979	.0804658	.7471398	.0624708
#2	.0060351	3.077743	14.94441	.0782397	.7442409	.0635629
#3	.0061208	3.098734	14.97285	.0796925	.7452707	.0614594

Elem	Sr4077
Units	ppm
Avg	.1353124
Stddev	.0004847
%RSD	.3582445
#1	.1356277
#2	.1355553
#3	.1347542

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2877.490	66485.49	9463.697	3160.653	3440.323
Stddev	4.388	213.59	8.387	11.364	4.092
%RSD	.1524839	.3212546	.0886178	.3595421	.1189490
#1	2882.314	66381.68	9473.246	3147.664	3444.944
#2	2876.420	66343.66	9460.318	3165.535	3437.157
#3	2873.737	66731.14	9457.528	3168.760	3438.868

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-16 Acquired: 1/12/2025 10:28:17 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMS3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0809102**	**-.000942**	**1.287517**	**.0298990**	**.0001021**	**64.66066**
Stddev	.0017422	.001707	.003938	.0027219	.0025334	.15483
%RSD	2.153247	181.0746	.3058404	9.103649	2480.413	.2394517
#1	.0789354	.001028	1.283952	.0324060	-.000809	64.53491
#2	.0822298	-.001931	1.291743	.0302872	-.001850	64.83359
#3	.0815655	-.001924	1.286854	.0270039	.002965	64.61348

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9098086**	**.0042251**	**.0082815**	**25.49668**	**.1299882**	**.0757049**
Stddev	.0038231	.0000227	.0000512	.04076	.0008425	.0002752
%RSD	.4202100	.5375456	.6177896	.1598715	.6481231	.3635513
#1	.9101092	.0042480	.0083373	25.47409	.1297977	.0757995
#2	.9134726	.0042246	.0082368	25.54373	.1309096	.0753948
#3	.9058441	.0042026	.0082703	25.47221	.1292572	.0759204

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2668497**	**137.9338**	**5.433793**	**14.93966**	**.1202803**	**-.010174**
Stddev	.0014949	.3467	.012571	.02195	.0002890	.000029
%RSD	.5602036	.2513780	.2313505	.1469327	.2402296	.2809327
#1	.2658855	137.6701	5.431839	14.95369	.1199684	-.010206
#2	.2685717	138.3265	5.447227	14.95093	.1203340	-.010165
#3	.2660919	137.8047	5.422313	14.91437	.1205387	-.010151

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2523663**	**.1471375**	**1.135192**	**6.599892**	**6.541726**	**.5791236**
Stddev	.0689877	.0008338	.001015	.061874	.029402	.0021191
%RSD	27.33632	.5666549	.0894285	.9375026	.4494546	.3659163
#1	.2591795	.1479240	1.134721	6.539026	6.559886	.5789415
#2	.3176945	.1472251	1.136357	6.597924	6.557487	.5813279
#3	.1802248	.1462634	1.134498	6.662727	6.507803	.5771014

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-16 Acquired: 1/12/2025 10:28:17 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMS3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0037855	1.377457	F 13.90852	.0466262	.5849514	.0584291
Stddev	.0001143	.014559	.05003	.0004807	.0015398	.0006431
%RSD	3.019246	1.056983	.3597341	1.030907	.2632373	1.100696
#1	.0038729	1.383531	13.85419	.0460767	.5834725	.0576870
#2	.0036562	1.387995	13.95271	.0469684	.5865456	.0587743
#3	.0038275	1.360843	13.91865	.0468336	.5848361	.0588258

Elem	Sr4077
Units	ppm
Avg	.0949992
Stddev	.0002281
%RSD	.2401236
#1	.0947917
#2	.0952434
#3	.0949624

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2761.275	65142.76	9286.760	3106.926	3358.918
Stddev	8.521	164.28	34.773	8.148	4.027
%RSD	.3085869	.2521826	.3744336	.2622467	.1198947
#1	2767.510	65305.12	9322.729	3109.212	3361.055
#2	2751.566	64976.63	9284.229	3097.879	3354.273
#3	2764.749	65146.54	9253.322	3113.686	3361.426

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-17 Acquired: 1/12/2025 10:32:14 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMS4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0895760**	**-.005538**	**.5251334**	**.0332797**	**-.004172**	**68.84333**
Stddev	.0006694	.001496	.0016410	.0005562	.001350	.08798
%RSD	.7472917	27.02270	.3124933	1.671243	32.36395	.1278012
#1	.0889336	-.007172	.5265607	.0338580	-.004065	68.77145
#2	.0902695	-.005206	.5254989	.0332324	-.002878	68.81709
#3	.0895250	-.004235	.5233404	.0327486	-.005572	68.94144

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7023147**	**.0046949**	**.0077524**	**35.80101**	**.1189185**	**.0944251**
Stddev	.0016501	.0001088	.0001076	.08288	.0000916	.0002642
%RSD	.2349554	2.317486	1.387282	.2314925	.0769819	.2798146
#1	.7041198	.0046209	.0077969	35.79874	.1188177	.0942897
#2	.7019403	.0046441	.0076297	35.71929	.1189414	.0942561
#3	.7008839	.0048198	.0078305	35.88500	.1189965	.0947296

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2802920**	**173.1635**	**6.923687**	**23.04325**	**.1569516**	**-.013661**
Stddev	.0004791	.3911	.016479	.06167	.0005654	.000291
%RSD	.1709101	.2258330	.2380035	.2676228	.3602268	2.132179
#1	.2804785	172.9474	6.936530	23.00443	.1563791	-.013953
#2	.2797478	172.9281	6.905107	23.01096	.1575096	-.013659
#3	.2806498	173.6149	6.929425	23.11436	.1569660	-.013371

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3893869**	**.1498588**	**.7328128**	**6.246744**	**5.847447**	**.7238026**
Stddev	.1613315	.0010804	.0031010	.033543	.015043	.0023651
%RSD	41.43219	.7209447	.4231691	.5369731	.2572490	.3267546
#1	.3176160	.1503122	.7295154	6.267373	5.859989	.7228043
#2	.5741500	.1486255	.7356705	6.208040	5.851583	.7221005
#3	.2763946	.1506386	.7332524	6.264820	5.830769	.7265032

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-17 Acquired: 1/12/2025 10:32:14 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMS4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039503	1.043285	F 13.99289	.0464728	.4955834	.0723152
Stddev	.0002414	.004290	.07587	.0007710	.0010225	.0004776
%RSD	6.109763	.4111841	.5421774	1.659039	.2063165	.6604372
#1	.0037955	1.047663	14.07937	.0456975	.4967401	.0728392
#2	.0038271	1.043102	13.93753	.0472395	.4948003	.0722023
#3	.0042284	1.039090	13.96178	.0464815	.4952097	.0719042

Elem	Sr4077
Units	ppm
Avg	.0938380
Stddev	.0003582
%RSD	.3817009
#1	.0934787
#2	.0938403
#3	.0941950

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3247.531	74853.43	10783.73	3572.174	3400.379
Stddev	4.222	31.42	33.31	6.505	5.065
%RSD	.1300144	.0419700	.3089241	.1821059	.1489529
#1	3243.036	74858.04	10747.05	3576.408	3394.549
#2	3251.413	74819.97	10792.02	3564.684	3403.700
#3	3248.144	74882.29	10812.11	3575.431	3402.887

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-18 Acquired: 1/12/2025 10:36:11 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMS5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0813049**	**-.007368**	**.1877685**	**.0305738**	**-.003298**	**61.72631**
Stddev	.0008381	.001813	.0005739	.0001840	.001450	.42850
%RSD	1.030811	24.60389	.3056398	.6016868	43.97711	.6941886
#1	.0822685	-.009144	.1876436	.0304755	-.004870	61.81376
#2	.0809004	-.005521	.1883945	.0307860	-.003011	61.26084
#3	.0807457	-.007438	.1872673	.0304599	-.002012	62.10434

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.122822**	**.0054482**	**.0098586**	**43.18487**	**.1120775**	**.1184678**
Stddev	.013783	.0000370	.0001277	.35047	.0005191	.0002381
%RSD	1.227542	.6789020	1.295060	.8115530	.4631964	.2009957
#1	1.122834	.0054139	.0097518	43.24038	.1125548	.1184699
#2	1.109033	.0054874	.0098240	42.80996	.1121529	.1182287
#3	1.136599	.0054433	.0100000	43.50427	.1115247	.1187049

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2113384**	**164.7329**	**16.89171**	**20.55411**	**.2140212**	**-.011691**
Stddev	.0014974	1.1097	.08681	.10139	.0001659	.000451
%RSD	.7085497	.6736069	.5139449	.4932883	.0774967	3.860500
#1	.2101811	164.9795	16.91055	20.54702	.2141834	-.011409
#2	.2130296	163.5207	16.79702	20.45645	.2138519	-.012211
#3	.2108044	165.6985	16.96756	20.65886	.2140284	-.011452

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4666898**	**.1247007**	**.4752701**	**6.376894**	**5.015360**	**.6897511**
Stddev	.0924526	.0022992	.0004232	.086476	.005547	.0066660
%RSD	19.81028	1.843742	.0890500	1.356082	.1106023	.9664396
#1	.3600326	.1224221	.4752393	6.335097	5.010595	.6908025
#2	.5160624	.1270199	.4757079	6.319258	5.014035	.6826219
#3	.5239745	.1246599	.4748631	6.476328	5.021449	.6958290

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-18 Acquired: 1/12/2025 10:36:11 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMS5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029828	.9833814	F 13.31874	.0049728	.4516129	.0714279
Stddev	.0001323	.0048182	.04070	.0017184	.0018678	.0011917
%RSD	4.434704	.4899672	.3055494	34.55593	.4135896	1.668425
#1	.0031264	.9783322	13.28565	.0042357	.4494611	.0713798
#2	.0029559	.9838826	13.30637	.0037460	.4525621	.0702610
#3	.0028660	.9879295	13.36418	.0069368	.4528154	.0726430

Elem	Sr4077
Units	ppm
Avg	.0879764
Stddev	.0006713
%RSD	.7630543
#1	.0882745
#2	.0872077
#3	.0884470

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3466.643	80981.82	11644.08	3843.869	3331.758
Stddev	.820	294.82	100.17	4.413	3.584
%RSD	.0236582	.3640525	.8602946	.1148075	.1075792
#1	3465.699	80654.42	11604.30	3846.909	3335.704
#2	3467.050	81226.29	11569.91	3838.807	3330.867
#3	3467.180	81064.75	11758.04	3845.891	3328.704

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-19 Acquired: 1/12/2025 10:40:14 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMS6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1006570**	**-.008992**	**.2009472**	**.0378226**	**-.004460**	**59.14204**
Stddev	.0020582	.000574	.0015761	.0010090	.001875	.28924
%RSD	2.044792	6.379977	.7843368	2.667670	42.05348	.4890617
#1	.0985373	-.009538	.2023902	.0381811	-.006611	59.04629
#2	.1007862	-.008394	.2011862	.0386034	-.003601	58.91282
#3	.1026476	-.009044	.1992653	.0366833	-.003167	59.46702

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.297757**	**.0050403**	**.0093702**	**40.60271**	**.1259685**	**.1478745**
Stddev	.004083	.0001005	.0000461	.15092	.0004043	.0003589
%RSD	.3146303	1.993463	.4922122	.3717095	.3209353	.2426802
#1	1.299187	.0050870	.0094219	40.47825	.1261899	.1479110
#2	1.293152	.0051090	.0093551	40.55929	.1262137	.1474988
#3	1.300933	.0049250	.0093335	40.77058	.1255019	.1482137

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2436238**	**201.0580**	**12.68800**	**22.00112**	**.2144438**	**-.014292**
Stddev	.0029957	1.0718	.03556	.16212	.0003681	.000284
%RSD	1.229634	.5330997	.2802738	.7368853	.1716362	1.987684
#1	.2449893	200.4236	12.68427	21.86319	.2146128	-.014603
#2	.2401886	200.4548	12.65446	21.96046	.2140216	-.014228
#3	.2456933	202.2955	12.72529	22.17970	.2146971	-.014046

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5083800**	**.1317252**	**.5253992**	**6.545035**	**7.432861**	**.8370033**
Stddev	.0463784	.0017759	.0019059	.036820	.006783	.0054684
%RSD	9.122779	1.348182	.3627513	.5625603	.0912558	.6533353
#1	.5506640	.1330881	.5250660	6.544800	7.430971	.8344926
#2	.4587774	.1297169	.5274498	6.581972	7.427223	.8332410
#3	.5156986	.1323707	.5236819	6.508334	7.440388	.8432762

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-19 Acquired: 1/12/2025 10:40:14 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMS6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014861	.7006321	F 14.66625	.0058366	.6916698	.0698099
Stddev	.0002409	.0024255	.00786	.0015750	.0003873	.0003280
%RSD	16.20947	.3461940	.0535604	26.98389	.0559979	.4698767
#1	.0015934	.6983538	14.67489	.0075823	.6919595	.0696618
#2	.0012102	.7003605	14.66431	.0054054	.6918200	.0695821
#3	.0016547	.7031821	14.65954	.0045222	.6912298	.0701859

Elem	Sr4077
Units	ppm
Avg	.1098419
Stddev	.0007220
%RSD	.6573468
#1	.1095822
#2	.1092856
#3	.1106579

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3548.750	84706.56	12071.93	3982.799	3272.752
Stddev	5.237	84.33	27.40	6.243	2.918
%RSD	.1475712	.0995529	.2269335	.1567548	.0891568
#1	3550.326	84677.15	12054.79	3980.501	3272.854
#2	3553.018	84801.66	12057.49	3978.031	3275.618
#3	3542.906	84640.88	12103.53	3989.866	3269.785

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-20 Acquired: 1/12/2025 10:44:11 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMS7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0304407**	**-.007765**	**.0763459**	**-.004457**	**.0043977**	**24.67833**
Stddev	.0030332	.001554	.0015646	.000779	.0007853	.10153
%RSD	9.964403	20.01433	2.049371	17.48879	17.85578	.4114329
#1	.0328742	-.008120	.0760941	-.005343	.0047256	24.78976
#2	.0314055	-.009110	.0749224	-.004151	.0035017	24.59105
#3	.0270424	-.006064	.0780211	-.003877	.0049659	24.65418

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2423988**	**.0019093**	**.0024347**	F **2049.570**	**.0503271**	**.0248265**
Stddev	.0011449	.0000906	.0000277	3.882	.0005537	.0007599
%RSD	.4723327	4.745413	1.135490	.1894264	1.100265	3.060995
#1	.2436125	.0018189	.0024595	2051.516	.0500299	.0256939
#2	.2413380	.0019090	.0024398	2045.099	.0509660	.0245074
#3	.2422459	.0020001	.0024049	2052.094	.0499854	.0242781

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1148797**	**78.40214**	**5.412680**	**424.6541**	**.0576441**	**-.008029**
Stddev	.0017842	.30782	.016259	1.2608	.0006098	.000248
%RSD	1.553077	.3926118	.3003796	.2969050	1.057874	3.083088
#1	.1169377	78.71878	5.430700	425.6938	.0578524	-.008000
#2	.1137689	78.10398	5.399109	423.2517	.0581224	-.007796
#3	.1139325	78.38365	5.408231	425.0167	.0569574	-.008289

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5381554**	**.0641177**	**.2422254**	**5.052435**	**3.376998**	**.3579370**
Stddev	.0724741	.0019679	.0005441	.028869	.012618	.0005857
%RSD	13.46714	3.069189	.2246263	.5713851	.3736390	.1636394
#1	.5720139	.0647026	.2426022	5.083505	3.388880	.3579936
#2	.5875035	.0657268	.2416016	5.026441	3.363755	.3573251
#3	.4549487	.0619236	.2424723	5.047359	3.378360	.3584924

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-20 Acquired: 1/12/2025 10:44:11 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMS7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019077	.9444111	9.040034	-.001855	.2156369	.0823775
Stddev	.0001323	.0039531	.017019	.001008	.0017092	.0003015
%RSD	6.935281	.4185738	.1882619	54.33421	.7926351	.3660097
#1	.0019266	.9473202	9.043831	-.001709	.2176045	.0823886
#2	.0017669	.9460028	9.054834	-.000928	.2145198	.0826734
#3	.0020295	.9399103	9.021438	-.002928	.2147863	.0820707

Elem	Sr4077
Units	ppm
Avg	.9474904
Stddev	.0050145
%RSD	.5292371
#1	.9532691
#2	.9442849
#3	.9449171

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2321.416	54266.60	8458.147	2518.335	2576.704
Stddev	1.068	94.73	33.551	8.388	3.206
%RSD	.0460195	.1745722	.3966650	.3330758	.1244234
#1	2321.004	54298.47	8495.140	2516.472	2574.251
#2	2322.629	54341.28	8429.686	2527.498	2580.332
#3	2320.615	54160.04	8449.615	2511.036	2575.530

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-21 Acquired: 1/12/2025 10:48:19 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMT8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0597357**	**-.002948**	**.6905385**	**.0185016**	**-.000574**	**38.96902**
Stddev	.0018988	.000797	.0004762	.0014245	.002545	.17500
%RSD	3.178739	27.02622	.0689573	7.699212	443.5968	.4490680
#1	.0611083	-.003501	.6901812	.0170710	-.003450	38.97284
#2	.0575686	-.002035	.6910791	.0199198	.001387	39.14208
#3	.0605300	-.003309	.6903553	.0185140	.000342	38.79214

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4296928**	**.0028131**	**.0051392**	**53.45223**	**.0960064**	**.0482091**
Stddev	.0027546	.0001119	.0000537	.33692	.0004090	.0000954
%RSD	.6410514	3.978077	1.044718	.6303107	.4260299	.1978526
#1	.4309036	.0026995	.0051779	53.54946	.0964015	.0482070
#2	.4316346	.0028166	.0051618	53.72984	.0960330	.0481149
#3	.4265403	.0029232	.0050779	53.07739	.0955848	.0483056

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1618850**	**90.57428**	**5.739983**	**15.59535**	**.1168100**	**-.006945**
Stddev	.0012558	.49931	.033386	.07425	.0003451	.000571
%RSD	.7757383	.5512703	.5816410	.4761112	.2954613	8.228340
#1	.1604821	90.52926	5.749028	15.58762	.1168055	-.006868
#2	.1622690	91.09458	5.767915	15.67317	.1171573	-.006415
#3	.1629040	90.09901	5.703006	15.52527	.1164671	-.007551

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4065087**	**.1015286**	**.8786103**	**5.829291**	**6.819332**	**.3941472**
Stddev	.0652071	.0018110	.0029516	.089714	.008958	.0030578
%RSD	16.04076	1.783718	.3359367	1.539025	.1313548	.7757970
#1	.4740682	.0994386	.8759217	5.753674	6.829188	.3947115
#2	.4015169	.1025126	.8817685	5.928420	6.811686	.3968836
#3	.3439409	.1026345	.8781406	5.805778	6.817123	.3908466

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-21 Acquired: 1/12/2025 10:48:19 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMT8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0061991	3.814952	F 12.24750	.0194834	.6677561	.0361038
Stddev	.0002716	.014353	.04114	.0002302	.0025423	.0010310
%RSD	4.381357	.3762255	.3358890	1.181664	.3807244	2.855656
#1	.0060724	3.824954	12.29484	.0192214	.6694294	.0350214
#2	.0065109	3.821396	12.22718	.0196533	.6690083	.0362157
#3	.0060140	3.798507	12.22046	.0195756	.6648306	.0370743

Elem	Sr4077
Units	ppm
Avg	.1020269
Stddev	.0005451
%RSD	.5342272
#1	.1020000
#2	.1025849
#3	.1014958

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2794.607	66442.55	9352.798	3098.458	3376.660
Stddev	4.993	141.69	29.207	13.184	1.586
%RSD	.1786814	.2132466	.3122846	.4254952	.0469642
#1	2800.126	66481.10	9345.312	3107.051	3378.380
#2	2790.403	66285.57	9385.020	3083.279	3375.256
#3	2793.293	66560.97	9328.063	3105.044	3376.344

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-22 Acquired: 1/12/2025 10:52:15 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMT9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0685742**	**-.002460**	**.7978499**	**.0250950**	**.0003112**	**43.60162**
Stddev	.0021995	.000716	.0030479	.0021807	.0007034	.17038
%RSD	3.207479	29.10416	.3820088	8.689600	226.0516	.3907583
#1	.0662188	-.003017	.7945971	.0225806	.0002215	43.40538
#2	.0689291	-.001652	.7983126	.0262356	.0010550	43.68763
#3	.0705746	-.002712	.8006399	.0264687	-.000343	43.71185

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4504688**	**.0030346**	**.0055788**	**36.19708**	**.0894214**	**.0533666**
Stddev	.0014655	.0000539	.0000645	.09585	.0001561	.0003963
%RSD	.3253252	1.774924	1.157009	.2648038	.1745134	.7425256
#1	.4487804	.0029775	.0055900	36.08817	.0894656	.0531655
#2	.4512154	.0030416	.0055094	36.23445	.0895506	.0531111
#3	.4514106	.0030845	.0056371	36.26862	.0892480	.0538230

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1722637**	**99.83871**	**6.190941**	**13.95167**	**.1277554**	**-.007572**
Stddev	.0006312	.37867	.010117	.03823	.0004623	.000198
%RSD	.3664062	.3792798	.1634161	.2740074	.3618888	2.616101
#1	.1719976	99.41298	6.180415	13.91735	.1281286	-.007353
#2	.1729844	99.96522	6.191817	13.94478	.1272382	-.007738
#3	.1718092	100.1379	6.200592	13.99287	.1278993	-.007626

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4702532**	**.1119718**	**.7970688**	**5.091473**	**6.333236**	**.4274266**
Stddev	.1359278	.0012808	.0021334	.067548	.005745	.0019123
%RSD	28.90523	1.143862	.2676624	1.326690	.0907126	.4473953
#1	.3910411	.1128425	.7967719	5.013562	6.339513	.4254650
#2	.6272067	.1125718	.7950993	5.133607	6.331958	.4275294
#3	.3925117	.1105012	.7993351	5.127251	6.328238	.4292854

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-22 Acquired: 1/12/2025 10:52:15 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMT9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0056869	3.113010	F 12.40913	.0243972	.7136069	.0398992
Stddev	.0004634	.016478	.03780	.0001817	.0016508	.0012171
%RSD	8.148921	.5293184	.3045870	.7445467	.2313306	3.050327
#1	.0052947	3.099597	12.45185	.0242452	.7138499	.0397220
#2	.0055677	3.108031	12.39550	.0243479	.7151227	.0387805
#3	.0061982	3.131403	12.38004	.0245984	.7118481	.0411952

Elem	Sr4077
Units	ppm
Avg	.0805561
Stddev	.0004942
%RSD	.6134999
#1	.0799961
#2	.0807411
#3	.0809311

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2838.616	67839.42	9493.086	3178.783	3374.054
Stddev	3.531	78.19	64.915	9.654	8.751
%RSD	.1243859	.1152543	.6838121	.3036874	.2593601
#1	2835.683	67754.32	9422.031	3167.751	3372.695
#2	2842.535	67908.09	9507.942	3182.915	3383.406
#3	2837.630	67855.86	9549.286	3185.683	3366.063

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV006 Acquired: 1/12/2025 10:56:12 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV006 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.530411**	**4.727371**	**23.68022**	**4.590786**	**4.512595**	**379.9348**
Stddev	.015790	.031667	.06843	.018697	.021061	1.1195
%RSD	.3485403	.6698709	.2889723	.4072757	.4667097	.2946638
#1	4.529518	4.697713	23.60779	4.585292	4.496756	378.6600
#2	4.515087	4.723677	23.68908	4.575451	4.504534	380.3861
#3	4.546629	4.760723	23.74378	4.611614	4.536496	380.7581

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.539759**	**.4921551**	**2.393837**	**380.3536**	**15.10481**	**2.397533**
Stddev	.074691	.0013559	.008970	2.3711	.04205	.006974
%RSD	.7829392	.2754917	.3747310	.6233963	.2783678	.2908969
#1	9.623824	.4930018	2.384429	381.0460	15.05669	2.390899
#2	9.514416	.4905913	2.394788	382.3015	15.12328	2.396896
#3	9.481038	.4928722	2.402294	377.7134	15.13446	2.404804

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.54295**	**382.0536**	**14.42917**	**239.5334**	**2.391270**	**1.207386**
Stddev	.01142	1.0409	.06468	.4115	.007470	.000921
%RSD	.0785025	.2724360	.4482585	.1717894	.3123808	.0762780
#1	14.55593	381.4847	14.38177	239.2467	2.383542	1.207986
#2	14.53448	383.2549	14.50286	240.0049	2.391815	1.207847
#3	14.53844	381.4211	14.40289	239.3487	2.398452	1.206326

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**389.3550**	**2.370167**	**15.41846**	**142.3139**	**4.773671**	F **5.770419**
Stddev	.4070	.001574	.03156	.5421	.030282	.005022
%RSD	.1045377	.0664080	.2046680	.3808962	.6343519	.0870260
#1	388.9863	2.370985	15.42312	141.9717	4.739204	5.774144
#2	389.2869	2.371163	15.44743	142.9389	4.785806	5.764708
#3	389.7917	2.368352	15.38483	142.0311	4.796004	5.772405

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV006 Acquired: 1/12/2025 10:56:12 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV006 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.547886**	**4.750900**	**4.786930**	**4.726171**	**4.770085**	**4.608380**
Stddev	.014031	.020940	.001369	.013629	.005268	.024545
%RSD	.3085272	.4407531	.0286023	.2883665	.1104464	.5326093
#1	4.544111	4.727975	4.785355	4.711793	4.768146	4.597442
#2	4.536128	4.755706	4.787599	4.727819	4.776048	4.636492
#3	4.563419	4.769019	4.787836	4.738900	4.766061	4.591205

Elem	Sr4077
Units	ppm
Avg	**4.857709**
Stddev	.027350
%RSD	.5630265
#1	4.827034
#2	4.879551
#3	4.866541

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2048.316**	**50719.25**	**7697.616**	**2407.971**	**2745.383**
Stddev	6.443	128.06	13.807	7.486	6.837
%RSD	.3145342	.2524921	.1793663	.3108959	.2490311
#1	2049.058	50862.19	7697.445	2402.994	2751.748
#2	2054.356	50614.97	7711.508	2404.338	2746.244
#3	2041.535	50680.59	7683.895	2416.580	2738.156

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB006 Acquired: 1/12/2025 11:00:27 Type: Unk
Method: EPA SFAM01.0(v33) 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	**-.001170**	**.0002614**	**.0016756**	**.0028800**	**-.000225**	**.0137343**	**-.002330**
Stddev	.000168	.0007339	.0015129	.0009248	.002202	.0075892	.001081
%RSD	14.36541	280.7916	90.29094	32.11288	977.3452	55.25697	46.41824
#1	-.000989	.0009051	.0024754	.0032286	-.002520	.0068056	-.001102
#2	-.001200	.0004169	.0026207	.0035798	-.000027	.0125521	-.002744
#3	-.001321	-.000538	-.000069	.0018315	.001871	.0218452	-.003143

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000162**	**.0000526**	**.0196650**	**.0002572**	**-.000069**	**.0002280**	**.0249659**
Stddev	.0000826	.0000403	.0046450	.0004068	.000249	.0014441	.0014075
%RSD	509.3018	76.64485	23.62078	158.1305	360.0428	633.4777	5.637647
#1	.0000795	.0000800	.0219018	.0007005	.000081	.0018823	.0241817
#2	-.000077	.0000063	.0227685	.0001704	.000069	-.000780	.0265908
#3	.000046	.0000715	.0143248	-.000099	-.000357	-.000418	.0241251

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003431**	**.0160082**	**-.000249**	**.0005386**	**.0957966**	**-.000829**	**.0004747**
Stddev	.0003711	.0147076	.000309	.0002502	.1055408	.000509	.0001962
%RSD	108.1414	91.87503	124.2522	46.45454	110.1717	61.47695	41.33812
#1	.0001001	-.000369	-.000469	.0007975	.0117800	-.000347	.0003867
#2	.0007703	.020303	-.000383	.0002981	.0613539	-.001362	.0003378
#3	.0001591	.028090	.000105	.0005201	.2142560	-.000778	.0006995

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1088452**	**-.001336**	**.0010440**	**.0003873**	**-.001450**	**.0035350**	**-.000393**
Stddev	.0169569	.001166	.0007411	.0005575	.001573	.0029967	.000819
%RSD	15.57889	87.32241	70.98333	143.9608	108.4747	84.77254	208.4854
#1	.0953198	-.002393	.0018995	.0007543	-.000574	.0057864	.000322
#2	.1278690	-.000084	.0005981	.0006617	-.003266	.0001336	-.001287
#3	.1033469	-.001530	.0006345	-.000254	-.000510	.0046850	-.000214

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB006 Acquired: 1/12/2025 11:00:27 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB006 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000226	-.001162	.0001330
Stddev	.000602	.000799	.0000831
%RSD	266.4340	68.75488	62.46935
#1	-.000293	-.000886	.0001648
#2	.000407	-.002063	.0000387
#3	-.000792	-.000538	.0001955

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2527.992	60560.42	8073.987	2852.660	3553.303
Stddev	.903	171.48	51.630	2.754	5.322
%RSD	.0357366	.2831618	.6394577	.0965426	.1497623
#1	2529.032	60364.72	8014.676	2855.777	3555.357
#2	2527.543	60684.42	8098.415	2851.652	3557.291
#3	2527.401	60632.12	8108.869	2850.553	3547.260

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-01 Acquired: 1/12/2025 11:04:36 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D26 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1575989	-.069352	24.91403	.0451489	.0219795	54.96652
Stddev	.0025768	.002015	.04262	.0028408	.0018369	.06165
%RSD	1.635013	2.905215	.1710553	6.292050	8.357168	.1121541
#1	.1596728	-.067254	24.87356	.0423881	.0240829	54.91263
#2	.1584097	-.069531	24.95851	.0449953	.0206920	55.03374
#3	.1547143	-.071272	24.91003	.0480634	.0211634	54.95318

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2738793	.0153027	.1166943	17.38125	.0551153	.1189937
Stddev	.0008130	.0000522	.0004217	.06327	.0001827	.0004644
%RSD	.2968568	.3413573	.3613830	.3640248	.3314577	.3902806
#1	.2731058	.0152485	.1162086	17.32022	.0549839	.1184575
#2	.2738053	.0153528	.1169068	17.44655	.0550381	.1192630
#3	.2747268	.0153067	.1169675	17.37696	.0553239	.1192607

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.902406	200.2038	F 129.9618	29.21538	.0596442	.1526028
Stddev	.014692	.3412	.7435	.08791	.0000629	.0005074
%RSD	.2128482	.1704089	.5721169	.3009024	.1054767	.3324646
#1	6.915454	199.8509	129.3804	29.16237	.0596889	.1531144
#2	6.886493	200.5319	130.7996	29.31686	.0596714	.1525944
#3	6.905271	200.2287	129.7054	29.16693	.0595722	.1520998

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0668426	.0940663	F 31.59575	7.230419	6.627630	.8053950
Stddev	.1773237	.0011023	.13862	.049070	.016844	.0018926
%RSD	265.2855	1.171819	.4387325	.6786666	.2541476	.2349869
#1	.2714748	.0944067	31.59152	7.179730	6.608871	.8058203
#2	-.041632	.0949582	31.45929	7.233833	6.632561	.8070387
#3	-.029315	.0928340	31.73644	7.277693	6.641459	.8033260

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-01 Acquired: 1/12/2025 11:04:36 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D26 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8810677	8.150357	F 16.84073	.0041552	.2137070	.1556023
Stddev	.0019427	.030235	.00775	.0003219	.0011077	.0010186
%RSD	.2204922	.3709673	.0460132	7.746518	.5183144	.6546343
#1	.8829590	8.115879	16.84838	.0044030	.2139868	.1546460
#2	.8790774	8.162840	16.84092	.0042713	.2146479	.1566735
#3	.8811667	8.172352	16.83289	.0037914	.2124862	.1554874

Elem	Sr4077
Units	ppm
Avg	.1163737
Stddev	.0001478
%RSD	.1270011
#1	.1163998
#2	.1162146
#3	.1165068

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2665.646	63034.09	8904.543	3017.921	3276.549
Stddev	6.174	124.85	9.610	.680	3.437
%RSD	.2316289	.1980728	.1079270	.0225255	.1049011
#1	2658.552	63134.83	8912.850	3018.406	3272.972
#2	2669.816	62894.40	8894.017	3018.213	3276.851
#3	2668.568	63073.03	8906.762	3017.144	3279.826

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-02 Acquired: 1/12/2025 11:08:45 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D29 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.096494**	**-.106804**	F **139.1770**	**.1495699**	**.2359831**	**19.80269**
Stddev	.000780	.002633	.2203	.0042645	.0005740	.04757
%RSD	.0711771	2.465531	.1583218	2.851190	.2432319	.2402379
#1	1.096130	-.103763	139.0784	.1538297	.2355842	19.75015
#2	1.095963	-.108298	139.0232	.1453006	.2357241	19.84284
#3	1.097390	-.108350	139.4294	.1495793	.2366409	19.81510

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6910362**	**.0149642**	**.2441462**	**67.95831**	**.0310426**	**.0332397**
Stddev	.0026585	.0001659	.0003054	.08023	.0005282	.0005264
%RSD	.3847075	1.108782	.1250905	.1180519	1.701510	1.583611
#1	.6890126	.0149826	.2444910	67.88200	.0311035	.0338324
#2	.6940471	.0147899	.2439096	68.04195	.0315377	.0328267
#3	.6900490	.0151202	.2440382	67.95100	.0304866	.0330599

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.727512**	**581.6599**	F **143.7773**	**4.582916**	**.0447017**	**.8547167**
Stddev	.025185	1.5830	1.0584	.041309	.0009394	.0009207
%RSD	.2885681	.2721460	.7361046	.9013792	2.101598	.1077239
#1	8.728693	581.0326	143.2260	4.536728	.0439376	.8554458
#2	8.701757	580.4867	143.1083	4.595694	.0444170	.8536820
#3	8.752085	583.4603	144.9975	4.616328	.0457506	.8550223

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.029067**	**.0003749**	F **39.43598**	**6.376732**	**4.451151**	**2.338504**
Stddev	.084074	.0021330	.22605	.118677	.009447	.007955
%RSD	8.169966	568.9690	.5732101	1.861094	.2122284	.3401638
#1	.954488	.0011182	39.63874	6.268603	4.459727	2.330438
#2	1.012532	.0020369	39.47696	6.503703	4.441026	2.338730
#3	1.120180	-.002030	39.19224	6.357892	4.452701	2.346343

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-02 Acquired: 1/12/2025 11:08:45 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D29 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2346333	F 258.4689	F 21.16996	.0218669	.3819521	.0144189
Stddev	.0003709	.3201	.06639	.0012700	.0025551	.0018515
%RSD	.1580758	.1238544	.3136141	5.807766	.6689535	12.84099
#1	.2342610	258.8212	21.24555	.0220938	.3847433	.0130719
#2	.2350028	258.3898	21.14324	.0204988	.3797286	.0165303
#3	.2346362	258.1957	21.12109	.0230082	.3813845	.0136546

Elem	Sr4077
Units	ppm
Avg	.1780792
Stddev	.0006623
%RSD	.3719152
#1	.1773146
#2	.1784721
#3	.1784510

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2468.698	58783.02	8453.976	2792.627	3321.653
Stddev	4.389	53.20	49.978	2.305	3.622
%RSD	.1777966	.0905010	.5911818	.0825517	.1090431
#1	2470.551	58782.28	8416.658	2791.366	3324.751
#2	2463.686	58836.58	8510.758	2795.288	3322.535
#3	2471.856	58730.20	8434.511	2791.228	3317.671

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-03 Acquired: 1/12/2025 11:13:03 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D32 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5078057	-.010909	F 51.42044	.0925024	.0583371	44.20608
Stddev	.0018111	.000513	.03584	.0029172	.0010172	.08540
%RSD	.3566572	4.702270	.0696935	3.153681	1.743670	.1931775
#1	.5058594	-.011408	51.46138	.0893597	.0593296	44.29094
#2	.5094416	-.010937	51.39475	.0930238	.0583847	44.20714
#3	.5081161	-.010383	51.40520	.0951239	.0572969	44.12016

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.087865	.0040890	.0607838	13.61828	.0915765	.0498625
Stddev	.007737	.0002479	.0002051	.01891	.0004034	.0003481
%RSD	.3705914	6.062819	.3373778	.1388888	.4404661	.6981321
#1	2.096782	.0039621	.0605864	13.60824	.0916016	.0499389
#2	2.083898	.0043746	.0609958	13.60650	.0919668	.0501660
#3	2.082917	.0039302	.0607692	13.64010	.0911612	.0494825

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.657885	420.9880	18.51232	25.91586	.0648558	.1648289
Stddev	.013261	1.4633	.05724	.03308	.0005832	.0005419
%RSD	.3625185	.3475894	.3091797	.1276288	.8992024	.3287576
#1	3.665696	422.3978	18.57633	25.94285	.0643582	.1643573
#2	3.642575	421.0898	18.46608	25.87896	.0647115	.1654208
#3	3.665386	419.4765	18.49455	25.92577	.0654975	.1647086

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.318682	.1232076	14.72698	12.78808	9.468228	1.717506
Stddev	.199022	.0005263	.01029	.03299	.012524	.009855
%RSD	15.09248	.4271702	.0699003	.2579722	.1322772	.5738114
#1	1.530372	.1237830	14.72645	12.82528	9.457057	1.726467
#2	1.290298	.1227505	14.73752	12.76237	9.465860	1.719100
#3	1.135376	.1230893	14.71696	12.77659	9.481768	1.706950

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-03 Acquired: 1/12/2025 11:13:03 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D32 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3245286	F 59.54011	F 12.50024	.0430120	1.871142	.0773099
Stddev	.0006561	.05148	.06270	.0011376	.004633	.0013315
%RSD	.2021611	.0864674	.5015805	2.644782	.2475778	1.722333
#1	.3244688	59.52967	12.47912	.0437535	1.874186	.0778221
#2	.3252125	59.49465	12.45082	.0417023	1.865811	.0757983
#3	.3239044	59.59601	12.57077	.0435803	1.873430	.0783093

Elem	Sr4077
Units	ppm
Avg	.2264551
Stddev	.0008297
%RSD	.3663855
#1	.2271890
#2	.2266214
#3	.2255548

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2621.264	62828.17	9175.388	2955.828	3364.084
Stddev	3.348	42.40	40.729	4.594	1.576
%RSD	.1277321	.0674899	.4438956	.1554166	.0468450
#1	2621.901	62826.88	9200.969	2960.083	3362.622
#2	2617.644	62871.20	9196.774	2950.958	3363.877
#3	2624.249	62786.43	9128.420	2956.442	3365.754

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-04 Acquired: 1/12/2025 11:17:04 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D35 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4287219	-.052351	F 131.7166	.1222020	.1655776	58.77583
Stddev	.0031038	.003326	.7296	.0051510	.0037684	.39606
%RSD	.7239721	6.353121	.5539144	4.215195	2.275903	.6738417
#1	.4261455	-.048971	131.3106	.1164512	.1617233	58.49452
#2	.4278525	-.055620	131.2803	.1237621	.1657559	59.22875
#3	.4321677	-.052463	132.5589	.1263926	.1692537	58.60422

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.035522	.0104974	.5416572	22.49788	.0473216	.1488701
Stddev	.015863	.0001151	.0038130	.20655	.0007952	.0012705
%RSD	.7792962	1.096346	.7039563	.9180864	1.680395	.8534199
#1	2.024755	.0103708	.5394088	22.36020	.0464625	.1485943
#2	2.053738	.0105256	.5395030	22.73538	.0480319	.1477602
#3	2.028073	.0105957	.5460598	22.39805	.0474703	.1502559

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 86.09302	389.0665	F 84.23075	28.73081	.0632305	.9786888
Stddev	1.17496	1.0327	.54244	.18215	.0013014	.0039743
%RSD	1.364760	.2654392	.6439915	.6339779	2.058131	.4060863
#1	85.35523	388.2055	84.03441	28.58774	.0617870	.9749699
#2	85.47586	390.2115	84.84401	28.93586	.0635908	.9828769
#3	87.44796	388.7825	83.81382	28.66882	.0643138	.9782196

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9235701	.1107109	F 44.34504	7.230848	6.054949	1.572383
Stddev	.0374646	.0020164	.18396	.090403	.042354	.007949
%RSD	4.056501	1.821348	.4148342	1.250238	.6994992	.5055586
#1	.9668166	.1130380	44.48035	7.180649	6.025664	1.566471
#2	.9009976	.1096160	44.13558	7.335211	6.035670	1.581420
#3	.9028960	.1094788	44.41918	7.176684	6.103514	1.569257

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-04 Acquired: 1/12/2025 11:17:04 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D35 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5844609	F 122.1156	F 17.79551	.2718589	.7754347	.1482912
Stddev	.0030808	.4860	.07320	.0018490	.0055219	.0027762
%RSD	.5271225	.3979643	.4113368	.6801363	.7121075	1.872133
#1	.5824286	121.8035	17.85375	.2707633	.7809261	.1460980
#2	.5829485	121.8678	17.71334	.2708198	.7698827	.1514126
#3	.5880057	122.6756	17.81945	.2739937	.7754952	.1473631

Elem	Sr4077
Units	ppm
Avg	.2008394
Stddev	.0014665
%RSD	.7301632
#1	.1998487
#2	.2025241
#3	.2001455

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2602.595	65282.63	9338.805	3016.396	3455.787
Stddev	12.169	365.68	53.146	17.071	16.434
%RSD	.4675765	.5601540	.5690900	.5659553	.4755622
#1	2605.807	65529.16	9301.220	3028.204	3464.237
#2	2612.835	64862.48	9399.610	2996.822	3466.278
#3	2589.142	65456.24	9315.586	3024.163	3436.847

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-05 Acquired: 1/12/2025 11:21:36 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D38 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 11.76404	.0059717	F 57.79784	.0504141	.2968879	20.07593
Stddev	.02582	.0024092	.06385	.0035995	.0026441	.14664
%RSD	.2195246	40.34372	.1104758	7.139896	.8906093	.7304353
#1	11.79384	.0046637	57.86608	.0545705	.2997500	20.13763
#2	11.74817	.0087520	57.73954	.0483209	.2945363	19.90852
#3	11.75011	.0044995	57.78790	.0483511	.2963773	20.18163

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.122027	.0027755	.0675725	774.8662	.0322211	.0475070
Stddev	.010478	.0000814	.0002523	4.4752	.0002234	.0005340
%RSD	.9338239	2.934259	.3734277	.5775405	.6934284	1.124119
#1	1.123613	.0028516	.0676189	771.8348	.0322735	.0469293
#2	1.110846	.0026896	.0673003	772.7578	.0319762	.0476091
#3	1.131621	.0027855	.0677985	780.0061	.0324137	.0479827

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.21467	181.8971	10.58065	9.112780	.0441036	.4798371
Stddev	.08259	.9701	.08020	.026913	.0006299	.0015943
%RSD	.3557569	.5333194	.7579937	.2953317	1.428327	.3322609
#1	23.29111	182.3964	10.61235	9.124082	.0446479	.4816475
#2	23.12707	180.7790	10.48944	9.082059	.0442494	.4792213
#3	23.22584	182.5158	10.64015	9.132199	.0434136	.4786425

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8194505	.0425041	16.92901	6.483289	3.149339	.7456089
Stddev	.1335108	.0026570	.01854	.069512	.012954	.0053084
%RSD	16.29272	6.251189	.1094964	1.072171	.4113257	.7119608
#1	.7389666	.0394826	16.94697	6.489089	3.150758	.7477253
#2	.9735647	.0444760	16.93012	6.411059	3.135734	.7395687
#3	.7458204	.0435536	16.90994	6.549719	3.161525	.7495326

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-05 Acquired: 1/12/2025 11:21:36 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D38 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1177614	F 89.66820	F 11.72249	.6881663	.1587563	.0367369
Stddev	.0002914	.19427	.02058	.0005959	.0027866	.0017736
%RSD	.2474298	.2166495	.1755596	.0865878	1.755239	4.827799
#1	.1176709	89.85681	11.73133	.6875047	.1612636	.0359363
#2	.1175261	89.46873	11.69896	.6886607	.1557562	.0387696
#3	.1180873	89.67906	11.73717	.6883335	.1592490	.0355047

Elem	Sr4077
Units	ppm
Avg	.3864848
Stddev	.0024027
%RSD	.6216686
#1	.3876038
#2	.3837268
#3	.3881238

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2389.356	57087.51	8358.957	2642.461	3059.803
Stddev	2.618	145.34	27.827	2.617	3.878
%RSD	.1095514	.2545935	.3328961	.0990253	.1267559
#1	2386.972	56960.43	8340.764	2643.129	3060.165
#2	2392.157	57245.98	8345.118	2644.679	3063.487
#3	2388.939	57056.12	8390.990	2639.575	3055.756

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-06 Acquired: 1/12/2025 11:25:35 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D41 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3204521**	**-.024333**	**34.09884**	**.0449277**	**.0296061**	**28.48932**
Stddev	.0019110	.000431	.03061	.0000207	.0017792	.29196
%RSD	.5963304	1.769809	.0897827	.0461189	6.009563	1.024817
#1	.3217271	-.024084	34.09193	.0449123	.0315313	28.33838
#2	.3182549	-.024830	34.07227	.0449512	.0280224	28.30373
#3	.3213742	-.024084	34.13232	.0449195	.0292648	28.82586

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.221833**	**.0106198**	**.0281574**	**15.63700**	**.0550359**	**.0223225**
Stddev	.009411	.0002365	.0000624	.17673	.0003993	.0000825
%RSD	.7702115	2.226645	.2216162	1.130185	.7255551	.3694432
#1	1.222352	.0108480	.0281463	15.61064	.0554736	.0224163
#2	1.212173	.0106357	.0282245	15.47493	.0546915	.0222899
#3	1.230973	.0103759	.0281012	15.82543	.0549425	.0222613

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.715796**	**207.4658**	**26.56444**	**13.14485**	**.0217485**	**.1098903**
Stddev	.005047	1.9079	.08703	.09944	.0007621	.0003435
%RSD	.2941370	.9196428	.3276298	.7565120	3.503907	.3125864
#1	1.721448	206.4906	26.57515	13.07700	.0211478	.1095068
#2	1.711742	206.2426	26.64562	13.09855	.0226057	.1101697
#3	1.714197	209.6643	26.47254	13.25900	.0214919	.1099944

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3997984**	**.0420553**	**7.325021**	**4.065094**	**7.029757**	**.8305824**
Stddev	.1048032	.0026613	.032566	.036631	.013313	.0096190
%RSD	26.21402	6.328004	.4445847	.9011152	.1893805	1.158100
#1	.5135615	.0450101	7.316048	4.032047	7.033785	.8252265
#2	.3071793	.0398469	7.297881	4.058755	7.014896	.8248335
#3	.3786542	.0413091	7.361132	4.104482	7.040591	.8416871

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-06 Acquired: 1/12/2025 11:25:35 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D41 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1333479	F 22.72537	F 13.32814	.0089820	1.038781	.0326463
Stddev	.0004997	.04659	.03794	.0007966	.002553	.0004441
%RSD	.3747406	.2050206	.2846370	8.868646	.2457880	1.360490
#1	.1330967	22.69934	13.36661	.0081201	1.040085	.0322070
#2	.1330237	22.69761	13.32704	.0096910	1.040418	.0330951
#3	.1339234	22.77916	13.29076	.0091350	1.035839	.0326367

Elem	Sr4077
Units	ppm
Avg	.3151201
Stddev	.0029524
%RSD	.9369149
#1	.3133872
#2	.3134440
#3	.3185291

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2658.909	63327.79	8729.790	2981.471	3504.220
Stddev	3.920	238.94	47.168	15.315	5.548
%RSD	.1474182	.3773057	.5403095	.5136812	.1583160
#1	2656.545	63414.44	8713.962	2990.027	3503.259
#2	2663.434	63511.31	8692.573	2990.596	3510.185
#3	2656.749	63057.61	8782.837	2963.789	3499.215

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-07 Acquired: 1/12/2025 11:29:38 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D44 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 10.48601	.0231372	F 200.4580	.1560362	1.628582	7.343021
Stddev	.03911	.0015461	.3765	.0071335	.001834	.038066
%RSD	.3729827	6.682502	.1878003	4.571689	.1126246	.5184036
#1	10.45662	.0241799	200.1127	.1513506	1.627933	7.302811
#2	10.47100	.0213608	200.4021	.1642460	1.627161	7.378502
#3	10.53040	.0238708	200.8593	.1525122	1.630653	7.347748

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.813187	-.000974	.0598135	3.042695	.0133524	.0101676
Stddev	.045052	.000139	.0003753	.042329	.0004128	.0003926
%RSD	.7749957	14.31748	.6274644	1.391160	3.091428	3.861212
#1	5.845972	-.000828	.0595486	3.001339	.0132086	.0100833
#2	5.831772	-.001105	.0596488	3.085934	.0130308	.0098241
#3	5.761815	-.000988	.0602430	3.040813	.0138179	.0105956

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 43.82833	548.6042	1.691234	1.405460	.0242055	1.545902
Stddev	.03652	4.6265	.008027	.003927	.0006752	.004415
%RSD	.0833180	.8433248	.4746371	.2793960	2.789557	.2855641
#1	43.83681	548.4748	1.684155	1.405931	.0238719	1.548629
#2	43.85986	553.2941	1.699955	1.401318	.0237620	1.548268
#3	43.78832	544.0438	1.689591	1.409129	.0249826	1.540809

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6885281	.0625916	15.91469	14.69869	3.030369	2.197931
Stddev	.2380924	.0013528	.03629	.05544	.008254	.021376
%RSD	34.57991	2.161369	.2280135	.3771611	.2723754	.9725621
#1	.9334726	.0613519	15.89471	14.65254	3.022638	2.194901
#2	.6741742	.0623884	15.95658	14.76018	3.029407	2.220660
#3	.4579374	.0640346	15.89278	14.68333	3.039062	2.178231

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-07 Acquired: 1/12/2025 11:29:38 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D44 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8666060	F 132.5131	7.103602	.2534045	.0645422	.0040174
Stddev	.0025899	.5623	.005516	.0011829	.0002254	.0011657
%RSD	.2988587	.4243476	.0776520	.4667898	.3492881	29.01675
#1	.8639355	131.9686	7.108807	.2523304	.0647318	.0027996
#2	.8667754	132.4790	7.097820	.2546722	.0642929	.0051230
#3	.8691070	133.0917	7.104180	.2532107	.0646017	.0041297

Elem	Sr4077
Units	ppm
Avg	.4440843
Stddev	.0023242
%RSD	.5233760
#1	.4420568
#2	.4466209
#3	.4435752

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2421.706	60210.18	8268.573	2799.527	3551.466
Stddev	1.987	232.58	40.225	9.679	3.226
%RSD	.0820487	.3862805	.4864753	.3457511	.0908317
#1	2422.892	60160.20	8223.856	2810.536	3554.344
#2	2419.412	60006.65	8280.054	2792.351	3547.979
#3	2422.814	60463.68	8301.809	2795.695	3552.076

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-08 Acquired: 1/12/2025 11:33:45 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D47 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.097358**	**.0120960**	F **245.0855**	**.1796865**	**1.036860**	**11.97792**
Stddev	.020748	.0015839	.3310	.0030510	.002784	.02780
%RSD	.2562314	13.09464	.1350540	1.697954	.2684674	.2320595
#1	8.101264	.0105815	244.7158	.1762498	1.034834	12.00754
#2	8.074934	.0137413	245.3544	.1820761	1.035712	11.95241
#3	8.115875	.0119651	245.1862	.1807334	1.040034	11.97380

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.426656**	**-.000744**	**.3922202**	**5.272380**	**.0056926**	**.0535867**
Stddev	.002075	.000174	.0005323	.063232	.0002847	.0002321
%RSD	.1454773	23.40811	.1357100	1.199299	5.001240	.4330378
#1	1.424679	-.000842	.3917062	5.200099	.0060097	.0536783
#2	1.426471	-.000543	.3927690	5.317456	.0054589	.0537590
#3	1.428817	-.000847	.3921853	5.299584	.0056091	.0533228

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **71.87622**	**672.3564**	**13.62494**	**4.068893**	**.0316303**	**1.425460**
Stddev	.26037	2.3608	.02429	.003948	.0006371	.008848
%RSD	.3622482	.3511301	.1782458	.0970291	2.014287	.6206790
#1	72.15804	672.3927	13.60084	4.070799	.0322871	1.430235
#2	71.64462	669.9775	13.62458	4.071527	.0315888	1.415250
#3	71.82601	674.6988	13.64940	4.064354	.0310149	1.430894

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.083390**	**.0511814**	F **44.94419**	**14.42090**	**2.851622**	**2.706647**
Stddev	.123414	.0017267	.04053	.07812	.006502	.009123
%RSD	11.39146	3.373762	.0901722	.5417193	.2279984	.3370461
#1	1.119319	.0501780	44.98792	14.43583	2.852148	2.702370
#2	1.184852	.0501908	44.90790	14.33639	2.857844	2.700448
#3	.945998	.0531752	44.93675	14.49048	2.844873	2.717122

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-08 Acquired: 1/12/2025 11:33:45 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D47 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8578191	F 247.2500	8.413572	.3480783	.0816369	.0179228
Stddev	.0028944	.2366	.018997	.0012505	.0004899	.0006887
%RSD	.3374194	.0957026	.2257921	.3592548	.6001062	3.842359
#1	.8595341	247.0579	8.391971	.3467269	.0821993	.0182998
#2	.8544772	247.5143	8.421064	.3491944	.0813024	.0171280
#3	.8594458	247.1777	8.427681	.3483135	.0814092	.0183407

Elem	Sr4077
Units	ppm
Avg	.1775936
Stddev	.0003747
%RSD	.2110152
#1	.1778610
#2	.1771653
#3	.1777547

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2377.356	59669.72	8416.891	2774.574	3545.234
Stddev	3.317	219.16	40.547	11.240	5.596
%RSD	.1395447	.3672867	.4817300	.4051158	.1578558
#1	2375.012	59566.50	8385.864	2770.522	3549.146
#2	2381.152	59921.43	8462.769	2787.279	3538.824
#3	2375.904	59521.23	8402.039	2765.922	3547.731

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-09 Acquired: 1/12/2025 11:38:02 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D50 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.279443**	**.0006993**	F **443.6026**	**.1666459**	**.2688063**	**35.98429**
Stddev	.001879	.0021732	2.3610	.0032923	.0019871	.03516
%RSD	.1468812	310.7451	.5322298	1.975649	.7392185	.0977022
#1	1.281367	-.000755	441.0792	.1690205	.2688267	35.99670
#2	1.279349	-.000344	443.9705	.1628875	.2668091	36.01157
#3	1.277612	.003197	445.7580	.1680298	.2707831	35.94461

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.149605**	**.0011653**	**.1705228**	**15.64500**	**.0997835**	**.0532786**
Stddev	.006497	.0002057	.0005995	.04220	.0001924	.0005691
%RSD	.2062695	17.65426	.3515661	.2697639	.1928707	1.068210
#1	3.154515	.0009368	.1698841	15.68565	.1000035	.0526795
#2	3.152062	.0012232	.1706110	15.64794	.0996465	.0533444
#3	3.142238	.0013359	.1710733	15.60140	.0997005	.0538120

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.92977**	**532.1519**	**9.572317**	**18.80270**	**.0888359**	**1.262769**
Stddev	.08620	1.6067	.028175	.00934	.0013923	.003125
%RSD	.4325298	.3019249	.2943391	.0496586	1.567211	.2474820
#1	19.84587	532.5643	9.594107	18.79596	.0876391	1.264958
#2	19.92533	530.3792	9.582344	18.81336	.0885047	1.264159
#3	20.01810	533.5122	9.540500	18.79878	.0903639	1.259190

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.148053**	**.1080990**	**28.05404**	**6.936823**	**9.647341**	**2.177995**
Stddev	.042646	.0006419	.09577	.050487	.036604	.008306
%RSD	3.714606	.5938188	.3413931	.7278153	.3794207	.3813679
#1	1.196019	.1075031	28.06898	6.989581	9.613109	2.181158
#2	1.114420	.1080153	28.14146	6.888964	9.642986	2.168572
#3	1.133720	.1087787	27.95167	6.931923	9.685927	2.184256

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-09 Acquired: 1/12/2025 11:38:02 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D50 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4687760	F 119.0387	F 12.17478	.3940737	1.006559	.0615050
Stddev	.0016582	.3930	.02484	.0003950	.003516	.0002163
%RSD	.3537379	.3301726	.2040337	.1002478	.3493093	.3517405
#1	.4676447	118.6995	12.14637	.3941543	1.002775	.0617481
#2	.4680038	118.9472	12.19238	.3936445	1.007179	.0614330
#3	.4706795	119.4694	12.18559	.3944222	1.009724	.0613338

Elem	Sr4077
Units	ppm
Avg	.2222218
Stddev	.0000980
%RSD	.0440914
#1	.2223307
#2	.2221940
#3	.2221407

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2505.861	62907.79	8849.664	2884.246	3423.873
Stddev	4.577	174.84	29.652	5.775	5.865
%RSD	.1826512	.2779254	.3350687	.2002316	.1712834
#1	2506.874	62714.86	8870.639	2880.956	3429.130
#2	2509.847	63055.76	8862.615	2880.868	3424.942
#3	2500.863	62952.74	8815.740	2890.915	3417.548

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-10 Acquired: 1/12/2025 11:42:18 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D53 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4012915**	**-.009580**	**28.66512**	**.0902459**	**.0450176**	**84.23335**
Stddev	.0031627	.002141	.01650	.0005716	.0014218	.10956
%RSD	.7881275	22.35175	.0575608	.6333315	3.158223	.1300690
#1	.3989844	-.007144	28.64783	.0897106	.0454382	84.27229
#2	.4048967	-.010431	28.68070	.0908478	.0434330	84.10964
#3	.3999933	-.011164	28.66682	.0901793	.0461816	84.31813

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.732186**	**.0040699**	**.1637025**	**24.37958**	**.0884517**	**.0939505**
Stddev	.002066	.0002660	.0000983	.05890	.0000164	.0002484
%RSD	.1192684	6.535796	.0600544	.2416149	.0185231	.2644347
#1	1.734571	.0040904	.1636990	24.43831	.0884705	.0937557
#2	1.730972	.0043250	.1636060	24.32050	.0884406	.0942302
#3	1.731015	.0037942	.1638025	24.37992	.0884441	.0938655

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.500089**	**431.6054**	**14.59023**	**51.32856**	**.0789192**	**.0738066**
Stddev	.011820	4.1106	.01351	.08234	.0006813	.0006517
%RSD	.2626561	.9524088	.0925667	.1604139	.8632667	.8830433
#1	4.501277	427.3589	14.60500	51.37367	.0784308	.0734195
#2	4.487719	431.8920	14.57851	51.23352	.0796975	.0734413
#3	4.511269	435.5652	14.58718	51.37848	.0786292	.0745591

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.544600**	**.2662718**	**28.82788**	**13.18063**	F **17.15519**	**1.758336**
Stddev	.108803	.0009855	.35640	.05765	.00832	.019833
%RSD	7.044066	.3701076	1.236290	.4373584	.0485010	1.127928
#1	1.601675	.2666607	28.42442	13.20169	17.16468	1.737842
#2	1.419135	.2651512	29.09985	13.11541	17.14916	1.759733
#3	1.612989	.2670035	28.95938	13.22478	17.15172	1.777434

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-10 Acquired: 1/12/2025 11:42:18 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D53 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1070336	F 60.85307	F 19.73910	.0260630	2.062677	.1586710
Stddev	.0006779	.06781	.01902	.0002067	.001156	.0010639
%RSD	.6333481	.1114381	.0963602	.7929963	.0560516	.6704830
#1	.1067761	60.83643	19.75865	.0260982	2.061858	.1591096
#2	.1078025	60.79513	19.72066	.0258410	2.063999	.1594455
#3	.1065222	60.92766	19.73798	.0262499	2.062173	.1574580

Elem	Sr4077
Units	ppm
Avg	.3467666
Stddev	.0005995
%RSD	.1728799
#1	.3471108
#2	.3460744
#3	.3471146

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2680.559	65605.20	9482.024	3070.356	3355.985
Stddev	3.303	70.72	12.645	3.492	2.645
%RSD	.1232119	.1078015	.1333582	.1137221	.0788120
#1	2677.931	65642.99	9494.826	3068.850	3352.985
#2	2684.266	65649.00	9481.704	3074.349	3357.980
#3	2679.478	65523.61	9469.542	3067.871	3356.990

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-11 Acquired: 1/12/2025 11:46:27 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D56 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 17.22745	.0195562	F 617.8292	.3230725	3.133033	23.44653
Stddev	.08300	.0004664	2.9203	.0016152	.018395	.05566
%RSD	.4818182	2.384808	.4726717	.4999630	.5871190	.2374116
#1	17.13435	.0193159	614.4681	.3234669	3.113403	23.41144
#2	17.25427	.0192591	619.2750	.3244541	3.135821	23.51071
#3	17.29373	.0200938	619.7446	.3212966	3.149874	23.41744

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.494115	.0005710	.1131108	12.76819	.0508763	.0292233
Stddev	.038888	.0005373	.0007662	.14708	.0010710	.0007745
%RSD	.7078043	94.10138	.6773837	1.151899	2.105049	2.650362
#1	5.482780	.0009400	.1125401	12.64368	.0497931	.0284841
#2	5.537410	-.000045	.1128107	12.93047	.0509013	.0291571
#3	5.462153	.000818	.1139816	12.73042	.0519346	.0300288

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 63.21831	F 932.4631	11.02305	5.521495	.0477433	1.914550
Stddev	.09303	12.5504	.02610	.022786	.0006367	.002911
%RSD	.1471500	1.345945	.2367691	.4126811	1.333534	.1520711
#1	63.32104	922.7138	11.01540	5.495216	.0471984	1.911340
#2	63.13977	946.6236	11.05211	5.533506	.0475884	1.915289
#3	63.19413	928.0520	11.00162	5.535763	.0484431	1.917020

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.674400	.1338449	27.43402	12.82792	5.629886	3.713152
Stddev	.137213	.0021344	.17313	.03664	.011557	.063315
%RSD	8.194743	1.594648	.6310628	.2856323	.2052771	1.705149
#1	1.595198	.1320378	27.54625	12.84203	5.618728	3.666363
#2	1.832840	.1332972	27.52118	12.85540	5.629125	3.785197
#3	1.595163	.1361997	27.23464	12.78632	5.641804	3.687896

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-11 Acquired: 1/12/2025 11:46:27 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D56 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.353391**	F **178.7205**	F **11.41852**	**.4671969**	**.4074350**	**.0180758**
Stddev	.018691	.7097	.03373	.0021137	.0006955	.0002806
%RSD	.5573654	.3971272	.2953727	.4524300	.1707081	1.552293
#1	3.334476	177.9249	11.45337	.4654346	.4079094	.0177644
#2	3.353847	178.9478	11.38604	.4695404	.4077591	.0183088
#3	3.371849	179.2887	11.41613	.4666157	.4066366	.0181543

Elem	Sr4077
Units	ppm
Avg	**2.042402**
Stddev	.022740
%RSD	1.113400
#1	2.032783
#2	2.068371
#3	2.026053

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2326.753**	**61541.02**	**8709.248**	**2766.077**	**3458.090**
Stddev	11.432	103.34	24.465	13.695	16.805
%RSD	.4913145	.1679284	.2809132	.4951050	.4859645
#1	2339.436	61618.61	8689.832	2759.553	3477.491
#2	2323.581	61423.70	8736.728	2756.863	3448.713
#3	2317.242	61580.74	8701.185	2781.814	3448.066

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-12 Acquired: 1/12/2025 11:50:59 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D59 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2670411	-.009577	20.90179	.0530578	.0377137	47.81302
Stddev	.0018866	.000570	.00647	.0019822	.0021061	.22529
%RSD	.7065005	5.952718	.0309737	3.735850	5.584455	.4711966
#1	.2692005	-.008921	20.89598	.0546457	.0400438	47.65798
#2	.2657125	-.009945	20.90877	.0536915	.0371517	48.07145
#3	.2662101	-.009866	20.90063	.0508363	.0359456	47.70963

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.555072	.0091778	.0521962	14.67316	.0563638	.0546246
Stddev	.007083	.0001502	.0000845	.06676	.0002069	.0002712
%RSD	.4554707	1.637134	.1618603	.4550034	.3670538	.4964044
#1	1.549841	.0092784	.0521353	14.65981	.0562744	.0548527
#2	1.563132	.0090051	.0521607	14.74559	.0562167	.0546963
#3	1.552242	.0092498	.0522927	14.61408	.0566004	.0543248

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.516775	258.9263	18.05646	27.07622	.0467687	.0717709
Stddev	.006348	.9593	.05558	.13012	.0003177	.0005969
%RSD	.2522465	.3704995	.3078240	.4805673	.6793013	.8316933
#1	2.516333	258.2768	18.00356	26.98873	.0465258	.0711099
#2	2.523333	260.0282	18.11438	27.22575	.0471282	.0722706
#3	2.510660	258.4739	18.05145	27.01418	.0466522	.0719322

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6212028	.1205279	11.87540	7.029438	8.129598	1.051862
Stddev	.0748156	.0023425	.04243	.045501	.034637	.006234
%RSD	12.04368	1.943557	.3572554	.6472932	.4260572	.5926482
#1	.5650600	.1178384	11.84964	7.078765	8.128154	1.048378
#2	.7061369	.1221224	11.92437	7.020442	8.095705	1.059059
#3	.5924114	.1216228	11.85220	6.989106	8.164934	1.048148

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-12 Acquired: 1/12/2025 11:50:59 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D59 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2065734	F 24.88839	F 15.63034	.0203209	1.668191	.0923110
Stddev	.0006349	.03117	.02956	.0009442	.002735	.0004997
%RSD	.3073274	.1252334	.1891438	4.646306	.1639536	.5412892
#1	.2072526	24.89227	15.65575	.0207625	1.670882	.0917873
#2	.2059950	24.85546	15.59790	.0209634	1.665414	.0927825
#3	.2064726	24.91743	15.63738	.0192369	1.668278	.0923633

Elem	Sr4077
Units	ppm
Avg	.1519799
Stddev	.0005430
%RSD	.3572777
#1	.1516791
#2	.1526067
#3	.1516539

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2765.475	65398.50	9271.173	3067.685	3497.979
Stddev	4.225	70.19	28.679	16.134	4.650
%RSD	.1527733	.1073238	.3093329	.5259312	.1329376
#1	2769.299	65463.98	9258.057	3078.361	3503.188
#2	2766.187	65324.40	9304.064	3049.125	3496.503
#3	2760.939	65407.10	9251.397	3075.570	3494.246

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-13 Acquired: 1/12/2025 11:54:52 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D62 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1951188**	**-.003660**	**9.397806**	**.0367183**	**.0164058**	**33.76718**
Stddev	.0050777	.001417	.011624	.0032323	.0011684	.21553
%RSD	2.602371	38.71574	.1236885	8.802857	7.121721	.6382877
#1	.2009685	-.004112	9.404619	.0340697	.0161180	33.96932
#2	.1925394	-.002072	9.384384	.0357652	.0176912	33.79185
#3	.1918486	-.004796	9.404414	.0403199	.0154083	33.54037

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9402574**	**.0033512**	**.0241284**	**14.05110**	**.0364289**	**.0310793**
Stddev	.0061470	.0001028	.0001178	.08487	.0003255	.0001349
%RSD	.6537595	3.066071	.4881610	.6040013	.8936073	.4339115
#1	.9453697	.0033839	.0242513	14.09841	.0364183	.0312271
#2	.9419656	.0032361	.0240165	14.10177	.0367596	.0309629
#3	.9334370	.0034337	.0241173	13.95312	.0361088	.0310478

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.509009**	**176.5813**	**7.364594**	**20.85543**	**.0292722**	**.0294984**
Stddev	.003413	1.0523	.036101	.14696	.0002287	.0002040
%RSD	.2261567	.5959241	.4901963	.7046558	.7813285	.6916283
#1	1.512863	177.4703	7.385074	20.98243	.0291993	.0293021
#2	1.507797	176.8541	7.385798	20.88940	.0290889	.0294839
#3	1.506368	175.4195	7.322910	20.69446	.0295285	.0297093

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2005154**	**.0934956**	**6.869267**	**5.217107**	**6.419168**	**.7083323**
Stddev	.0997077	.0021147	.037329	.053360	.008698	.0073751
%RSD	49.72571	2.261805	.5434262	1.022797	.1355016	1.041190
#1	.0942319	.0949553	6.837093	5.253088	6.422062	.7145666
#2	.2153234	.0944610	6.910195	5.155799	6.409391	.7102394
#3	.2919910	.0910705	6.860513	5.242434	6.426049	.7001910

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-13 Acquired: 1/12/2025 11:54:52 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D62 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1237926	F 12.10174	F 11.00264	.0074548	.9471949	.0658285
Stddev	.0006626	.04069	.01325	.0016409	.0028638	.0012750
%RSD	.5352170	.3362492	.1204307	22.01105	.3023419	1.936864
#1	.1234889	12.14396	10.99405	.0055882	.9439212	.0660516
#2	.1233363	12.06277	11.01790	.0086695	.9492363	.0669773
#3	.1245525	12.09848	10.99598	.0081068	.9484271	.0644567

Elem	Sr4077
Units	ppm
Avg	.1039066
Stddev	.0008331
%RSD	.8017488
#1	.1048346
#2	.1036619
#3	.1032233

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2604.421	63505.92	8655.570	2941.706	3450.449
Stddev	1.434	201.19	43.926	16.677	3.173
%RSD	.0550677	.3168019	.5074876	.5669133	.0919487
#1	2602.774	63534.62	8706.145	2949.009	3446.791
#2	2605.099	63291.92	8633.619	2922.623	3452.097
#3	2605.391	63691.21	8626.947	2953.485	3452.458

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-14 Acquired: 1/12/2025 11:58:47 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D65 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2572817**	**-.067454**	**19.31575**	**.0484829**	**.0242513**	**42.28198**
Stddev	.0055299	.002179	.04274	.0047637	.0020911	.17407
%RSD	2.149363	3.230916	.2212957	9.825523	8.622453	.4116991
#1	.2520147	-.067582	19.26658	.0522967	.0232343	42.33021
#2	.2567889	-.065213	19.33659	.0431432	.0228633	42.08888
#3	.2630415	-.069566	19.34408	.0500089	.0266563	42.42686

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.597941**	**.0130073**	**.1396605**	**80.13340**	**.0717550**	**.0692632**
Stddev	.009604	.0000864	.0005266	.28541	.0001952	.0004890
%RSD	.6010183	.6640640	.3770524	.3561655	.2720457	.7060032
#1	1.600805	.0130414	.1390547	80.26670	.0716490	.0689521
#2	1.587231	.0129090	.1399184	79.80573	.0716357	.0698268
#3	1.605787	.0130713	.1400084	80.32776	.0719802	.0690107

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.409492**	**231.2960**	F **103.4747**	**20.96464**	**.0883886**	**.0996588**
Stddev	.004695	.7929	.3692	.08242	.0004399	.0002636
%RSD	.1948650	.3428080	.3567814	.3931214	.4976740	.2645426
#1	2.410984	231.5236	103.8961	21.01117	.0878818	.0998986
#2	2.404232	230.4142	103.2082	20.86948	.0886122	.0993765
#3	2.413260	231.9503	103.3199	21.01326	.0886718	.0997014

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1968852**	**.0643278**	**22.12246**	**8.923214**	**5.631482**	**.9264348**
Stddev	.2841541	.0024084	.08545	.109866	.014986	.0028783
%RSD	144.3248	3.743891	.3862685	1.231236	.2661082	.3106859
#1	.1017383	.0657057	22.20899	9.046370	5.616190	.9274280
#2	-.027486	.0657309	22.03813	8.835274	5.632115	.9231914
#3	.516403	.0615469	22.12026	8.887998	5.646142	.9286849

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-14 Acquired: 1/12/2025 11:58:47 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D65 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2662651	F 132.5508	F 15.62231	.0058155	.7335504	.0825715
Stddev	.0010434	.3819	.06411	.0004026	.0024890	.0003664
%RSD	.3918772	.2881177	.4103873	6.922915	.3393090	.4437803
#1	.2652268	132.1149	15.66366	.0056235	.7359953	.0829519
#2	.2673135	132.8265	15.54846	.0062782	.7310195	.0825417
#3	.2662551	132.7110	15.65482	.0055449	.7336362	.0822208

Elem	Sr4077
Units	ppm
Avg	.1926220
Stddev	.0006716
%RSD	.3486490
#1	.1927898
#2	.1918824
#3	.1931937

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2633.920	63432.14	8711.372	2976.197	3386.111
Stddev	4.122	174.92	9.556	4.531	2.063
%RSD	.1565039	.2757580	.1096995	.1522365	.0609216
#1	2635.515	63301.35	8700.613	2971.819	3388.493
#2	2629.238	63630.83	8718.875	2975.905	3384.947
#3	2637.006	63364.23	8714.628	2980.866	3384.893

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-15 Acquired: 1/12/2025 12:02:48 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D68 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1448267	-.044601	39.42626	.0616456	.0613842	68.66032
Stddev	.0010794	.000549	.07325	.0080452	.0010844	.20562
%RSD	.7452826	1.230008	.1857843	13.05068	1.766533	.2994736
#1	.1458405	-.045044	39.46036	.0590207	.0607388	68.72647
#2	.1436919	-.043988	39.34218	.0706753	.0626361	68.82472
#3	.1449475	-.044773	39.47625	.0552406	.0607776	68.42977

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4495460	.0603609	.3874702	103.5527	.0654410	.2312652
Stddev	.0028872	.0001104	.0012239	.2963	.0005103	.0007583
%RSD	.6422402	.1828704	.3158700	.2861390	.7798264	.3279124
#1	.4515735	.0604703	.3882988	103.6825	.0659281	.2309078
#2	.4508242	.0603628	.3860645	103.7620	.0654846	.2307516
#3	.4462404	.0602495	.3880475	103.2137	.0649102	.2321362

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.813605	338.0205	F 71.91597	52.12029	.1467528	.0643327
Stddev	.004015	.7977	.42443	.12846	.0005878	.0012311
%RSD	.0513834	.2359923	.5901747	.2464645	.4005086	1.913645
#1	7.809561	338.1365	72.16971	52.06047	.1472764	.0642623
#2	7.813664	338.7538	71.42598	52.26775	.1461170	.0655975
#3	7.817590	337.1711	72.15221	52.03265	.1468650	.0631383

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5976848	.0957647	F 41.15702	6.297168	6.908201	1.357916
Stddev	.1177057	.0018088	.44936	.084821	.023728	.000581
%RSD	19.69361	1.888785	1.091808	1.346971	.3434803	.0427768
#1	.4918580	.0938022	40.90961	6.338852	6.933573	1.358245
#2	.7244572	.0973649	41.67571	6.353083	6.886558	1.358258
#3	.5767391	.0961271	40.88574	6.199571	6.904471	1.357245

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-15 Acquired: 1/12/2025 12:02:48 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D68 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0485962	F 85.46251	F 27.55187	.0121851	1.191718	.0967405
Stddev	.0003492	.16875	.06214	.0012877	.007095	.0007706
%RSD	.7185483	.1974579	.2255539	10.56750	.5953966	.7965823
#1	.0482781	85.59034	27.61732	.0131099	1.196870	.0973515
#2	.0489699	85.27123	27.54463	.0127311	1.194658	.0969952
#3	.0485407	85.52596	27.49367	.0107145	1.183625	.0958747

Elem	Sr4077
Units	ppm
Avg	.7592237
Stddev	.0021345
%RSD	.2811481
#1	.7597540
#2	.7610430
#3	.7568739

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2964.735	69508.90	10016.94	3266.869	3336.186
Stddev	10.112	92.15	10.66	15.935	11.138
%RSD	.3410883	.1325769	.1064224	.4877661	.3338627
#1	2959.512	69560.64	10017.01	3272.752	3328.277
#2	2976.391	69402.51	10027.57	3248.829	3348.924
#3	2958.302	69563.56	10006.25	3279.026	3331.358

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-16 Acquired: 1/12/2025 12:07:05 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D71 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6337564**	**-.022379**	**23.61509**	**.0938240**	**.0500416**	**35.07287**
Stddev	.0032122	.001839	.00551	.0030820	.0003812	.07806
%RSD	.5068461	8.217835	.0233397	3.284927	.7616808	.2225526
#1	.6306544	-.020690	23.61326	.0973209	.0504014	35.13434
#2	.6335464	-.022108	23.61072	.0926480	.0496422	35.09923
#3	.6370684	-.024338	23.62128	.0915031	.0500811	34.98505

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.224731**	**.0062501**	**.1120636**	**86.25944**	**.0539423**	**.0800295**
Stddev	.001619	.0001575	.0001388	.14841	.0006565	.0002295
%RSD	.1321860	2.519649	.1238988	.1720510	1.217011	.2868034
#1	1.225634	.0061654	.1122052	86.28832	.0537578	.0801103
#2	1.225697	.0061531	.1120579	86.39129	.0546713	.0797705
#3	1.222862	.0064318	.1119277	86.09872	.0533978	.0802077

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.081840**	**444.7530**	F **34.62042**	**16.53600**	**.0732012**	**.1503946**
Stddev	.019197	6.2461	.35240	.00960	.0008586	.0012383
%RSD	.2710706	1.404391	1.017902	.0580633	1.172967	.8233773
#1	7.095809	437.5827	34.21473	16.53242	.0722251	.1489724
#2	7.059950	449.0111	34.85057	16.54687	.0738396	.1512340
#3	7.089760	447.6653	34.79597	16.52869	.0735389	.1509774

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6201822**	**.0413476**	**23.34234**	**7.583882**	**6.197371**	**1.793157**
Stddev	.2350560	.0011926	.02246	.030318	.009795	.030180
%RSD	37.90113	2.884365	.0962269	.3997676	.1580473	1.683092
#1	.7316731	.0424492	23.33123	7.602867	6.186800	1.758541
#2	.3501270	.0400811	23.32760	7.599862	6.199172	1.813949
#3	.7787465	.0415125	23.36819	7.548917	6.206140	1.806981

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-16 Acquired: 1/12/2025 12:07:05 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D71 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2529597	F 297.3196	F 15.15892	.0098694	.6380974	.0605959
Stddev	.0001452	.1720	.02992	.0003195	.0006775	.0016260
%RSD	.0573795	.0578381	.1973460	3.236858	.1061676	2.683343
#1	.2528684	297.1241	15.12667	.0099936	.6377345	.0609815
#2	.2528837	297.3876	15.16434	.0095066	.6376786	.0619944
#3	.2531271	297.4472	15.18576	.0101082	.6388789	.0588118

Elem	Sr4077
Units	ppm
Avg	.1676912
Stddev	.0007139
%RSD	.4257214
#1	.1684678
#2	.1675423
#3	.1670634

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2655.672	62802.88	8926.274	2955.892	3470.505
Stddev	2.264	244.00	19.219	10.851	5.128
%RSD	.0852651	.3885206	.2153047	.3670921	.1477668
#1	2653.092	62904.89	8948.152	2956.333	3464.597
#2	2657.327	62524.43	8912.114	2944.828	3473.806
#3	2656.599	62979.32	8918.556	2966.516	3473.111

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-17 Acquired: 1/12/2025 12:11:14 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D74 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6060685**	**-.019502**	**25.00393**	**.0782695**	**.0588009**	**21.17850**
Stddev	.0030906	.002161	.03935	.0038755	.0007786	.11153
%RSD	.5099386	11.08057	.1573855	4.951463	1.324063	.5266346
#1	.6044554	-.021485	25.01545	.0745948	.0590484	21.05765
#2	.6041182	-.019822	24.96010	.0778950	.0579287	21.20037
#3	.6096319	-.017199	25.03624	.0823186	.0594257	21.27748

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.143240**	**.0060856**	**.0924685**	**86.99135**	**.0429676**	**.0523909**
Stddev	.003212	.0002916	.0002044	.27849	.0001073	.0002575
%RSD	.2809906	4.791802	.2210018	.3201405	.2497728	.4914500
#1	1.139865	.0063884	.0926903	86.69388	.0430273	.0526429
#2	1.143597	.0058067	.0922878	87.03430	.0430317	.0524016
#3	1.146260	.0060618	.0924274	87.24589	.0428437	.0521282

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.785468**	**373.7609**	**27.73081**	**10.71113**	**.0541733**	**.1591661**
Stddev	.006561	1.6771	.04937	.05964	.0004930	.0005334
%RSD	.1370992	.4487083	.1780346	.5568170	.9100516	.3351412
#1	4.784136	372.1061	27.68107	10.69401	.0547332	.1596794
#2	4.792592	373.7172	27.77980	10.66192	.0538040	.1592043
#3	4.779675	375.4595	27.73158	10.77746	.0539828	.1586146

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7295100**	**.0379017**	**20.68856**	**7.349074**	**5.764888**	**1.501281**
Stddev	.0830219	.0012380	.02455	.048833	.000626	.013752
%RSD	11.38050	3.266271	.1186752	.6644840	.0108667	.9159860
#1	.6381920	.0384285	20.69334	7.292880	5.765183	1.487168
#2	.7499026	.0364874	20.66196	7.381222	5.765312	1.502037
#3	.8004355	.0387891	20.71036	7.373119	5.764169	1.514640

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-17 Acquired: 1/12/2025 12:11:14 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D74 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2450170	F 235.6601	F 12.95967	.0079716	.5779275	.0346770
Stddev	.0004561	.4750	.09167	.0005983	.0037469	.0006365
%RSD	.1861558	.2015633	.7073331	7.505081	.6483403	1.835469
#1	.2453264	235.8059	13.05119	.0083141	.5813088	.0352550
#2	.2452314	235.1292	12.95998	.0083198	.5785744	.0339949
#3	.2444932	236.0451	12.86785	.0072807	.5738991	.0347811

Elem	Sr4077
Units	ppm
Avg	.1764840
Stddev	.0010452
%RSD	.5922139
#1	.1753898
#2	.1765902
#3	.1774720

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2549.185	61862.31	8608.637	2900.528	3412.362
Stddev	2.804	29.22	58.906	4.584	4.638
%RSD	.1099931	.0472318	.6842644	.1580540	.1359218
#1	2548.029	61889.23	8546.466	2895.333	3407.063
#2	2552.382	61866.47	8615.827	2902.244	3415.685
#3	2547.144	61831.24	8663.617	2904.006	3414.338

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-18 Acquired: 1/12/2025 12:15:15 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D74D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6025531**	**-.016803**	**24.78173**	**.0760972**	**.0613662**	**21.00068**
Stddev	.0051732	.000799	.04675	.0021657	.0006234	.14289
%RSD	.8585467	4.754871	.1886584	2.845932	1.015925	.6804067
#1	.5991607	-.017720	24.78287	.0748342	.0619195	20.97803
#2	.5999913	-.016429	24.73441	.0785978	.0614885	21.15354
#3	.6085073	-.016260	24.82790	.0748595	.0606908	20.87046

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.139422**	**.0058743**	**.0915591**	**86.21568**	**.0424434**	**.0516969**
Stddev	.007347	.0000519	.0004630	.39813	.0002644	.0000829
%RSD	.6448442	.8828546	.5056637	.4617808	.6229190	.1602872
#1	1.142532	.0058264	.0914301	86.31321	.0421507	.0517864
#2	1.144703	.0058671	.0911742	86.55599	.0425147	.0516229
#3	1.131031	.0059294	.0920729	85.77786	.0426649	.0516813

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.748396**	**370.7484**	**27.36382**	**10.56487**	**.0535904**	**.1567042**
Stddev	.006085	1.9932	.06089	.04713	.0005135	.0012225
%RSD	.1281573	.5376079	.2225132	.4460629	.9581452	.7801121
#1	4.746766	370.7005	27.43362	10.57757	.0535614	.1571947
#2	4.755130	372.7652	27.33623	10.60434	.0530921	.1576052
#3	4.743291	368.7797	27.32161	10.51269	.0541178	.1553126

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5281866**	**.0353600**	**20.64982**	**7.283288**	**5.662027**	**1.498217**
Stddev	.1448646	.0022550	.07997	.109971	.023519	.009193
%RSD	27.42678	6.377355	.3872611	1.509905	.4153734	.6135831
#1	.5296813	.0338178	20.64244	7.349613	5.657040	1.496726
#2	.3825804	.0343140	20.73323	7.343902	5.641403	1.508064
#3	.6722980	.0379480	20.57380	7.156347	5.687640	1.489861

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-18 Acquired: 1/12/2025 12:15:15 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D74D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2451227	F 230.9329	F 12.83749	.0073852	.5669793	.0331280
Stddev	.0017842	1.2317	.02025	.0006431	.0028973	.0006384
%RSD	.7278809	.5333621	.1577174	8.708596	.5110036	1.927025
#1	.2437039	230.7887	12.84267	.0074868	.5693223	.0327743
#2	.2445384	229.7796	12.85464	.0079714	.5678759	.0327446
#3	.2471258	232.2303	12.81516	.0066972	.5637397	.0338649

Elem	Sr4077
Units	ppm
Avg	.1788522
Stddev	.0011490
%RSD	.6424261
#1	.1785022
#2	.1801355
#3	.1779190

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2575.050	62330.60	8723.201	2906.103	3462.924
Stddev	8.063	227.54	3.280	16.904	8.118
%RSD	.3131066	.3650508	.0376064	.5816579	.2344120
#1	2581.511	62220.82	8719.417	2903.018	3469.139
#2	2577.625	62178.76	8724.930	2890.954	3465.893
#3	2566.015	62592.21	8725.254	2924.336	3453.740

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-17LX5 Acquired: 1/12/2025 12:19:16 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D74L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1181299**	**-.004773**	**5.077038**	**.0166107**	**.0108941**	**4.254944**
Stddev	.0014806	.000864	.012074	.0008670	.0012936	.066345
%RSD	1.253346	18.11118	.2378174	5.219453	11.87472	1.559253
#1	.1167761	-.003850	5.069243	.0176030	.0115148	4.181328
#2	.1179026	-.004904	5.070925	.0162295	.0117603	4.310115
#3	.1197110	-.005564	5.090946	.0159997	.0094070	4.273389

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2260518**	**.0012865**	**.0185855**	**17.73477**	**.0088930**	**.0106211**
Stddev	.0040123	.0000585	.0000665	.29787	.0002216	.0000191
%RSD	1.774936	4.548149	.3578684	1.679577	2.492046	.1796056
#1	.2215257	.0013173	.0186509	17.41007	.0088374	.0106255
#2	.2291716	.0013232	.0185179	17.99537	.0091371	.0106003
#3	.2274581	.0012191	.0185878	17.79888	.0087045	.0106377

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9845632**	**76.90389**	**5.680701**	**2.195015**	**.0111598**	**.0322923**
Stddev	.0105629	1.21775	.089403	.011150	.0001588	.0005110
%RSD	1.072854	1.583473	1.573808	.5079627	1.422726	1.582460
#1	.9727714	75.51783	5.584280	2.185689	.0112896	.0317045
#2	.9931593	77.80199	5.760852	2.191991	.0112070	.0326304
#3	.9877587	77.39184	5.696972	2.207365	.0109828	.0325421

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3111392**	**.0050510**	**4.858415**	**1.543274**	**1.141192**	**.3054690**
Stddev	.2319554	.0013035	.093211	.085706	.005733	.0057181
%RSD	74.55037	25.80636	1.918550	5.553529	.5023397	1.871907
#1	.0871956	.0049595	4.752332	1.444674	1.136619	.2988839
#2	.2958700	.0037956	4.927212	1.585219	1.139333	.3091789
#3	.5503520	.0063977	4.895699	1.599930	1.147623	.3083442

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-17LX5 Acquired: 1/12/2025 12:19:16 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D74L Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0494713	F 47.30822	2.665024	.0001386	.1183259	.0052508
Stddev	.0002317	.14472	.008838	.0007980	.0003197	.0016929
%RSD	.4683266	.3059150	.3316411	575.7635	.2701852	32.24192
#1	.0492274	47.21923	2.654833	-.000565	.1180271	.0072004
#2	.0496884	47.23021	2.670580	-.000026	.1186631	.0043999
#3	.0494983	47.47521	2.669661	.001006	.1182875	.0041520

Elem	Sr4077
Units	ppm
Avg	.0358544
Stddev	.0004405
%RSD	1.228449
#1	.0353492
#2	.0361575
#3	.0360566

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2620.663	61981.46	8469.985	2929.391	3636.659
Stddev	1.697	853.32	39.360	33.997	4.236
%RSD	.0647729	1.376734	.4647011	1.160551	.1164864
#1	2622.612	62966.66	8515.070	2968.641	3638.585
#2	2619.511	61475.34	8452.413	2909.154	3639.589
#3	2619.865	61502.38	8442.471	2910.377	3631.801

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-19 Acquired: 1/12/2025 12:23:16 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D74S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6534412**	**.0783348**	**24.31051**	**.2357976**	**.2126826**	**23.80149**
Stddev	.0048312	.0028226	.18351	.0024512	.0050718	.08772
%RSD	.7393499	3.603215	.7548409	1.039542	2.384668	.3685608
#1	.6511124	.0785691	24.24263	.2379844	.2110181	23.70199
#2	.6502154	.0754024	24.17061	.2331479	.2086521	23.83480
#3	.6589957	.0810329	24.51828	.2362605	.2183774	23.86768

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.585883**	**.0991952**	**.1800447**	**85.22374**	**.4321743**	**.9621546**
Stddev	.032865	.0002539	.0012841	.49502	.0026952	.0067441
%RSD	.7166491	.2560000	.7132087	.5808443	.6236313	.7009371
#1	4.552185	.0989140	.1795665	84.65912	.4290669	.9582464
#2	4.617846	.0992638	.1790683	85.58315	.4338760	.9582753
#3	4.587618	.0994078	.1814993	85.42895	.4335800	.9699420

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.124478**	**366.5397**	**28.02378**	**10.40744**	**.9700648**	**.2238385**
Stddev	.007467	1.9420	.18301	.05079	.0063192	.0012579
%RSD	.1457137	.5298320	.6530680	.4880111	.6514237	.5619834
#1	5.119933	364.3073	28.01091	10.35007	.9679458	.2223899
#2	5.120406	367.4725	28.21290	10.42559	.9650773	.2246556
#3	5.133096	367.8395	27.84755	10.44666	.9771712	.2244700

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6515945**	**.9805087**	**21.19589**	**7.202171**	**5.617937**	**1.479104**
Stddev	.3027189	.0046460	.08960	.046443	.044376	.007503
%RSD	46.45817	.4738326	.4227424	.6448432	.7899063	.5072713
#1	.8104497	.9751603	21.10420	7.148658	5.600172	1.470461
#2	.8418194	.9828206	21.20021	7.225895	5.585195	1.482907
#3	.3025144	.9835451	21.28325	7.231961	5.668443	1.483945

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-19 Acquired: 1/12/2025 12:23:16 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D74S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2402392	F 226.7301	F 12.88521	.0076128	.5665505	.0336911
Stddev	.0023167	1.9373	.06021	.0010253	.0029541	.0017337
%RSD	.9643484	.8544694	.4672927	13.46843	.5214169	5.145973
#1	.2396437	226.3569	12.82150	.0064709	.5632814	.0318433
#2	.2382784	225.0066	12.94117	.0084545	.5690284	.0339477
#3	.2427956	228.8269	12.89295	.0079132	.5673417	.0352822

Elem	Sr4077
Units	ppm
Avg	.1733611
Stddev	.0007870
%RSD	.4539835
#1	.1725762
#2	.1733569
#3	.1741503

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2575.808	61958.10	8589.301	2877.446	3473.869
Stddev	20.703	424.06	32.980	16.631	24.845
%RSD	.8037338	.6844377	.3839664	.5779711	.7151840
#1	2585.059	62446.96	8626.149	2893.836	3484.983
#2	2590.271	61738.05	8579.203	2877.917	3491.217
#3	2552.092	61689.29	8562.550	2860.585	3445.408

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5393-01RE Acquired: 1/12/2025 12:27:14 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D28 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0124737**	**-.025409**	**.6521784**	**.0034406**	**-.002873**	**25.92797**
Stddev	.0007481	.003322	.0020548	.0011993	.001718	.11106
%RSD	5.997596	13.07448	.3150730	34.85718	59.80416	.4283221
#1	.0130644	-.021910	.6524137	.0033627	-.004427	26.05575
#2	.0116325	-.025798	.6500161	.0046769	-.001028	25.87348
#3	.0127243	-.028520	.6541056	.0022821	-.003166	25.85469

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0621260**	**.0182259**	**.3611262**	**60.69858**	**.0183585**	**.0443928**
Stddev	.0009463	.0000441	.0003419	.24413	.0001566	.0002385
%RSD	1.523278	.2421561	.0946638	.4021953	.8531234	.5371970
#1	.0630070	.0182350	.3611638	60.97707	.0183496	.0442382
#2	.0611256	.0181779	.3614477	60.59715	.0185195	.0442728
#3	.0622454	.0182647	.3607671	60.52153	.0182066	.0446674

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.80942**	**15.13588**	F **102.4695**	**6.685139**	**.0479468**	**.0401067**
Stddev	.01291	.06449	.4613	.022568	.0004694	.0000970
%RSD	.0816869	.4260748	.4501578	.3375870	.9788900	.2417657
#1	15.80188	15.20893	102.8118	6.703231	.0474267	.0401384
#2	15.82433	15.11192	101.9450	6.659850	.0480750	.0399978
#3	15.80205	15.08681	102.6519	6.692335	.0483388	.0401838

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.996212**	**-.025082**	F **40.27434**	**2.213284**	**6.231244**	**.2708965**
Stddev	.190946	.000629	.13457	.005533	.014642	.0019305
%RSD	6.372903	2.506213	.3341235	.2500011	.2349695	.7126305
#1	3.216697	-.024613	40.39725	2.214753	6.244598	.2707060
#2	2.886172	-.024837	40.29521	2.217934	6.233547	.2729151
#3	2.885767	-.025797	40.13056	2.207164	6.215588	.2690683

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5393-01RE Acquired: 1/12/2025 12:27:14 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D28 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.020496	F 341.9221	F 27.56583	-.002300	-.001541	.0319751
Stddev	.000317	.2820	.06981	.000421	.000434	.0006799
%RSD	1.544383	.0824760	.2532649	18.29728	28.18017	2.126453
#1	-.020744	341.9354	27.62329	-.002275	-.001125	.0313889
#2	-.020139	342.1972	27.58606	-.002732	-.001506	.0318158
#3	-.020605	341.6337	27.48813	-.001891	-.001991	.0327205

Elem	Sr4077
Units	ppm
Avg	.1680893
Stddev	.0006636
%RSD	.3947971
#1	.1687806
#2	.1680299
#3	.1674573

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3495.585	83233.84	11171.11	3917.431	3592.996
Stddev	11.105	199.53	19.83	17.296	12.489
%RSD	.3177005	.2397216	.1775148	.4415096	.3475921
#1	3507.615	83009.99	11190.39	3934.975	3606.782
#2	3493.415	83298.56	11150.77	3916.924	3589.771
#3	3485.724	83392.98	11172.17	3900.394	3582.437

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV007 Acquired: 1/12/2025 12:37:31 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV007 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.681340**	**4.702981**	**23.62432**	**4.738560**	**4.621397**	**361.8504**
Stddev	.014954	.006928	.07802	.010091	.007705	5.3131
%RSD	.3194469	.1473117	.3302673	.2129599	.1667216	1.468302
#1	4.664451	4.704843	23.53574	4.727257	4.614467	365.7581
#2	4.686673	4.708787	23.68286	4.741758	4.620030	363.9924
#3	4.692898	4.695312	23.65436	4.746665	4.629694	355.8007

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.043763**	**.5241594**	**2.429778**	**366.2416**	**14.81949**	**2.387602**
Stddev	.057252	.0028912	.007242	6.1047	.05149	.007299
%RSD	.6330598	.5515847	.2980682	1.666838	.3474574	.3056847
#1	8.998262	.5208233	2.421422	372.8621	14.86201	2.379428
#2	9.108047	.5259358	2.434247	365.0276	14.83423	2.393466
#3	9.024979	.5257191	2.433666	360.8352	14.76224	2.389912

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.14966**	**367.9136**	**13.75473**	**229.6221**	**2.388455**	**1.174349**
Stddev	.01887	2.2698	.07769	1.3591	.005526	.003446
%RSD	.1333809	.6169442	.5648035	.5918726	.2313756	.2934684
#1	14.15754	370.5188	13.84444	231.1778	2.382125	1.176816
#2	14.12813	366.3628	13.71046	228.6659	2.390918	1.175819
#3	14.16332	366.8591	13.70931	229.0226	2.392321	1.170411

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**372.8523**	**2.280720**	**14.34288**	**138.7214**	**4.790134**	F **5.630257**
Stddev	.9232	.003667	.04276	.8975	.017858	.008834
%RSD	.2475983	.1607628	.2981415	.6469679	.3728180	.1569072
#1	372.9263	2.282058	14.34581	139.7355	4.770135	5.620537
#2	371.8944	2.276572	14.38411	138.0297	4.804488	5.632439
#3	373.7363	2.283529	14.29873	138.3989	4.795779	5.637796

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV007 Acquired: 1/12/2025 12:37:31 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV007 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.505594**	**4.864845**	**4.540940**	**4.725981**	**4.557539**	F **4.302113**
Stddev	.009979	.010679	.013912	.015035	.009532	.029885
%RSD	.2214723	.2195167	.3063710	.3181374	.2091499	.6946615
#1	4.494073	4.852515	4.543317	4.708881	4.552778	4.336621
#2	4.511230	4.870912	4.525993	4.737127	4.551325	4.284891
#3	4.511480	4.871110	4.553511	4.731934	4.568514	4.284826

Elem	Sr4077
Units	ppm
Avg	**4.807493**
Stddev	.019640
%RSD	.4085281
#1	4.798019
#2	4.794386
#3	4.830074

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2056.901**	**52299.92**	**7924.176**	**2478.354**	**2760.056**
Stddev	7.924	156.97	29.114	3.189	12.507
%RSD	.3852304	.3001356	.3674111	.1286560	.4531520
#1	2066.019	52122.92	7956.471	2482.029	2774.196
#2	2051.685	52354.60	7916.117	2476.714	2750.440
#3	2052.999	52422.24	7899.940	2476.320	2755.531

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB007 Acquired: 1/12/2025 12:41:49 Type: Unk
Method: EPA SFAM01.0(v33) 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	**-.000412**	**.0003642**	**.0009637**	**.0007206**	**-.000126**	**-.000829**	**-.001800**
Stddev	.001383	.0004362	.0021567	.0030346	.001658	.003944	.000277
%RSD	335.5975	119.7592	223.7858	421.1239	1317.993	475.9967	15.40060
#1	-.000835	.0002824	.0005706	-.001266	-.002040	-.002947	-.001485
#2	-.001535	.0008354	-.000969	.004214	.000856	-.003261	-.001904
#3	.001133	-.000025	.003290	-.000786	.000807	.003722	-.002009

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000112**	**.0000683**	**.0147227**	**.0002196**	**.0001706**	**.0019320**	**.0164638**
Stddev	.0000377	.0000988	.0038956	.0001638	.0002504	.0007218	.0050329
%RSD	336.4660	144.4895	26.45967	74.57360	146.7764	37.36280	30.56925
#1	-.000004	.0001519	.0102246	.0004087	-.000001	.0011011	.0193919
#2	.000054	.0000938	.0169442	.0001266	.000055	.0022903	.0106524
#3	-.000016	-.000041	.0169994	.0001236	.000458	.0024045	.0193470

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0019563**	**.0195505**	**-.000459**	**.0003932**	**.0636548**	**-.002874**	**.0018697**
Stddev	.0003508	.0112843	.000406	.0001777	.1784827	.001072	.0003238
%RSD	17.92979	57.71893	88.40554	45.20182	280.3914	37.29006	17.31939
#1	.0019134	.0206175	-.000540	.0003683	.2690926	-.001990	.0022348
#2	.0016290	.0077705	-.000019	.0002292	-.053297	-.004066	.0016173
#3	.0023265	.0302634	-.000817	.0005820	-.024832	-.002566	.0017569

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1241053**	**-.001930**	**.0030312**	**.0004274**	**.0161051**	**.0075308**	**-.000585**
Stddev	.0562832	.001235	.0006723	.0000711	.0015753	.0148823	.000121
%RSD	45.35118	64.01572	22.18061	16.64383	9.781513	197.6180	20.65114
#1	.0647354	-.000677	.0037310	.0003604	.0178935	.0186883	-.000605
#2	.1308946	-.003147	.0029725	.0004197	.0154986	-.009367	-.000695
#3	.1766859	-.001965	.0023902	.0005020	.0149231	.013271	-.000456

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB007 Acquired: 1/12/2025 12:41:49 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB007 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0005082	.0007651	.0001078
Stddev	.0004867	.0012012	.0000654
%RSD	95.76775	156.9973	60.61699
#1	.0001029	.0011096	.0001702
#2	.0003737	-.000571	.0000398
#3	.0010480	.001756	.0001135

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2588.279	61524.99	8207.262	2918.164	3620.339
Stddev	4.519	243.00	64.471	5.255	1.213
%RSD	.1745912	.3949601	.7855409	.1800726	.0335035
#1	2593.494	61648.22	8146.996	2919.852	3620.986
#2	2585.523	61245.06	8199.547	2912.273	3621.091
#3	2585.820	61681.69	8275.244	2922.368	3618.939

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-01 Acquired: 1/12/2025 12:45:59 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMY5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0858426**	**-.001910**	**2.338664**	**.0258770**	**-.000604**	**53.67109**
Stddev	.0005613	.001281	.003531	.0011037	.000606	.37372
%RSD	.6538720	67.06976	.1509792	4.265301	100.3772	.6963126
#1	.0862340	-.000726	2.338007	.0256454	-.000000	53.50373
#2	.0851995	-.003270	2.342477	.0249075	-.000599	54.09924
#3	.0860942	-.001734	2.335507	.0270782	-.001212	53.41029

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.246202**	**.0042513**	**.0084308**	**80.81167**	**.2273632**	**.0636475**
Stddev	.007184	.0001310	.0000659	.43021	.0016645	.0000986
%RSD	.5764765	3.081920	.7813643	.5323588	.7320961	.1549138
#1	1.242539	.0042944	.0084412	80.61801	.2257851	.0637597
#2	1.254479	.0041042	.0083603	81.30467	.2291025	.0635745
#3	1.241587	.0043554	.0084908	80.51233	.2272020	.0636083

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3052597**	**118.5961**	**6.915146**	**24.65512**	**.1495793**	**-.008392**
Stddev	.0010875	.6844	.039003	.20384	.0001516	.000288
%RSD	.3562427	.5770962	.5640282	.8267468	.1013653	3.432553
#1	.3042674	118.2964	6.887158	24.52478	.1494156	-.008242
#2	.3064222	119.3792	6.959698	24.89002	.1497150	-.008724
#3	.3050895	118.1126	6.898583	24.55057	.1496073	-.008209

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5118036**	**.1193051**	**1.739254**	**8.865223**	F **15.75976**	**.5291959**
Stddev	.0470241	.0028112	.013235	.073597	.04218	.0032696
%RSD	9.187914	2.356304	.7609373	.8301736	.2676417	.6178392
#1	.4602104	.1185258	1.724655	8.874988	15.78517	.5272924
#2	.5522585	.1224236	1.742639	8.933450	15.78305	.5329712
#3	.5229420	.1169657	1.750467	8.787232	15.71107	.5273240

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-01 Acquired: 1/12/2025 12:45:59 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMY5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0054407	4.451021	F 20.07474	.0593138	.8111964	.0826947
Stddev	.0002091	.014496	.06273	.0003491	.0024019	.0006276
%RSD	3.843454	.3256724	.3124740	.5885208	.2960956	.7589400
#1	.0055279	4.467682	20.01289	.0590138	.8122280	.0822960
#2	.0055921	4.444080	20.07302	.0596969	.8129102	.0823700
#3	.0052021	4.441301	20.13831	.0592306	.8084510	.0834182

Elem	Sr4077
Units	ppm
Avg	.1740950
Stddev	.0009498
%RSD	.5455720
#1	.1737887
#2	.1751601
#3	.1733361

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3104.448	72498.28	10230.31	3419.008	3487.820
Stddev	4.731	327.99	17.25	15.142	1.136
%RSD	.1524059	.4524117	.1686367	.4428750	.0325568
#1	3101.797	72736.17	10222.23	3435.928	3486.933
#2	3109.910	72124.12	10250.13	3406.731	3487.428
#3	3101.635	72634.54	10218.59	3414.366	3489.100

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-02 Acquired: 1/12/2025 12:49:55 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMY6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1117436	-.002434	2.550161	.0270893	-.000495	58.64223
Stddev	.0008143	.001498	.002048	.0007337	.001328	.15630
%RSD	.7287451	61.52974	.0803213	2.708494	268.1727	.2665262
#1	.1114530	-.001091	2.547804	.0273977	.000676	58.50419
#2	.1126633	-.004049	2.551178	.0262518	-.000224	58.61057
#3	.1111144	-.002162	2.551503	.0276185	-.001938	58.81193

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.501779	.0044575	.0095961	90.09525	.2607889	.0695486
Stddev	.005536	.0001217	.0001533	.36002	.0009375	.0005685
%RSD	.3686308	2.730186	1.597917	.3996024	.3594819	.8173993
#1	1.501599	.0044847	.0097272	89.83716	.2608983	.0701911
#2	1.496334	.0045634	.0096336	89.94205	.2598015	.0693439
#3	1.507402	.0043245	.0094275	90.50653	.2616669	.0691109

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3513543	129.7798	7.588087	27.70032	.1746221	-.009290
Stddev	.0011896	.4258	.024805	.15711	.0010030	.000374
%RSD	.3385832	.3280995	.3268956	.5671616	.5743958	4.021258
#1	.3499826	129.3627	7.571423	27.55861	.1734756	-.009317
#2	.3519765	129.7629	7.576244	27.67308	.1753374	-.008904
#3	.3521038	130.2138	7.616594	27.86926	.1750533	-.009650

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4603606	.1282546	1.985676	9.738067	F 18.09763	.5821791
Stddev	.0917614	.0018879	.001317	.034883	.00569	.0016909
%RSD	19.93250	1.471965	.0663228	.3582162	.0314174	.2904418
#1	.4849754	.1265441	1.984156	9.697933	18.09177	.5803591
#2	.3588022	.1279395	1.986466	9.755173	18.09798	.5824768
#3	.5373041	.1302802	1.986407	9.761097	18.10313	.5837013

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-02 Acquired: 1/12/2025 12:49:55 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMY6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049955	4.416854	F 19.82705	.0738521	.8718831	.0910271
Stddev	.0001811	.000847	.16291	.0018498	.0066686	.0007150
%RSD	3.625990	.0191760	.8216302	2.504669	.7648511	.7855121
#1	.0048439	4.416397	19.64642	.0724773	.8643156	.0906449
#2	.0051962	4.416334	19.87193	.0759551	.8744342	.0905844
#3	.0049466	4.417831	19.96282	.0731238	.8768996	.0918520

Elem	Sr4077
Units	ppm
Avg	.1942838
Stddev	.0007016
%RSD	.3611218
#1	.1934993
#2	.1945009
#3	.1948512

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3078.178	71827.75	10302.86	3390.309	3403.069
Stddev	.825	21.24	63.48	11.049	2.557
%RSD	.0267962	.0295749	.6161404	.3258923	.0751340
#1	3077.261	71812.25	10375.57	3380.073	3402.688
#2	3078.414	71851.97	10258.50	3388.833	3405.795
#3	3078.860	71819.04	10274.49	3402.022	3400.724

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-03 Acquired: 1/12/2025 12:53:50 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMY7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1257196**	**-.004118**	**2.318010**	**.0267331**	**-.002680**	**60.31993**
Stddev	.0016790	.000808	.001723	.0024685	.002487	.27933
%RSD	1.335489	19.62836	.0743300	9.234072	92.80784	.4630825
#1	.1275798	-.004930	2.317245	.0278416	-.005551	60.60644
#2	.1243165	-.004111	2.316802	.0284530	-.001310	60.30496
#3	.1252627	-.003314	2.319983	.0239046	-.001179	60.04838

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.437776**	**.0047504**	**.0093475**	**100.9475**	**.1986176**	**.0706801**
Stddev	.009136	.0001184	.0000844	.3806	.0015457	.0003054
%RSD	.6354531	2.492757	.9033664	.3770269	.7782274	.4321385
#1	1.447139	.0048677	.0092522	101.3238	.1992449	.0704256
#2	1.437304	.0046308	.0094130	100.9561	.1968569	.0705960
#3	1.428885	.0047528	.0093773	100.5627	.1997511	.0710188

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3233449**	**134.9869**	**8.016117**	**26.53568**	**.1636634**	**-.010343**
Stddev	.0020970	.4314	.037768	.09780	.0003000	.000394
%RSD	.6485376	.3195611	.4711503	.3685480	.1833196	3.804795
#1	.3211985	135.3991	8.052266	26.63880	.1635914	-.010540
#2	.3253888	135.0228	8.019169	26.52398	.1634059	-.009890
#3	.3234474	134.5387	7.976916	26.44426	.1639929	-.010600

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6382201**	**.1338482**	**1.633449**	**9.499287**	F **17.85421**	**.5972546**
Stddev	.1824942	.0022085	.019872	.021716	.03387	.0039903
%RSD	28.59425	1.649986	1.216541	.2286069	.1897026	.6681111
#1	.8447492	.1352966	1.638355	9.523237	17.86684	.6007301
#2	.5711968	.1349417	1.611584	9.480880	17.81584	.5981368
#3	.4987142	.1313063	1.650408	9.493743	17.87995	.5928970

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-03 Acquired: 1/12/2025 12:53:50 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMY7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0044393	3.052659	F 19.96655	.0823188	.9145249	.0932718
Stddev	.0002595	.011896	.04303	.0006855	.0023557	.0002944
%RSD	5.844755	.3896952	.2155039	.8327686	.2575909	.3156908
#1	.0042050	3.038942	20.00906	.0821766	.9171329	.0930768
#2	.0043948	3.058886	19.92302	.0817155	.9138905	.0936105
#3	.0047182	3.060149	19.96757	.0830643	.9125513	.0931281

Elem	Sr4077
Units	ppm
Avg	.2449676
Stddev	.0013628
%RSD	.5563016
#1	.2461743
#2	.2452390
#3	.2434896

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3120.382	72863.89	10278.56	3415.156	3427.655
Stddev	7.833	518.16	97.58	35.659	4.562
%RSD	.2510222	.7111360	.9493564	1.044126	.1330861
#1	3111.340	72749.29	10290.14	3407.348	3422.598
#2	3125.103	73429.76	10369.84	3454.071	3431.459
#3	3124.702	72412.62	10175.71	3384.048	3428.908

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-04 Acquired: 1/12/2025 12:57:45 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMY8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0719720**	**-.002854**	**.6322990**	**.0223029**	**-.003414**	**54.67250**
Stddev	.0018587	.000840	.0022151	.0009954	.001756	.05103
%RSD	2.582586	29.42518	.3503194	4.463130	51.43253	.0933392
#1	.0740971	-.003106	.6305553	.0221490	-.004886	54.64110
#2	.0711694	-.003540	.6347914	.0213935	-.003884	54.64502
#3	.0706493	-.001917	.6315503	.0233664	-.001471	54.73138

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.471786**	**.0042671**	**.0070631**	**57.43560**	**.1077114**	**.0640262**
Stddev	.002601	.0000707	.0000556	.07267	.0005328	.0002400
%RSD	.1767427	1.655833	.7867267	.1265323	.4946891	.3747806
#1	1.468842	.0043420	.0071253	57.35404	.1077106	.0638247
#2	1.473772	.0042016	.0070183	57.49349	.1071790	.0639623
#3	1.472746	.0042577	.0070458	57.45927	.1082447	.0642917

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2433905**	**117.0115**	**10.11771**	**20.64362**	**.1380353**	**-.008984**
Stddev	.0010267	.0749	.01330	.06521	.0006478	.000073
%RSD	.4218144	.0640147	.1315013	.3158989	.4692897	.8129869
#1	.2422159	116.9730	10.10361	20.60669	.1372940	-.008906
#2	.2438386	117.0978	10.13004	20.71892	.1384926	-.009051
#3	.2441169	116.9636	10.11948	20.60526	.1383192	-.008995

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5182172**	**.1094880**	**.9614690**	**7.097371**	F **13.27376**	**.5130100**
Stddev	.2360132	.0021249	.0043028	.010135	.01374	.0009078
%RSD	45.54329	1.940779	.4475279	.1427945	.1035308	.1769545
#1	.6411418	.1083613	.9661803	7.086278	13.27873	.5125347
#2	.6673953	.1081638	.9604795	7.106145	13.28433	.5124385
#3	.2461145	.1119390	.9577470	7.099690	13.25823	.5140567

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-04 Acquired: 1/12/2025 12:57:45 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMY8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0035759	2.651459	F 19.06839	.0324571	.7084256	.0789309
Stddev	.0002852	.005433	.04320	.0012014	.0010149	.0004760
%RSD	7.975144	.2049161	.2265630	3.701439	.1432596	.6030614
#1	.0037023	2.657728	19.09219	.0335046	.7095006	.0783909
#2	.0032493	2.648108	19.01852	.0311457	.7074840	.0792898
#3	.0037760	2.648541	19.09445	.0327209	.7082922	.0791119

Elem	Sr4077
Units	ppm
Avg	.1670616
Stddev	.0000926
%RSD	.0553965
#1	.1669625
#2	.1671457
#3	.1670766

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3108.193	73654.36	10321.40	3491.861	3428.352
Stddev	2.365	91.30	22.16	13.408	1.364
%RSD	.0761033	.1239581	.2147311	.3839887	.0397880
#1	3105.862	73595.82	10304.67	3478.450	3426.905
#2	3110.591	73759.56	10346.54	3491.866	3429.614
#3	3108.125	73607.71	10313.00	3505.267	3428.537

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-05 Acquired: 1/12/2025 13:01:42 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMY9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0652101**	**-.005324**	**.6036581**	**.0277110**	**-.001790**	**63.47488**
Stddev	.0018117	.000934	.0030793	.0008737	.000982	.04134
%RSD	2.778307	17.54667	.5100987	3.153037	54.85466	.0651313
#1	.0671703	-.004560	.6027010	.0285699	-.002905	63.42876
#2	.0648631	-.005046	.6011710	.0268231	-.001057	63.48726
#3	.0635971	-.006365	.6071022	.0277400	-.001406	63.50861

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.483514**	**.0048059**	**.0091451**	**56.94305**	**.1126498**	**.0773449**
Stddev	.003165	.0000997	.0000815	.13703	.0000567	.0004405
%RSD	.2133139	2.075639	.8906287	.2406382	.0503661	.5694980
#1	1.481112	.0048260	.0090564	56.85116	.1125995	.0778367
#2	1.482331	.0048940	.0091624	56.87745	.1127113	.0772113
#3	1.487100	.0046976	.0092165	57.10055	.1126386	.0769867

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2776767**	**134.6715**	**11.56229**	**22.41852**	**.1571468**	**-.009764**
Stddev	.0017251	.1798	.02613	.02890	.0008965	.000293
%RSD	.6212745	.1335227	.2260348	.1289164	.5704890	3.003099
#1	.2795894	134.5227	11.54599	22.38882	.1580230	-.009524
#2	.2762383	134.6205	11.54844	22.42020	.1562312	-.010091
#3	.2772024	134.8713	11.59243	22.44655	.1571862	-.009677

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4573088**	**.1202572**	**1.040878**	**6.698484**	F **14.07278**	**.5844754**
Stddev	.1788106	.0016024	.004216	.020834	.02740	.0020778
%RSD	39.10063	1.332462	.4050616	.3110256	.1947084	.3555055
#1	.5849171	.1192457	1.045277	6.700189	14.10425	.5823765
#2	.5340762	.1194212	1.040486	6.676850	14.05425	.5845183
#3	.2529333	.1221047	1.036872	6.718413	14.05982	.5865315

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-05 Acquired: 1/12/2025 13:01:42 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMY9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0054584	2.994107	F 19.41908	.0247980	.6893954	.0911092
Stddev	.0002750	.016550	.07025	.0004635	.0023101	.0008479
%RSD	5.038977	.5527473	.3617790	1.869231	.3350914	.9306606
#1	.0054470	3.011238	19.49913	.0251866	.6920138	.0905141
#2	.0051892	2.992875	19.36769	.0242849	.6876452	.0907335
#3	.0057389	2.978207	19.39041	.0249224	.6885271	.0920801

Elem	Sr4077
Units	ppm
Avg	.1747782
Stddev	.0000448
%RSD	.0256367
#1	.1747446
#2	.1748291
#3	.1747609

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3221.505	76105.03	10882.73	3612.288	3352.717
Stddev	5.244	112.26	51.54	12.942	3.469
%RSD	.1627789	.1475107	.4736245	.3582667	.1034788
#1	3217.255	76080.91	10825.75	3598.355	3348.754
#2	3219.895	76006.79	10896.36	3614.579	3355.205
#3	3227.365	76227.39	10926.09	3623.932	3354.192

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-06 Acquired: 1/12/2025 13:05:38 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMZ0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0393365	-.001758	.3159893	.0188835	-.001798	70.77316
Stddev	.0031374	.001277	.0016425	.0015026	.000570	.16972
%RSD	7.975748	72.61776	.5197893	7.957332	31.71440	.2398071
#1	.0383571	-.003178	.3158406	.0172545	-.002087	70.92863
#2	.0368056	-.001393	.3177010	.0202153	-.001141	70.79874
#3	.0428468	-.000704	.3144262	.0191807	-.002167	70.59210

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9811324	.0033178	.0042921	53.80461	.1296465	.0505028
Stddev	.0015611	.0001128	.0000586	.05697	.0008741	.0003138
%RSD	.1591081	3.400833	1.365181	.1058810	.6742410	.6212551
#1	.9809823	.0031898	.0042987	53.86401	.1286891	.0508597
#2	.9796518	.0033603	.0042305	53.75043	.1304020	.0503781
#3	.9827631	.0034031	.0043471	53.79940	.1298484	.0502705

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1704259	100.3342	2.779941	21.16288	.1376385	-.008435
Stddev	.0023743	.2193	.001871	.03654	.0002272	.000224
%RSD	1.393146	.2185478	.0672982	.1726754	.1650667	2.655514
#1	.1680461	100.5023	2.777998	21.20250	.1374513	-.008176
#2	.1704368	100.4142	2.780096	21.15564	.1378912	-.008563
#3	.1727947	100.0862	2.781730	21.13050	.1375730	-.008565

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4520772	.1189199	.8992689	5.990912	8.844184	.4285979
Stddev	.1233138	.0007089	.0042426	.040638	.010697	.0015418
%RSD	27.27716	.5960838	.4717893	.6783230	.1209466	.3597320
#1	.4253436	.1181084	.9040657	6.031722	8.854216	.4301198
#2	.3443230	.1194180	.8960087	5.990567	8.832928	.4286369
#3	.5865649	.1192333	.8977321	5.950449	8.845409	.4270369

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-06 Acquired: 1/12/2025 13:05:38 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMZ0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016865	.9791692	F 18.88346	.0109309	1.013113	.1323091
Stddev	.0002725	.0047823	.13287	.0009254	.009132	.0002807
%RSD	16.15598	.4884056	.7036560	8.466054	.9013365	.2121616
#1	.0016944	.9740608	18.73939	.0100363	1.002725	.1325961
#2	.0014102	.9799071	18.90979	.0108720	1.016741	.1322960
#3	.0019550	.9835396	19.00119	.0118843	1.019874	.1320352

Elem	Sr4077
Units	ppm
Avg	.1240472
Stddev	.0006913
%RSD	.5573048
#1	.1246295
#2	.1242290
#3	.1232832

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3198.782	74984.04	10729.64	3572.388	3420.304
Stddev	6.411	49.05	102.72	13.127	3.262
%RSD	.2004139	.0654196	.9573853	.3674621	.0953598
#1	3195.712	74986.24	10846.31	3565.622	3417.941
#2	3194.483	75031.95	10689.80	3587.518	3418.946
#3	3206.150	74933.92	10652.80	3564.023	3424.025

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-07 Acquired: 1/12/2025 13:09:37 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMZ1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0443439**	**-.004150**	**.1166908**	**.0216554**	**-.003585**	**45.28955**
Stddev	.0028688	.002835	.0005174	.0026580	.002324	.16318
%RSD	6.469511	68.30279	.4434098	12.27399	64.84357	.3603030
#1	.0438076	-.003345	.1164381	.0246001	-.000913	45.32493
#2	.0474431	-.007300	.1163483	.0194339	-.004696	45.11158
#3	.0417811	-.001805	.1172860	.0209321	-.005145	45.43213

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4702614**	**.0029854**	**.0046334**	**232.2100**	**.0861936**	**.0675368**
Stddev	.0007648	.0001244	.0000353	.5779	.0004117	.0001539
%RSD	.1626227	4.165649	.7615598	.2488864	.4776816	.2278489
#1	.4702181	.0030271	.0046430	232.6950	.0864289	.0677084
#2	.4695191	.0030835	.0046629	231.5705	.0864338	.0674111
#3	.4710468	.0028455	.0045943	232.3644	.0857182	.0674908

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2057370**	**127.9439**	**5.070485**	**57.40122**	**.1427161**	**-.011795**
Stddev	.0010515	.2697	.013809	.04938	.0006090	.000222
%RSD	.5110933	.2108342	.2723506	.0860229	.4267101	1.884452
#1	.2046635	128.0437	5.078053	57.44868	.1426729	-.011714
#2	.2057825	127.6385	5.054546	57.35013	.1421298	-.011624
#3	.2067650	128.1495	5.078856	57.40486	.1433455	-.012046

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8081438**	**.1127923**	**.4836815**	**6.547646**	**8.132844**	**.5540610**
Stddev	.0954275	.0013211	.0021037	.002362	.032236	.0018291
%RSD	11.80824	1.171236	.4349422	.0360796	.3963697	.3301296
#1	.9117855	.1113821	.4848490	6.549709	8.122852	.5548549
#2	.7887299	.1129938	.4812529	6.545069	8.106787	.5519691
#3	.7239160	.1140011	.4849426	6.548161	8.168893	.5553590

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-07 Acquired: 1/12/2025 13:09:37 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMZ1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015729	.4624748	F 16.70468	.0019953	.6892308	.0912619
Stddev	.0001075	.0015526	.01726	.0015435	.0008766	.0008985
%RSD	6.831776	.3357216	.1033250	77.35794	.1271843	.9845225
#1	.0015292	.4607664	16.69333	.0002266	.6901588	.0919949
#2	.0016953	.4628581	16.72454	.0026896	.6891166	.0915313
#3	.0014941	.4637999	16.69616	.0030697	.6884168	.0902596

Elem	Sr4077
Units	ppm
Avg	.2140830
Stddev	.0007290
%RSD	.3405137
#1	.2142476
#2	.2132859
#3	.2147157

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2970.378	69458.63	10089.31	3280.601	3220.321
Stddev	7.358	300.42	38.77	14.328	11.062
%RSD	.2477190	.4325188	.3842708	.4367639	.3434924
#1	2971.684	69112.77	10052.89	3268.633	3217.544
#2	2976.995	69654.85	10084.98	3296.479	3232.506
#3	2962.453	69608.25	10130.06	3276.690	3210.911

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-08 Acquired: 1/12/2025 13:13:35 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNA8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1207208**	**-.003608**	**5.082159**	**.0420520**	**-.000939**	**66.62854**
Stddev	.0010587	.000309	.004560	.0026161	.000624	.15240
%RSD	.8769436	8.557597	.0897340	6.220980	66.43351	.2287366
#1	.1218510	-.003256	5.077653	.0397988	-.001535	66.45370
#2	.1197524	-.003832	5.086772	.0449210	-.000291	66.69857
#3	.1205590	-.003735	5.082053	.0414363	-.000991	66.73334

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.733490**	**.0048438**	**.0136397**	**194.4500**	**.1935375**	**.1034422**
Stddev	.004960	.0001690	.0000393	.2757	.0007667	.0002592
%RSD	.2861495	3.490069	.2883597	.1418019	.3961339	.2506087
#1	1.736840	.0048972	.0135952	194.1316	.1941297	.1033856
#2	1.735837	.0046545	.0136698	194.6107	.1938111	.1037250
#3	1.727791	.0049796	.0136541	194.6077	.1926715	.1032159

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6540269**	**197.0453**	**10.43329**	**47.22275**	**.2184896**	**-.015687**
Stddev	.0013776	.5740	.01632	.14583	.0004580	.000528
%RSD	.2106292	.2912861	.1564517	.3088118	.2096295	3.363246
#1	.6553167	196.3825	10.44067	47.06030	.2180521	-.016233
#2	.6525757	197.3806	10.44463	47.26557	.2184509	-.015646
#3	.6541883	197.3727	10.41459	47.34237	.2189657	-.015181

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.077884**	**.1769508**	**4.136911**	**8.658678**	F **14.68218**	**.8425751**
Stddev	.030599	.0027380	.010448	.026356	.00150	.0034050
%RSD	2.838807	1.547302	.2525578	.3043862	.0102291	.4041185
#1	1.051513	.1737898	4.135165	8.629317	14.68188	.8387019
#2	1.070705	.1785788	4.127446	8.680293	14.68381	.8450972
#3	1.111435	.1784839	4.148122	8.666425	14.68086	.8439262

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-08 Acquired: 1/12/2025 13:13:35 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNA8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0087183**	**4.364916**	F **19.31770**	**.2216911**	**1.421540**	**.0920780**
Stddev	.0001206	.010844	.07151	.0020322	.004244	.0010233
%RSD	1.383246	.2484429	.3701790	.9166642	.2985179	1.111310
#1	.0088187	4.370425	19.39933	.2194614	1.426224	.0910852
#2	.0087515	4.352423	19.26609	.2234391	1.417952	.0931292
#3	.0085845	4.371900	19.28768	.2221730	1.420443	.0920194

Elem	Sr4077
Units	ppm
Avg	**.3588768**
Stddev	.0014997
%RSD	.4178903
#1	.3571724
#2	.3599944
#3	.3594635

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2951.893**	**69741.54**	**10105.89**	**3297.770**	**3279.127**
Stddev	2.138	157.51	52.11	9.956	4.132
%RSD	.0724253	.2258512	.5156559	.3018978	.1260217
#1	2949.570	69639.07	10054.91	3296.791	3282.643
#2	2953.778	69922.91	10159.07	3308.179	3274.575
#3	2952.331	69662.64	10103.70	3288.339	3280.162

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-09 Acquired: 1/12/2025 13:17:30 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNA9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1090080**	**-.005592**	**5.738725**	**.0321965**	**-.004424**	**60.10290**
Stddev	.0024880	.000823	.004033	.0028619	.000086	.29598
%RSD	2.282440	14.70927	.0702694	8.888860	1.949726	.4924505
#1	.1109370	-.004652	5.743381	.0354498	-.004339	60.43047
#2	.1061997	-.006179	5.736362	.0310726	-.004511	60.02352
#3	.1098873	-.005945	5.736431	.0300672	-.004423	59.85470

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.566241**	**.0045236**	**.0113453**	**147.7721**	**.1800101**	**.0879848**
Stddev	.009018	.0000738	.0000709	.6316	.0011112	.0001421
%RSD	.5757625	1.631534	.6246230	.4273985	.6172738	.1614919
#1	1.575919	.0046088	.0114021	148.5009	.1804818	.0880412
#2	1.558075	.0044808	.0113680	147.4301	.1808075	.0878231
#3	1.564728	.0044812	.0112659	147.3853	.1787409	.0880899

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.047242**	**159.4470**	**9.447185**	**34.84305**	**.2144467**	**-.011750**
Stddev	.004365	.8400	.052268	.15804	.0004184	.000199
%RSD	.4168560	.5268168	.5532683	.4535759	.1950842	1.690678
#1	1.042203	160.4010	9.506320	35.02532	.2140225	-.011529
#2	1.049870	159.1215	9.407162	34.74409	.2148590	-.011805
#3	1.049654	158.8185	9.428075	34.75975	.2144585	-.011915

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8461708**	**.1551714**	**6.657092**	**7.435591**	F **12.35686**	**.6893928**
Stddev	.1106802	.0013284	.010590	.037852	.00584	.0036057
%RSD	13.08012	.8560866	.1590778	.5090615	.0472295	.5230248
#1	.8203208	.1541279	6.669300	7.415684	12.35286	.6932916
#2	.7507033	.1566668	6.651605	7.411847	12.36356	.6887085
#3	.9674883	.1547195	6.650371	7.479242	12.35416	.6861782

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-09 Acquired: 1/12/2025 13:17:30 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNA9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0063955	3.735969	F 19.78897	.7439351	1.294357	.0770712
Stddev	.0001486	.002812	.04398	.0011983	.004154	.0015313
%RSD	2.323981	.0752813	.2222581	.1610706	.3209163	1.986862
#1	.0065665	3.738849	19.78567	.7425936	1.296044	.0785740
#2	.0062975	3.733229	19.74673	.7448993	1.289625	.0755129
#3	.0063224	3.735829	19.83451	.7443124	1.297401	.0771269

Elem	Sr4077
Units	ppm
Avg	.3188764
Stddev	.0018635
%RSD	.5843811
#1	.3209995
#2	.3181179
#3	.3175118

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2929.887	68580.02	9892.295	3229.637	3338.550
Stddev	1.780	183.25	39.334	3.292	4.119
%RSD	.0607408	.2672017	.3976226	.1019295	.1233718
#1	2931.483	68439.09	9935.442	3233.433	3336.466
#2	2927.968	68513.81	9858.436	3227.905	3335.890
#3	2930.210	68787.18	9883.007	3227.572	3343.295

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-10 Acquired: 1/12/2025 13:21:24 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNB0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1344613**	**-.003917**	**5.638351**	**.0317580**	**-.001345**	**61.32735**
Stddev	.0014868	.002239	.013578	.0018414	.002526	.13877
%RSD	1.105716	57.17659	.2408073	5.798316	187.8697	.2262784
#1	.1352442	-.004599	5.625107	.0334472	-.004188	61.45565
#2	.1353930	-.005735	5.637707	.0297950	.000643	61.18006
#3	.1327466	-.001415	5.652239	.0320319	-.000489	61.34634

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.841427**	**.0051813**	**.0148454**	**168.4771**	**.1749917**	**.0919692**
Stddev	.004218	.0000579	.0000465	.3908	.0009786	.0002836
%RSD	.2290511	1.116666	.3132505	.2319898	.5592506	.3084052
#1	1.842917	.0051190	.0148430	168.5038	.1738978	.0917055
#2	1.836666	.0051915	.0148001	168.0736	.1752934	.0919328
#3	1.844697	.0052334	.0148930	168.8539	.1757840	.0922692

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6329873**	**158.8796**	**10.75602**	**32.90628**	**.2126834**	**-.010839**
Stddev	.0009650	.2884	.02047	.09188	.0008681	.000354
%RSD	.1524591	.1815483	.1903510	.2792109	.4081609	3.269340
#1	.6335873	159.0818	10.75333	32.84940	.2123711	-.010440
#2	.6318741	158.5493	10.73702	32.85716	.2120146	-.011116
#3	.6335004	159.0077	10.77771	33.01228	.2136644	-.010962

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7363696**	**.1560349**	**3.598729**	**7.099895**	F **12.93132**	**.6861446**
Stddev	.0805736	.0010333	.007071	.053734	.01804	.0013326
%RSD	10.94201	.6622281	.1964753	.7568281	.1395332	.1942157
#1	.6735505	.1554941	3.592083	7.062590	12.95095	.6874575
#2	.8272134	.1553842	3.606159	7.075612	12.92756	.6847931
#3	.7083447	.1572263	3.597945	7.161485	12.91545	.6861832

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-10 Acquired: 1/12/2025 13:21:24 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNB0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053610	3.333549	F 18.94747	.1973214	1.204573	.0801817
Stddev	.0002626	.006683	.03952	.0013264	.007255	.0012263
%RSD	4.898026	.2004797	.2085824	.6722052	.6022530	1.529454
#1	.0056068	3.331648	18.91291	.1987068	1.201829	.0811824
#2	.0050844	3.328022	18.99056	.1960632	1.212799	.0788137
#3	.0053918	3.340976	18.93895	.1971942	1.199089	.0805491

Elem	Sr4077
Units	ppm
Avg	.3426591
Stddev	.0005803
%RSD	.1693398
#1	.3432969
#2	.3421624
#3	.3425179

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3000.156	69303.39	10039.68	3281.459	3342.445
Stddev	4.962	111.75	58.48	3.121	5.629
%RSD	.1653952	.1612427	.5824659	.0951209	.1684183
#1	3005.878	69343.41	10059.28	3278.307	3348.216
#2	2997.548	69177.15	9973.92	3281.522	3342.149
#3	2997.041	69389.62	10085.85	3284.549	3336.969

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-11 Acquired: 1/12/2025 13:25:19 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNB1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1347096**	**-.006962**	**5.963807**	**.0332701**	**-.002339**	**67.27822**
Stddev	.0023822	.002475	.006516	.0020719	.001039	.13459
%RSD	1.768356	35.55516	.1092609	6.227569	44.44532	.2000562
#1	.1334475	-.009808	5.963994	.0340217	-.001228	67.43322
#2	.1332240	-.005761	5.957200	.0348613	-.002501	67.19093
#3	.1374572	-.005315	5.970228	.0309273	-.003288	67.21050

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.909715**	**.0053232**	**.0121385**	**205.9551**	**.1714878**	**.1003276**
Stddev	.011080	.0000277	.0001485	.6747	.0004354	.0005012
%RSD	.5802165	.5203448	1.223401	.3275737	.2539149	.4995620
#1	1.922474	.0053532	.0119709	206.7337	.1717931	.0997490
#2	1.902512	.0053180	.0121913	205.5420	.1709892	.1006269
#3	1.904158	.0052985	.0122535	205.5897	.1716812	.1006069

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6499510**	**171.0130**	**11.32309**	**32.99709**	**.1888797**	**-.011829**
Stddev	.0009023	.3510	.06004	.14421	.0003245	.000009
%RSD	.1388273	.2052377	.5302167	.4370417	.1717834	.0796724
#1	.6489990	171.4179	11.39090	33.15293	.1885052	-.011824
#2	.6500601	170.8265	11.30166	32.97001	.1890576	-.011840
#3	.6507937	170.7946	11.27670	32.86835	.1890764	-.011824

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9318740**	**.1630797**	**3.093287**	**7.736385**	F **13.56006**	**.7365120**
Stddev	.1724938	.0014244	.006290	.033948	.01426	.0020565
%RSD	18.51042	.8734363	.2033395	.4388069	.1051750	.2792181
#1	1.051716	.1630390	3.086286	7.770295	13.57383	.7386689
#2	.734176	.1645240	3.098460	7.736461	13.56100	.7362938
#3	1.009731	.1616761	3.095117	7.702399	13.54536	.7345734

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-11 Acquired: 1/12/2025 13:25:19 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNB1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042108	2.847092	F 19.67005	.2440549	1.159110	.0891551
Stddev	.0001150	.001340	.03051	.0011166	.003318	.0008675
%RSD	2.731448	.0470771	.1551048	.4575333	.2862389	.9730126
#1	.0042879	2.848186	19.69951	.2427839	1.162938	.0885593
#2	.0042659	2.845597	19.67206	.2448781	1.157334	.0901503
#3	.0040786	2.847493	19.63859	.2445028	1.157059	.0887555

Elem	Sr4077
Units	ppm
Avg	.4030297
Stddev	.0006692
%RSD	.1660478
#1	.4037429
#2	.4024155
#3	.4029306

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3019.387	70042.50	10157.55	3324.391	3308.038
Stddev	2.893	192.65	12.58	3.215	3.528
%RSD	.0958121	.2750495	.1238567	.0967096	.1066503
#1	3020.831	69820.06	10145.16	3323.597	3312.072
#2	3021.273	70151.92	10157.19	3327.928	3306.512
#3	3016.056	70155.54	10170.31	3321.647	3305.530

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-12 Acquired: 1/12/2025 13:29:14 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNB2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1359707**	**-.006316**	**4.712232**	**.0371019**	**-.002460**	**69.85971**
Stddev	.0020535	.002516	.017669	.0008766	.001026	.13633
%RSD	1.510256	39.83545	.3749532	2.362788	41.69010	.1951426
#1	.1345238	-.008831	4.700383	.0361024	-.003610	69.71132
#2	.1350673	-.003798	4.703774	.0374633	-.001642	69.88842
#3	.1383210	-.006319	4.732540	.0377401	-.002128	69.97939

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.762059**	**.0050148**	**.0121864**	**209.1476**	**.1643720**	**.1082926**
Stddev	.007644	.0000249	.0001855	.8150	.0006100	.0003583
%RSD	.4338013	.4959736	1.522540	.3896954	.3710822	.3308596
#1	1.753235	.0050352	.0120567	208.2586	.1637676	.1079883
#2	1.766677	.0050221	.0121035	209.3246	.1643612	.1082019
#3	1.766263	.0049871	.0123989	209.8595	.1649874	.1086875

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6007683**	**198.9405**	**12.09093**	**35.57251**	**.1901857**	**-.014466**
Stddev	.0046941	.5784	.06467	.16723	.0004572	.000269
%RSD	.7813431	.2907479	.5348812	.4701208	.2403859	1.860997
#1	.6019973	198.3818	12.01847	35.42520	.1899123	-.014305
#2	.6047255	198.9030	12.11154	35.53804	.1899313	-.014777
#3	.5955819	199.5368	12.14279	35.75429	.1907135	-.014317

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8079484**	**.1672695**	**2.879098**	**7.294763**	F **13.93607**	**.8491484**
Stddev	.0936277	.0015863	.006942	.009242	.05991	.0025504
%RSD	11.58833	.9483633	.2411303	.1266985	.4298719	.3003464
#1	.7201423	.1685058	2.871824	7.299578	13.94897	.8468106
#2	.9064749	.1678218	2.885653	7.284107	13.87076	.8487664
#3	.7972280	.1654808	2.879817	7.300603	13.98847	.8518682

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-12 Acquired: 1/12/2025 13:29:14 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNB2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0056305	2.705012	F 20.60797	.2479041	1.225311	.0869510
Stddev	.0003084	.015668	.19947	.0019942	.010608	.0009282
%RSD	5.477576	.5792394	.9679354	.8044429	.8657534	1.067505
#1	.0058974	2.688119	20.46420	.2490968	1.219832	.0863937
#2	.0052929	2.707849	20.83569	.2456019	1.237538	.0864368
#3	.0057012	2.719068	20.52401	.2490137	1.218561	.0880225

Elem	Sr4077
Units	ppm
Avg	.4251969
Stddev	.0005441
%RSD	.1279656
#1	.4246708
#2	.4251627
#3	.4257573

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2980.569	69407.24	10137.07	3318.687	3249.156
Stddev	.421	159.03	69.17	10.946	5.439
%RSD	.0141083	.2291209	.6823515	.3298293	.1673884
#1	2980.292	69513.23	10152.22	3330.354	3251.021
#2	2981.053	69484.11	10061.58	3317.064	3253.417
#3	2980.363	69224.38	10197.40	3308.644	3243.030

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-13 Acquired: 1/12/2025 13:33:08 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNB3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0898121**	**-.004785**	**1.288106**	**.0324523**	**-.003689**	**73.54534**
Stddev	.0010916	.001410	.004439	.0022804	.001722	.21179
%RSD	1.215457	29.46904	.3446365	7.026871	46.66604	.2879671
#1	.0901716	-.006412	1.291564	.0334931	-.002705	73.35025
#2	.0906786	-.003921	1.289654	.0340267	-.002686	73.77059
#3	.0885860	-.004021	1.283100	.0298373	-.005677	73.51519

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8645912**	**.0046484**	**.0071950**	**72.00902**	**.1379109**	**.1052901**
Stddev	.0013045	.0001799	.0001033	.17020	.0003034	.0005492
%RSD	.1508819	3.868958	1.435776	.2363654	.2200321	.5215743
#1	.8646485	.0045650	.0073099	71.85976	.1375987	.1056556
#2	.8658661	.0048548	.0071652	72.19438	.1382048	.1055562
#3	.8632590	.0045255	.0071099	71.97291	.1379292	.1046586

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2313092**	**161.2311**	**10.03417**	**20.46371**	**.1355536**	**-.013135**
Stddev	.0011007	.5544	.02119	.09220	.0003924	.000174
%RSD	.4758535	.3438495	.2112057	.4505489	.2894913	1.322605
#1	.2305520	160.7006	10.03153	20.35807	.1357579	-.013333
#2	.2308039	161.8066	10.05655	20.52793	.1358017	-.013063
#3	.2325719	161.1861	10.01441	20.50514	.1351011	-.013009

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6762229**	**.1712912**	**1.246223**	**4.057712**	F **13.67829**	**.6727024**
Stddev	.1131021	.0038797	.008410	.023879	.06396	.0031504
%RSD	16.72556	2.264950	.6747987	.5884893	.4676274	.4683246
#1	.5499850	.1742011	1.255932	4.035255	13.70361	.6691397
#2	.7103578	.1727861	1.241203	4.082796	13.72571	.6751208
#3	.7683260	.1668865	1.241535	4.055084	13.60554	.6738467

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-13 Acquired: 1/12/2025 13:33:08 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNB3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043304	1.119888	F 19.96254	.1341930	1.443030	.0707383
Stddev	.0002249	.005847	.05589	.0012720	.005190	.0010352
%RSD	5.194057	.5221068	.2799508	.9479044	.3596376	1.463357
#1	.0044055	1.126005	20.02399	.1349090	1.447929	.0711482
#2	.0040776	1.119304	19.91475	.1349456	1.443570	.0695609
#3	.0045083	1.114355	19.94888	.1327243	1.437592	.0715057

Elem	Sr4077
Units	ppm
Avg	.1986321
Stddev	.0006667
%RSD	.3356566
#1	.1979162
#2	.1992352
#3	.1987448

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2991.082	70340.57	10027.84	3356.306	3395.433
Stddev	2.175	37.04	17.57	22.056	7.349
%RSD	.0727270	.0526542	.1751911	.6571380	.2164475
#1	2989.201	70344.34	10012.37	3331.149	3389.344
#2	2990.579	70301.80	10046.94	3365.453	3393.359
#3	2993.464	70375.58	10024.22	3372.316	3403.596

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-14 Acquired: 1/12/2025 13:37:05 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNB4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1452235**	**-.008867**	**.4026461**	**.0362010**	**-.002822**	**80.29132**
Stddev	.0008169	.001525	.0014763	.0014046	.001740	.34760
%RSD	.5625371	17.20206	.3666521	3.879952	61.66224	.4329230
#1	.1460300	-.009052	.4038822	.0347300	-.004671	80.48506
#2	.1443965	-.010291	.4030447	.0375281	-.002575	80.49887
#3	.1452440	-.007258	.4010114	.0363448	-.001218	79.89003

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7897199**	**.0052203**	**.0091087**	**144.2878**	**.1257984**	**.1529959**
Stddev	.0046537	.0000730	.0000284	.6672	.0003805	.0008797
%RSD	.5892836	1.397720	.3115732	.4623798	.3024703	.5749618
#1	.7922497	.0052486	.0090767	144.7994	.1255964	.1531950
#2	.7925608	.0051374	.0091308	144.5309	.1262373	.1537589
#3	.7843493	.0052748	.0091187	143.5332	.1255614	.1520337

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2620948**	**199.1021**	**12.63049**	**20.07222**	**.1749497**	**-.017492**
Stddev	.0013659	.7967	.06758	.04573	.0007857	.000284
%RSD	.5211421	.4001523	.5350541	.2278356	.4490991	1.626005
#1	.2634047	199.7765	12.69377	20.12500	.1753280	-.017310
#2	.2622007	199.3067	12.63840	20.04439	.1754746	-.017346
#3	.2606791	198.2230	12.55931	20.04727	.1740464	-.017820

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5913095**	**.1762956**	**.7346575**	**5.173023**	**9.028642**	**.8240243**
Stddev	.1069731	.0021224	.0006171	.054038	.032538	.0051659
%RSD	18.09089	1.203904	.0839931	1.044617	.3603846	.6269120
#1	.4686723	.1747727	.7351775	5.172814	9.065249	.8281943
#2	.6654087	.1753941	.7339756	5.227166	9.017664	.8256332
#3	.6398473	.1787199	.7348194	5.119090	9.003013	.8182454

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-14 Acquired: 1/12/2025 13:37:05 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNB4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048887	.8856853	F 16.12873	.0241823	1.055730	.0778641
Stddev	.0001088	.0043240	.08357	.0006837	.002440	.0006336
%RSD	2.226144	.4882108	.5181206	2.827083	.2311092	.8137737
#1	.0050142	.8844816	16.20014	.0243620	1.058402	.0785953
#2	.0048308	.8904836	16.03682	.0234268	1.055169	.0775189
#3	.0048210	.8820906	16.14923	.0247583	1.053620	.0774779

Elem	Sr4077
Units	ppm
Avg	.2009296
Stddev	.0007029
%RSD	.3498229
#1	.2010735
#2	.2015494
#3	.2001659

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3351.870	78467.12	11360.89	3717.773	3289.990
Stddev	2.874	191.13	46.54	5.125	2.797
%RSD	.0857371	.2435788	.4096708	.1378636	.0850255
#1	3351.887	78312.61	11344.50	3716.979	3287.551
#2	3354.735	78407.91	11413.41	3713.090	3289.376
#3	3348.988	78680.85	11324.76	3723.249	3293.044

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-15 Acquired: 1/12/2025 13:41:00 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1465671**	**-.005558**	**3.273531**	**.0488632**	**-.002634**	**68.64859**
Stddev	.0037422	.001882	.011219	.0012835	.001209	.25457
%RSD	2.553238	33.86398	.3427290	2.626776	45.90195	.3708360
#1	.1451024	-.007249	3.272894	.0493042	-.003473	68.47643
#2	.1508201	-.003530	3.262643	.0474173	-.001248	68.52832
#3	.1437787	-.005896	3.285055	.0498681	-.003182	68.94101

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.297173**	**.0059603**	**.0117079**	**101.1009**	**.1625518**	**.0941046**
Stddev	.005858	.0001297	.0001630	.3544	.0004257	.0002847
%RSD	.4515924	2.176293	1.392452	.3505539	.2618806	.3025370
#1	1.294962	.0060347	.0115474	100.8442	.1625978	.0940536
#2	1.292742	.0060358	.0117029	100.9532	.1629526	.0938489
#3	1.303814	.0058106	.0118733	101.5052	.1621049	.0944114

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4356409**	**238.0755**	**9.164805**	**35.18953**	**.2121114**	**-.020504**
Stddev	.0013330	.6690	.031165	.10881	.0006529	.000226
%RSD	.3059958	.2809896	.3400504	.3092108	.3077957	1.100462
#1	.4349208	237.6175	9.150622	35.08717	.2118431	-.020741
#2	.4348227	237.7659	9.143254	35.17762	.2116355	-.020291
#3	.4371791	238.8432	9.200539	35.30381	.2128557	-.020481

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8735674**	**.1641689**	**2.178976**	**5.927246**	**9.837234**	**1.000874**
Stddev	.0963370	.0003494	.002100	.025912	.051303	.004681
%RSD	11.02799	.2128120	.0963717	.4371620	.5215233	.4677023
#1	.8625618	.1639445	2.176552	5.911610	9.820072	.997774
#2	.9749345	.1639908	2.180152	5.912973	9.796712	.998589
#3	.7832059	.1645714	2.180224	5.957156	9.894919	1.006259

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-15 Acquired: 1/12/2025 13:41:00 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0056901	4.007067	F 19.07098	.1332112	1.275578	.0749190
Stddev	.0003223	.021932	.00920	.0011678	.002376	.0006320
%RSD	5.664621	.5473364	.0482649	.8766690	.1862891	.8436096
#1	.0054905	4.005809	19.06978	.1323673	1.277964	.0743507
#2	.0060620	3.985792	19.06244	.1327223	1.273212	.0755997
#3	.0055178	4.029602	19.08073	.1345440	1.275557	.0748066

Elem	Sr4077
Units	ppm
Avg	.2169304
Stddev	.0010699
%RSD	.4931912
#1	.2164498
#2	.2161852
#3	.2181564

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3010.408	70433.07	9986.894	3324.467	3442.030
Stddev	7.602	217.01	38.316	5.004	13.535
%RSD	.2525348	.3081067	.3836625	.1505346	.3932156
#1	3016.423	70656.75	9984.503	3328.416	3448.253
#2	3012.937	70223.41	9949.830	3318.839	3451.334
#3	3001.863	70419.04	10026.35	3326.146	3426.503

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-16 Acquired: 1/12/2025 13:44:54 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0997992**	**-.003794**	**3.458991**	**.0293530**	**-.002183**	**60.25767**
Stddev	.0006306	.001929	.004353	.0015897	.000899	.23573
%RSD	.6318632	50.83185	.1258440	5.415644	41.17296	.3912109
#1	.1002461	-.001583	3.457280	.0278858	-.001681	60.45565
#2	.0990779	-.005127	3.455754	.0310418	-.001647	59.99690
#3	.1000737	-.004672	3.463940	.0291313	-.003220	60.32046

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.222204**	**.0047403**	**.0081755**	**123.6367**	**.1453341**	**.0859946**
Stddev	.006068	.0001794	.0001192	.4566	.0002509	.0004788
%RSD	.4964817	3.783704	1.457353	.3692768	.1726433	.5567166
#1	1.227563	.0046169	.0080504	124.0388	.1451798	.0857138
#2	1.215616	.0046580	.0082877	123.1404	.1456236	.0857226
#3	1.223434	.0049460	.0081883	123.7310	.1451988	.0865474

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3907668**	**150.5370**	**9.109750**	**32.13756**	**.1950901**	**-.012225**
Stddev	.0020636	.4852	.039598	.07465	.0005924	.000542
%RSD	.5280944	.3222938	.4346815	.2322876	.3036599	4.436627
#1	.3910398	150.9094	9.143114	32.20519	.1955050	-.011882
#2	.3885803	149.9883	9.065991	32.15004	.1944116	-.012851
#3	.3926804	150.7132	9.120145	32.05746	.1953537	-.011944

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6196722**	**.1498504**	**1.828711**	**5.117370**	**9.096932**	**.6367986**
Stddev	.1134480	.0012761	.003907	.016055	.028419	.0015867
%RSD	18.30775	.8515637	.2136525	.3137263	.3124034	.2491738
#1	.6368196	.1487054	1.824500	5.109232	9.070592	.6385463
#2	.7235704	.1496197	1.829415	5.107015	9.093152	.6354485
#3	.4986266	.1512261	1.832219	5.135864	9.127052	.6364010

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-16 Acquired: 1/12/2025 13:44:54 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045399	2.653347	F 19.42919	.1322523	1.029590	.0718360
Stddev	.0001960	.011168	.02486	.0010376	.002170	.0004849
%RSD	4.317660	.4209148	.1279342	.7845688	.2107624	.6749498
#1	.0043628	2.645604	19.44004	.1313153	1.031742	.0716747
#2	.0047505	2.648288	19.40076	.1320741	1.027402	.0723809
#3	.0045063	2.666150	19.44678	.1333674	1.029627	.0714523

Elem	Sr4077
Units	ppm
Avg	.2084186
Stddev	.0005268
%RSD	.2527559
#1	.2089519
#2	.2078985
#3	.2084055

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2945.296	69348.09	9716.433	3246.552	3405.920
Stddev	5.446	277.20	27.393	1.747	9.454
%RSD	.1849077	.3997223	.2819294	.0537983	.2775792
#1	2950.763	69034.00	9689.930	3246.439	3412.288
#2	2945.254	69558.55	9714.732	3248.352	3410.414
#3	2939.871	69451.71	9744.638	3244.864	3395.057

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-17 Acquired: 1/12/2025 13:48:50 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1110451**	**-.004378**	**3.653111**	**.0324147**	**-.003612**	**69.22877**
Stddev	.0029035	.001104	.011995	.0004476	.000187	.65177
%RSD	2.614733	25.20701	.3283438	1.380838	5.184009	.9414704
#1	.1077611	-.005583	3.646455	.0322997	-.003828	68.57963
#2	.1132719	-.003417	3.645919	.0320358	-.003510	69.22352
#3	.1121022	-.004133	3.666957	.0329085	-.003497	69.88314

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.371043**	**.0050206**	**.0078847**	**135.2598**	**.1502655**	**.0949237**
Stddev	.016062	.0001697	.0001029	.9915	.0003962	.0008348
%RSD	1.171507	3.380311	1.304873	.7330580	.2636795	.8794351
#1	1.355732	.0050060	.0080027	134.2917	.1501830	.0955194
#2	1.369633	.0051971	.0078383	135.2143	.1506965	.0939696
#3	1.387763	.0048587	.0078133	136.2732	.1499171	.0952822

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3695188**	**170.5591**	**9.907877**	**35.95102**	**.1788154**	**-.012889**
Stddev	.0011536	1.2929	.072764	.19501	.0005274	.000208
%RSD	.3121778	.7580207	.7344022	.5424309	.2949494	1.609981
#1	.3701734	169.2999	9.837445	35.73599	.1785119	-.013063
#2	.3701960	170.4942	9.903419	36.00065	.1785099	-.012943
#3	.3681868	171.8832	9.982767	36.11642	.1794245	-.012659

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8366277**	**.1690893**	**1.637058**	**5.646311**	F **10.18891**	**.7222031**
Stddev	.0622075	.0012388	.005370	.054915	.01458	.0064688
%RSD	7.435510	.7326505	.3280425	.9725822	.1431326	.8956979
#1	.7649747	.1687885	1.631693	5.585049	10.20293	.7158696
#2	.8768319	.1680285	1.637048	5.662769	10.18997	.7219407
#3	.8680764	.1704508	1.642434	5.691116	10.17382	.7287991

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-17 Acquired: 1/12/2025 13:48:50 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047891	2.389493	F 19.94144	.1790408	1.181787	.0770451
Stddev	.0003163	.001927	.06137	.0007638	.003478	.0013599
%RSD	6.603894	.0806265	.3077346	.4266163	.2943120	1.765092
#1	.0050977	2.390116	20.01093	.1784232	1.185568	.0758249
#2	.0044657	2.387332	19.91870	.1788044	1.181071	.0767992
#3	.0048038	2.391030	19.89469	.1798949	1.178724	.0785112

Elem	Sr4077
Units	ppm
Avg	.2376925
Stddev	.0027472
%RSD	1.155792
#1	.2349309
#2	.2377214
#3	.2404251

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2986.176	68789.98	9825.801	3256.007	3417.031
Stddev	3.192	103.61	112.654	15.002	4.906
%RSD	.1068794	.1506199	1.146513	.4607347	.1435786
#1	2982.642	68879.10	9717.884	3270.556	3413.606
#2	2988.848	68676.29	9816.860	3240.590	3422.652
#3	2987.038	68814.55	9942.659	3256.873	3414.835

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-18 Acquired: 1/12/2025 13:52:46 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0672152**	**-.004155**	**.6216785**	**.0352449**	**-.002632**	**86.25027**
Stddev	.0012273	.001348	.0014107	.0040027	.000301	.23499
%RSD	1.825962	32.43035	.2269240	11.35687	11.45082	.2724499
#1	.0661734	-.005706	.6233067	.0306444	-.002979	86.25103
#2	.0669041	-.003495	.6209090	.0379305	-.002474	86.48488
#3	.0685681	-.003265	.6208199	.0371598	-.002442	86.01490

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5409554**	**.0046567**	**.0052662**	**40.31388**	**.1400723**	**.1137024**
Stddev	.0017198	.0001394	.0000670	.09219	.0006722	.0002321
%RSD	.3179193	2.994085	1.272162	.2286878	.4798964	.2041122
#1	.5414194	.0047614	.0053425	40.33239	.1408478	.1134344
#2	.5423956	.0047102	.0052391	40.39542	.1397132	.1138364
#3	.5390512	.0044984	.0052171	40.21384	.1396560	.1138365

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1540791**	**177.4280**	**10.05838**	**26.91431**	**.1551658**	**-.014750**
Stddev	.0004297	.4915	.04039	.06039	.0001571	.000209
%RSD	.2788521	.2770280	.4015295	.2243800	.1012389	1.419386
#1	.1541801	177.3154	10.06932	26.84663	.1552088	-.014961
#2	.1544492	177.9661	10.09216	26.96268	.1549917	-.014747
#3	.1536079	177.0026	10.01364	26.93364	.1552969	-.014543

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4927315**	**.1963597**	**.6135282**	**3.450675**	**4.440473**	**.7324816**
Stddev	.2540806	.0024207	.0045652	.042246	.015591	.0020782
%RSD	51.56572	1.232802	.7440945	1.224279	.3511038	.2837169
#1	.2093987	.1952101	.6180528	3.478866	4.457605	.7325565
#2	.5684522	.1947279	.6136085	3.471057	4.436699	.7345214
#3	.7003435	.1991410	.6089234	3.402102	4.427116	.7303670

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-18 Acquired: 1/12/2025 13:52:46 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030001	.7256383	F 21.74033	.0306737	1.429092	.0844068
Stddev	.0001835	.0025056	.04054	.0011434	.004614	.0006547
%RSD	6.117965	.3452897	.1864648	3.727499	.3228501	.7756263
#1	.0030795	.7252266	21.75664	.0312422	1.428970	.0851341
#2	.0027902	.7233641	21.77018	.0314214	1.433765	.0842218
#3	.0031305	.7283243	21.69418	.0293575	1.424540	.0838646

Elem	Sr4077
Units	ppm
Avg	.1272952
Stddev	.0004264
%RSD	.3349831
#1	.1271338
#2	.1277788
#3	.1269731

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2797.417	65410.90	9258.868	3125.601	3416.639
Stddev	7.806	226.18	26.827	13.170	8.275
%RSD	.2790542	.3457824	.2897429	.4213534	.2421993
#1	2792.771	65154.10	9231.203	3111.569	3415.214
#2	2793.051	65498.07	9284.769	3127.540	3409.170
#3	2806.430	65580.52	9260.632	3137.693	3425.534

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-19 Acquired: 1/12/2025 13:56:43 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0675344**	**-.005544**	**.1980816**	**.0405445**	**-.005872**	**87.06006**
Stddev	.0010695	.000302	.0014256	.0035934	.001500	.40758
%RSD	1.583581	5.438242	.7197171	8.862815	25.54006	.4681642
#1	.0682029	-.005869	.1996045	.0436339	-.004630	86.77274
#2	.0663009	-.005491	.1967788	.0413985	-.007538	86.88089
#3	.0680993	-.005273	.1978617	.0366010	-.005447	87.52653

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5740380**	**.0055824**	**.0063613**	**20.12436**	**.1351524**	**.1071452**
Stddev	.0041691	.0000471	.0001039	.08251	.0005669	.0001304
%RSD	.7262683	.8440673	1.633645	.4100167	.4194127	.1216603
#1	.5735976	.0056004	.0064726	20.10526	.1347437	.1072712
#2	.5701066	.0055289	.0063444	20.05308	.1349140	.1070109
#3	.5784098	.0056178	.0062669	20.21476	.1357995	.1071536

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1660246**	**219.8643**	**11.78293**	**25.02634**	**.1778522**	**-.019695**
Stddev	.0001920	1.0257	.07587	.06388	.0004693	.000157
%RSD	.1156205	.4665351	.6439213	.2552502	.2638771	.7991032
#1	.1659932	219.2303	11.76107	24.95782	.1782357	-.019779
#2	.1658503	219.3148	11.72039	25.03695	.1779919	-.019513
#3	.1662303	221.0477	11.86733	25.08425	.1773289	-.019792

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6788230**	**.2031272**	**.3821719**	**5.231561**	**2.757557**	**.9022009**
Stddev	.1919672	.0011644	.0021340	.058569	.009233	.0062445
%RSD	28.27943	.5732227	.5583937	1.119539	.3348141	.6921375
#1	.4597657	.2034881	.3820363	5.179604	2.763596	.8978000
#2	.7589944	.2040685	.3801089	5.220047	2.762146	.8994548
#3	.8177088	.2018252	.3843704	5.295033	2.746929	.9093478

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-19 Acquired: 1/12/2025 13:56:43 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033154	.4272711	F 16.66912	.0096425	1.145887	.0818690
Stddev	.0002434	.0023177	.00650	.0007049	.004967	.0004393
%RSD	7.340017	.5424336	.0389884	7.310298	.4334319	.5365938
#1	.0030993	.4251060	16.67486	.0104468	1.151322	.0822684
#2	.0032680	.4297159	16.66207	.0091319	1.144754	.0813985
#3	.0035790	.4269915	16.67045	.0093488	1.141585	.0819402

Elem	Sr4077
Units	ppm
Avg	.0819863
Stddev	.0004164
%RSD	.5079033
#1	.0818266
#2	.0816734
#3	.0824589

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3287.463	76345.72	10798.05	3627.406	3485.158
Stddev	4.954	198.42	57.78	1.869	7.442
%RSD	.1506789	.2598923	.5350974	.0515369	.2135274
#1	3281.769	76569.75	10800.13	3629.286	3476.596
#2	3289.831	76192.16	10739.27	3625.547	3488.797
#3	3290.787	76275.24	10854.77	3627.385	3490.080

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV008 Acquired: 1/12/2025 14:00:39 Type: Unk
Method: EPA SFAM01.0(v33) 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	**4.550647**	**4.701341**	**23.39902**	**4.605308**	**4.525334**	**371.9584**
Stddev	.014485	.028000	.02194	.017219	.007743	3.1655
%RSD	.3183158	.5955673	.0937607	.3738892	.1711055	.8510297
#1	4.565748	4.730811	23.41868	4.623410	4.530252	372.7357
#2	4.536868	4.698122	23.37535	4.603380	4.516409	368.4768
#3	4.549325	4.675090	23.40303	4.589135	4.529342	374.6629

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.619383**	**.5168109**	**2.403437**	**379.3187**	**14.93259**	**2.371645**
Stddev	.026666	.0036865	.000742	2.5101	.04947	.002734
%RSD	.2772060	.7133147	.0308836	.6617338	.3312821	.1152682
#1	9.649553	.5133028	2.404194	380.1945	14.96448	2.373418
#2	9.598974	.5164770	2.403408	381.2735	14.95769	2.373021
#3	9.609621	.5206530	2.402710	376.4881	14.87560	2.368497

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.33301**	**379.6123**	**14.40364**	**239.1118**	**2.367696**	**1.191650**
Stddev	.00249	2.9685	.11732	1.6329	.001014	.005154
%RSD	.0173648	.7819696	.8145234	.6829110	.0428378	.4324949
#1	14.33078	382.4510	14.53029	240.7035	2.367513	1.196066
#2	14.33257	379.8568	14.38197	239.1912	2.368790	1.192897
#3	14.33569	376.5292	14.29867	237.4406	2.366786	1.185988

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**379.2587**	**2.349520**	**14.92226**	**139.5309**	**4.685756**	F **5.682619**
Stddev	.9148	.003381	.01972	1.1712	.008987	.011364
%RSD	.2412009	.1439164	.1321800	.8394063	.1917972	.1999823
#1	378.6592	2.353183	14.94362	140.6511	4.693946	5.679274
#2	378.8053	2.346518	14.90473	139.6269	4.687179	5.673302
#3	380.3117	2.348859	14.91842	138.3146	4.676142	5.695280

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV008 Acquired: 1/12/2025 14:00:39 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV008 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 4.493327	4.701353	4.727880	4.682593	4.707883	F 4.471092
Stddev	.011406	.008716	.018145	.004102	.014627	.036246
%RSD	.2538427	.1853985	.3837814	.0876052	.3106904	.8106717
#1	4.506405	4.711061	4.728529	4.687329	4.704400	4.509930
#2	4.485440	4.694199	4.709419	4.680321	4.695313	4.465182
#3	4.488136	4.698800	4.745691	4.680129	4.723938	4.438165

Elem	Sr4077
Units	ppm
Avg	4.794425
Stddev	.035673
%RSD	.7440594
#1	4.834948
#2	4.780570
#3	4.767758

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2114.581	52275.32	8031.420	2471.176	2834.391
Stddev	4.072	117.94	53.190	8.366	3.166
%RSD	.1925877	.2256142	.6622731	.3385507	.1116893
#1	2112.983	52168.76	8080.224	2462.606	2836.474
#2	2119.210	52255.16	8039.311	2479.322	2835.952
#3	2111.550	52402.04	7974.725	2471.599	2830.748

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB008 Acquired: 1/12/2025 14:04:56 Type: Unk
Method: EPA SFAM01.0(v33) 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	**.0006023**	**-.000318**	**.0009055**	**.0026782**	**.0003815**	**.0006299**	**-.004698**
Stddev	.0014546	.000712	.0008049	.0028435	.0004394	.0115809	.000926
%RSD	241.5137	224.1578	88.89342	106.1710	115.1804	1838.591	19.70938
#1	.0008548	.000347	.0017871	.0007451	.0000293	.0139197	-.005493
#2	.0019141	-.001068	.0007195	.0059431	.0008739	-.004730	-.003681
#3	-.000962	-.000231	.0002098	.0013464	.0002413	-.007300	-.004921

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000070**	**.0000322**	**.0207689**	**.0002162**	**.0000959**	**.0001642**	**.0247091**
Stddev	.000115	.0000287	.0089850	.0001962	.0001731	.0007707	.0047603
%RSD	165.8214	89.29940	43.26176	90.78335	180.4777	469.4661	19.26547
#1	.000060	.0000619	.0272253	.0000831	.0001001	.0006461	.0268995
#2	-.000108	.0000301	.0245739	.0004416	.0002669	.0005711	.0279799
#3	-.000161	.0000045	.0105075	.0001238	-.000079	-.000725	.0192479

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005362**	**.0067277**	**-.000073**	**.0000241**	**.1481179**	**-.001112**	**.0004653**
Stddev	.0001356	.0142556	.000199	.0004202	.1159564	.000521	.0003176
%RSD	25.29304	211.8933	271.9128	1743.291	78.28655	46.87862	68.25517
#1	.0005535	.0225405	-.000303	-.000451	.1257465	-.001668	.0002776
#2	.0003927	.0027823	.000037	.000178	.2736301	-.000635	.0008319
#3	.0006623	-.005140	.000046	.000345	.0449772	-.001033	.0002863

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0164320**	**-.003531**	**.0008212**	**.0002687**	**.0010695**	**.0092597**	**-.000529**
Stddev	.0456876	.000764	.0002788	.0003245	.0007440	.0075762	.000595
%RSD	278.0401	21.63516	33.94895	120.7875	69.57096	81.81985	112.5100
#1	-.013742	-.003733	.0006472	.0006145	.0003634	.0088363	-.000866
#2	.068996	-.002686	.0006736	.0002206	.0018464	.0170387	.000158
#3	-.005958	-.004173	.0011427	-.000029	.0009985	.0019040	-.000878

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB008 Acquired: 1/12/2025 14:04:56 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB008 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000262	-.002442	.0001335
Stddev	.001181	.001350	.0000644
%RSD	451.7775	55.25787	48.20037
#1	.000888	-.001026	.0001319
#2	-.001473	-.002588	.0000700
#3	-.000200	-.003713	.0001986

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2646.852	62252.21	8223.879	2928.131	3766.062
Stddev	3.292	156.95	50.836	3.857	6.051
%RSD	.1243558	.2521259	.6181535	.1317370	.1606588
#1	2644.320	62073.50	8282.423	2926.338	3762.348
#2	2645.664	62367.70	8190.901	2925.496	3762.794
#3	2650.573	62315.41	8198.312	2932.558	3773.044

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-20 Acquired: 1/12/2025 14:09:05 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE7D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0680030**	**-.006853**	**.2012559**	**.0372103**	**-.005500**	**83.04090**
Stddev	.0005496	.001109	.0003438	.0026145	.001665	.24608
%RSD	.8082191	16.17565	.1708310	7.026222	30.26603	.2963388
#1	.0677481	-.006597	.2016430	.0385636	-.006907	82.78320
#2	.0686337	-.008067	.2011388	.0388708	-.003662	83.06605
#3	.0676270	-.005895	.2009860	.0341966	-.005931	83.27343

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5530588**	**.0059318**	**.0068674**	**19.32822**	**.1333937**	**.1075751**
Stddev	.0025795	.0001907	.0001127	.06916	.0001751	.0003085
%RSD	.4664004	3.214259	1.641224	.3578176	.1312935	.2867607
#1	.5502614	.0059288	.0069174	19.28386	.1332937	.1079204
#2	.5535715	.0061240	.0069464	19.29289	.1335959	.1074784
#3	.5553434	.0057427	.0067383	19.40791	.1332915	.1073267

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1653295**	**209.6769**	**11.39072**	**23.91907**	**.1781140**	**-.020484**
Stddev	.0012038	.9008	.05450	.09388	.0006726	.000123
%RSD	.7280902	.4295944	.4784879	.3925105	.3776249	.5983827
#1	.1645203	208.7757	11.33339	23.84113	.1787801	-.020615
#2	.1667129	209.6779	11.39688	23.89280	.1781268	-.020372
#3	.1647554	210.5772	11.44188	24.02330	.1774351	-.020465

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5028175**	**.2034958**	**.3754857**	**4.992176**	**2.837821**	**.8534876**
Stddev	.1297826	.0025333	.0027560	.028236	.006679	.0041689
%RSD	25.81108	1.244877	.7339784	.5655960	.2353596	.4884484
#1	.4616438	.2006024	.3727514	4.963638	2.839484	.8501470
#2	.6481924	.2045703	.3754428	5.020099	2.843511	.8521563
#3	.3986162	.2053147	.3782628	4.992790	2.830467	.8581595

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-20 Acquired: 1/12/2025 14:09:05 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE7D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030848	.4329474	F 16.74291	.0101414	1.149472	.0776944
Stddev	.0004205	.0075462	.08175	.0007778	.004218	.0014497
%RSD	13.63035	1.742991	.4882391	7.669550	.3669167	1.865943
#1	.0026193	.4366237	16.64854	.0108410	1.145050	.0760354
#2	.0031982	.4242675	16.79191	.0102795	1.153450	.0787175
#3	.0034370	.4379510	16.78828	.0093038	1.149915	.0783303

Elem	Sr4077
Units	ppm
Avg	.0781162
Stddev	.0002865
%RSD	.3667446
#1	.0777883
#2	.0782420
#3	.0783182

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3229.115	77339.63	10504.04	3635.739	3422.327
Stddev	6.271	130.57	58.14	12.208	9.976
%RSD	.1942121	.1688207	.5534607	.3357671	.2914962
#1	3222.155	77358.57	10534.08	3649.718	3411.920
#2	3234.326	77200.63	10437.03	3630.320	3423.253
#3	3230.865	77459.69	10541.00	3627.180	3431.807

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-19LX5 Acquired: 1/12/2025 14:13:00 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE7L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0144013**	**-.001012**	**.0396835**	**.0093639**	**-.001186**	**19.57464**	**.1274245**
Stddev	.0014624	.000516	.0028433	.0012972	.000857	.07401	.0007990
%RSD	10.15485	51.03538	7.164858	13.85313	72.30779	.3781039	.6270641
#1	.0127277	-.001126	.0389702	.0095793	-.002138	19.62206	.1271292
#2	.0154328	-.001462	.0372649	.0079724	-.000945	19.48935	.1283292
#3	.0150435	-.000448	.0428155	.0105398	-.000475	19.61250	.1268152

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014455**	**.0009153**	**4.630303**	**.0315622**	**.0205807**	**.0394379**	**50.69135**
Stddev	.0000466	.0000420	.006877	.0002911	.0000799	.0023199	.17337
%RSD	3.221520	4.584708	.1485217	.9223173	.3883483	5.882385	.3420193
#1	.0014989	.0009627	4.638243	.0317680	.0205827	.0390527	50.81835
#2	.0014134	.0009001	4.626363	.0312291	.0204998	.0373348	50.49383
#3	.0014242	.0008831	4.626302	.0316893	.0206596	.0419263	50.76188

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.710722**	**5.724392**	**.0342309**	**-.004925**	**.4034145**	**.0477553**	**.0891847**
Stddev	.006299	.011858	.0002855	.000023	.2860036	.0009736	.0006598
%RSD	.2323566	.2071548	.8340347	.4588768	70.89572	2.038739	.7397787
#1	2.715910	5.735220	.0343472	-.004912	.3874823	.0485152	.0896020
#2	2.703714	5.711719	.0339056	-.004912	.1257099	.0480928	.0884240
#3	2.712543	5.726237	.0344399	-.004951	.6970512	.0466578	.0895279

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.196640**	**.5358852**	**.2040306**	**.0006033**	**.0802231**	**4.030952**	**.0007189**
Stddev	.081421	.0032622	.0005683	.0001697	.0033468	.010385	.0003275
%RSD	6.804146	.6087533	.2785243	28.13097	4.171855	.2576375	45.55929
#1	1.157621	.5392105	.2044887	.0006919	.0827742	4.024795	.0006619
#2	1.142072	.5326900	.2033947	.0004076	.0814615	4.042942	.0010712
#3	1.290227	.5357550	.2042085	.0007103	.0764336	4.025118	.0004236

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-19LX5 Acquired: 1/12/2025 14:13:00 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE7L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2734791	.0188224	.0182273
Stddev	.0009327	.0004857	.0000553
%RSD	.3410678	2.580165	.3031448
#1	.2729047	.0183143	.0181920
#2	.2729773	.0188709	.0181989
#3	.2745554	.0192820	.0182910

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2785.300	64421.44	8720.258	3059.223	3668.030
Stddev	2.472	229.59	25.093	16.545	5.537
%RSD	.0887592	.3563841	.2877610	.5408192	.1509462
#1	2784.585	64156.65	8711.725	3040.277	3668.579
#2	2788.051	64565.07	8700.544	3066.568	3673.271
#3	2783.265	64542.59	8748.505	3070.823	3662.239

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-21 Acquired: 1/12/2025 14:17:04 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE7S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1159847**	**.0864597**	**.2317651**	**.1606867**	**.1152651**	**86.15336**
Stddev	.0010430	.0007693	.0013956	.0009023	.0006308	.62777
%RSD	.8992333	.8897629	.6021666	.5615088	.5472322	.7286711
#1	.1153261	.0872089	.2331219	.1615669	.1150115	86.37863
#2	.1171872	.0864984	.2318398	.1607292	.1159832	85.44403
#3	.1154409	.0856718	.2303337	.1597639	.1148007	86.63741

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.190654**	**.0795888**	**.0967315**	**19.32207**	**.4432576**	**1.009971**
Stddev	.026901	.0004545	.0004551	.11867	.0009158	.002382
%RSD	.8431057	.5710435	.4704525	.6141889	.2066150	.2358609
#1	3.195902	.0795618	.0972568	19.36434	.4442186	1.010541
#2	3.161516	.0800562	.0964552	19.18805	.4423949	1.007356
#3	3.214543	.0791484	.0964827	19.41383	.4431591	1.012016

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5156339**	**212.7927**	**12.01060**	**24.14448**	**1.082510**	**.0341154**
Stddev	.0026012	1.4893	.07206	.13840	.002924	.0005297
%RSD	.5044648	.6998660	.5999746	.5732126	.2701209	1.552774
#1	.5169744	213.2562	12.01357	24.20368	1.085024	.0343440
#2	.5126358	211.1268	11.93710	23.98632	1.079301	.0335098
#3	.5172913	213.9951	12.08113	24.24343	1.083204	.0344925

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5442250**	**.9476943**	**1.150493**	**4.924633**	**2.759983**	**.8661613**
Stddev	.0708481	.0032868	.004866	.024751	.003993	.0067867
%RSD	13.01817	.3468221	.4229607	.5026020	.1446857	.7835414
#1	.5310121	.9486650	1.155238	4.899465	2.764564	.8681473
#2	.4809136	.9440315	1.150726	4.948945	2.757238	.8586031
#3	.6207495	.9503865	1.145514	4.925489	2.758146	.8717335

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-21 Acquired: 1/12/2025 14:17:04 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE7S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028003	.4327105	F 16.75831	.0104194	1.140317	.0786298
Stddev	.0005448	.0051696	.02083	.0007042	.002842	.0005894
%RSD	19.45656	1.194704	.1243085	6.758242	.2492486	.7495383
#1	.0032570	.4270365	16.73427	.0096585	1.138792	.0780363
#2	.0029468	.4371536	16.77106	.0105515	1.138562	.0786383
#3	.0021972	.4339413	16.76959	.0110482	1.143596	.0792149

Elem	Sr4077
Units	ppm
Avg	.0773802
Stddev	.0007226
%RSD	.9338761
#1	.0776835
#2	.0765554
#3	.0779018

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3241.281	77297.27	10562.90	3645.753	3441.936
Stddev	7.685	173.98	36.53	9.429	11.432
%RSD	.2371101	.2250809	.3458231	.2586319	.3321453
#1	3233.760	77303.89	10574.82	3639.847	3431.934
#2	3249.121	77467.84	10521.90	3640.785	3454.398
#3	3240.961	77120.07	10591.98	3656.627	3439.476

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-22 Acquired: 1/12/2025 14:20:56 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0512215**	**-.006148**	**.1094512**	**.0370137**	**-.005677**	**97.99093**
Stddev	.0009178	.001132	.0015228	.0020746	.000289	.54313
%RSD	1.791866	18.41835	1.391293	5.604895	5.090535	.5542648
#1	.0511974	-.004950	.1105301	.0374574	-.005966	97.58813
#2	.0503159	-.007200	.1101142	.0347532	-.005388	97.77604
#3	.0521511	-.006295	.1077093	.0388306	-.005676	98.60863

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6766803**	**.0054193**	**.0070355**	**22.85281**	**.1504679**	**.1196275**
Stddev	.0048979	.0000946	.0001169	.12124	.0003720	.0004004
%RSD	.7238185	1.746012	1.661504	.5305082	.2472047	.3347369
#1	.6714522	.0053519	.0070351	22.74746	.1501198	.1193419
#2	.6774262	.0055275	.0069189	22.82565	.1508598	.1200853
#3	.6811624	.0053786	.0071527	22.98533	.1504241	.1194554

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1873540**	**191.9539**	**6.648984**	**32.78862**	**.2503189**	**-.018161**
Stddev	.0007591	.9722	.044253	.16052	.0006489	.000436
%RSD	.4051723	.5064794	.6655591	.4895680	.2592206	2.399471
#1	.1879820	191.1574	6.601007	32.68690	.2504886	-.018281
#2	.1875697	191.6670	6.657741	32.70529	.2508661	-.018525
#3	.1865104	193.0372	6.688203	32.97368	.2496021	-.017678

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6993773**	**.1888558**	**.3965291**	**6.670406**	**6.331075**	**.7941450**
Stddev	.2133678	.0025074	.0012685	.019902	.027335	.0055783
%RSD	30.50826	1.327651	.3199116	.2983634	.4317603	.7024260
#1	.5534567	.1860086	.3966663	6.648167	6.332669	.7909048
#2	.9442568	.1907344	.3951975	6.676507	6.357578	.7909441
#3	.6004184	.1898244	.3977234	6.686543	6.302978	.8005862

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-22 Acquired: 1/12/2025 14:20:56 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019239	.5271517	F 15.23683	.0089520	1.417659	.1085659
Stddev	.0001029	.0034131	.06794	.0001079	.001887	.0010096
%RSD	5.345764	.6474690	.4458852	1.205153	.1331010	.9299802
#1	.0018057	.5292480	15.15838	.0088353	1.415564	.1077245
#2	.0019932	.5289939	15.27559	.0089728	1.419225	.1082878
#3	.0019728	.5232133	15.27651	.0090480	1.418188	.1096855

Elem	Sr4077
Units	ppm
Avg	.0850207
Stddev	.0003999
%RSD	.4703940
#1	.0848181
#2	.0847625
#3	.0854813

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3744.647	86795.12	12284.07	4128.899	3450.790
Stddev	9.088	182.16	44.71	6.948	10.431
%RSD	.2426801	.2098689	.3639395	.1682701	.3022680
#1	3742.007	87001.96	12291.27	4131.568	3450.660
#2	3737.172	86724.77	12236.20	4134.117	3440.425
#3	3754.762	86658.63	12324.74	4121.013	3461.286

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-01 Acquired: 1/12/2025 14:24:53 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNC3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0993577**	**-.002928**	**3.691362**	**.0452663**	**.0039841**	**45.70058**
Stddev	.0023220	.000527	.006640	.0049312	.0002997	.24974
%RSD	2.337004	17.98192	.1798665	10.89376	7.521605	.5464715
#1	.0984126	-.002519	3.697718	.0408616	.0041314	45.58308
#2	.0976574	-.002743	3.691896	.0505937	.0036393	45.53127
#3	.1020032	-.003522	3.684471	.0443435	.0041817	45.98740

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.070286**	**.0032501**	**.0129893**	**282.6042**	**.1651142**	**.0755096**
Stddev	.006535	.0000757	.0000869	1.3833	.0005880	.0002488
%RSD	.6105650	2.328048	.6689684	.4894686	.3561392	.3295175
#1	1.065867	.0033123	.0130666	281.7545	.1650073	.0753884
#2	1.067199	.0032721	.0130060	281.8577	.1645869	.0753446
#3	1.077793	.0031659	.0128952	284.2003	.1657483	.0757958

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6392870**	**222.0215**	**5.129482**	**59.84106**	**.2411804**	**-.017516**
Stddev	.0041421	1.2414	.024966	.24394	.0012917	.000145
%RSD	.6479204	.5591301	.4867203	.4076413	.5355572	.8295765
#1	.6387917	221.2901	5.112586	59.76501	.2426706	-.017364
#2	.6436545	221.3194	5.117700	59.64421	.2403823	-.017653
#3	.6354149	223.4548	5.158159	60.11397	.2404882	-.017533

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8767867**	**.1784257**	**5.312009**	**7.216105**	F **12.68331**	**.9685688**
Stddev	.2537154	.0017411	.013054	.049092	.02049	.0045600
%RSD	28.93695	.9758388	.2457372	.6803145	.1615415	.4707994
#1	1.070280	.1777436	5.321943	7.169521	12.69890	.9652913
#2	.589536	.1804046	5.297225	7.211424	12.66010	.9666385
#3	.970544	.1771289	5.316860	7.267370	12.69093	.9737765

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-01 Acquired: 1/12/2025 14:24:53 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNC3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0079303	6.850763	F 19.53488	.4281152	1.057969	.0764442
Stddev	.0003263	.003948	.04381	.0006897	.002532	.0007233
%RSD	4.114068	.0576241	.2242684	.1611026	.2393274	.9461662
#1	.0082767	6.855233	19.50050	.4288500	1.055077	.0763537
#2	.0076288	6.849301	19.58421	.4274817	1.059789	.0757705
#3	.0078854	6.847755	19.51993	.4280140	1.059040	.0772086

Elem	Sr4077
Units	ppm
Avg	.5031100
Stddev	.0023477
%RSD	.4666377
#1	.5020146
#2	.5015101
#3	.5058052

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2783.664	64307.78	9651.833	3045.757	3306.967
Stddev	1.788	337.16	3.682	12.400	2.609
%RSD	.0642222	.5242905	.0381448	.4071263	.0788871
#1	2785.682	64479.76	9648.328	3041.461	3303.991
#2	2782.276	64524.26	9651.502	3059.734	3308.051
#3	2783.036	63919.31	9655.669	3036.077	3308.859

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-02 Acquired: 1/12/2025 14:28:47 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNC4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1062284**	**-.003749**	**4.491593**	**.0456408**	**.0119645**	**49.77548**
Stddev	.0008862	.001457	.005342	.0042434	.0010581	.31026
%RSD	.8342157	38.85385	.1189375	9.297416	8.843454	.6233147
#1	.1057575	-.003691	4.492861	.0410404	.0117132	49.45296
#2	.1056770	-.005235	4.496187	.0464804	.0131256	49.80164
#3	.1072506	-.002323	4.485731	.0494017	.0110547	50.07182

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.154878**	**.0043117**	**.0156896**	**258.8061**	**.1464719**	**.0876715**
Stddev	.006685	.0000367	.0000701	1.2210	.0003853	.0003050
%RSD	.5788355	.8515023	.4468447	.4717849	.2630582	.3479127
#1	1.148039	.0043437	.0157641	257.4071	.1461003	.0874788
#2	1.155199	.0043197	.0156249	259.3540	.1464459	.0875125
#3	1.161397	.0042716	.0156798	259.6572	.1468696	.0880232

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9762237**	**234.3833**	**5.204503**	**64.74142**	**.2595047**	**-.020708**
Stddev	.0022727	1.3069	.028910	.35832	.0007772	.000198
%RSD	.2328071	.5575942	.5554783	.5534708	.2994864	.9581550
#1	.9739701	232.9273	5.171344	64.32931	.2597181	-.020497
#2	.9785151	234.7675	5.224426	64.97941	.2601528	-.020890
#3	.9761861	235.4550	5.217738	64.91554	.2586431	-.020739

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.415968**	**.1412937**	**6.862747**	**7.659714**	F **12.61323**	**1.135866**
Stddev	.039210	.0015639	.036990	.046319	.01080	.006328
%RSD	2.769136	1.106807	.5389948	.6047074	.0855852	.5571332
#1	1.397176	.1425684	6.879973	7.619270	12.61581	1.128692
#2	1.389690	.1417640	6.820285	7.649626	12.60138	1.138249
#3	1.461037	.1395486	6.887981	7.710245	12.62250	1.140656

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-02 Acquired: 1/12/2025 14:28:47 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNC4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0069592	6.508962	F 21.68863	.5027895	1.244054	.0835187
Stddev	.0002369	.011456	.06929	.0014041	.004088	.0011307
%RSD	3.404407	.1760056	.3194860	.2792568	.3286001	1.353847
#1	.0068429	6.511262	21.62976	.5033435	1.240901	.0823110
#2	.0068029	6.496531	21.76499	.5038321	1.248673	.0836930
#3	.0072318	6.519094	21.67114	.5011930	1.242587	.0845522

Elem	Sr4077
Units	ppm
Avg	.5035380
Stddev	.0035251
%RSD	.7000708
#1	.4999850
#2	.5035944
#3	.5070346

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2809.310	66350.71	9696.691	3129.404	3264.849
Stddev	3.359	303.19	43.019	6.604	1.743
%RSD	.1195689	.4569544	.4436484	.2110416	.0533788
#1	2807.591	66669.57	9710.458	3133.317	3265.632
#2	2813.180	66066.09	9648.473	3133.116	3262.852
#3	2807.158	66316.48	9731.141	3121.779	3266.062

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-03 Acquired: 1/12/2025 14:32:40 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNC5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3207874**	**.0002254**	**2.026779**	**.1324490**	**.0136598**	**31.27436**
Stddev	.0012803	.0019001	.006887	.0012183	.0031472	.14337
%RSD	.3991256	842.8716	.3397840	.9198263	23.03985	.4584240
#1	.3212241	.0006517	2.033499	.1326873	.0162624	31.43855
#2	.3217922	.0018762	2.027102	.1335306	.0145550	31.17396
#3	.3193458	-.001852	2.019737	.1311292	.0101620	31.21057

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.193348**	**.0011300**	**.0259028**	**121.3604**	**.1248808**	**.0688544**
Stddev	.005235	.0000598	.0001706	.4463	.0006487	.0004260
%RSD	.4386844	5.296927	.6586750	.3677595	.5194602	.6187461
#1	1.199174	.0010634	.0260720	121.8500	.1255649	.0691354
#2	1.191830	.0011471	.0257309	121.2550	.1242745	.0690635
#3	1.189040	.0011794	.0259055	120.9762	.1248029	.0683642

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5890827**	**586.4937**	**4.642523**	**25.29831**	**.1665137**	**-.061374**
Stddev	.0018828	.8815	.017698	.06474	.0013156	.000465
%RSD	.3196153	.1502929	.3812103	.2559228	.7900693	.7569059
#1	.5881322	587.5050	4.662569	25.37210	.1679084	-.061092
#2	.5912513	585.8881	4.635940	25.25105	.1663379	-.061120
#3	.5878647	586.0880	4.629060	25.27177	.1652949	-.061910

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.919840**	**.1216903**	**10.55893**	**5.619740**	F **11.39756**	**2.434676**
Stddev	.025185	.0012275	.02303	.048290	.03967	.007227
%RSD	.8625343	1.008717	.2181192	.8592942	.3480658	.2968286
#1	2.927956	.1203588	10.54893	5.600244	11.44334	2.442703
#2	2.939966	.1227769	10.54258	5.674730	11.37590	2.428687
#3	2.891598	.1219353	10.58527	5.584245	11.37343	2.432637

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-03 Acquired: 1/12/2025 14:32:40 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNC5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0153021	F 26.17827	F 19.47147	.1290486	1.561152	.0589167
Stddev	.0004302	.08732	.04222	.0016581	.006721	.0003028
%RSD	2.811216	.3335689	.2168404	1.284869	.4304879	.5139174
#1	.0157729	26.27909	19.43301	.1279737	1.554625	.0591481
#2	.0149295	26.12640	19.51665	.1309581	1.568051	.0590280
#3	.0152040	26.12933	19.46474	.1282138	1.560779	.0585740

Elem	Sr4077
Units	ppm
Avg	.5636431
Stddev	.0030200
%RSD	.5358082
#1	.5668711
#2	.5608863
#3	.5631720

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2664.825	63512.43	9087.774	2975.416	3389.622
Stddev	6.862	169.76	42.651	2.508	7.472
%RSD	.2574882	.2672814	.4693188	.0843000	.2204372
#1	2656.903	63340.48	9125.400	2972.742	3380.994
#2	2668.882	63516.90	9041.442	2977.718	3393.958
#3	2668.692	63679.91	9096.480	2975.787	3393.914

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-04 Acquired: 1/12/2025 14:36:41 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNC6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2259045**	**-.003471**	**1.431310**	**.1108012**	**-.001306**	**86.01473**
Stddev	.0027923	.003309	.002937	.0009805	.001346	.59518
%RSD	1.236073	95.34310	.2052273	.8849059	103.0546	.6919492
#1	.2271696	-.000593	1.431288	.1100010	-.002835	86.70016
#2	.2278404	-.002733	1.434258	.1105076	-.000295	85.71537
#3	.2227035	-.007087	1.428383	.1118949	-.000789	85.62867

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8016631**	**.0048476**	**.0134037**	**226.5808**	**.1642304**	**.0788475**
Stddev	.0071648	.0000990	.0000273	1.3210	.0004156	.0001183
%RSD	.8937431	2.041293	.2036689	.5829997	.2530505	.1500109
#1	.8099307	.0047373	.0134318	228.0792	.1646720	.0787741
#2	.7977938	.0049284	.0134021	226.0787	.1641724	.0787845
#3	.7972649	.0048773	.0133772	225.5845	.1638469	.0789839

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3914149**	**475.0522**	**3.571326**	**33.78242**	**.2452906**	**-.051340**
Stddev	.0002895	1.1564	.020705	.21804	.0012228	.000692
%RSD	.0739605	.2434204	.5797499	.6454234	.4985224	1.348586
#1	.3916487	474.5572	3.595124	34.03418	.2441735	-.051601
#2	.3915050	476.3737	3.561413	33.65436	.2451012	-.050556
#3	.3910911	474.2258	3.557442	33.65873	.2465971	-.051865

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.584785**	**.1638587**	**2.833212**	**10.15508**	**5.035101**	**1.982099**
Stddev	.118788	.0017803	.006185	.14005	.004547	.004937
%RSD	4.595649	1.086488	.2182997	1.379137	.0903043	.2490813
#1	2.455786	.1656597	2.834701	10.30954	5.030920	1.981805
#2	2.608912	.1638165	2.826418	10.11934	5.039942	1.987176
#3	2.689657	.1620998	2.838516	10.03636	5.034440	1.977315

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-04 Acquired: 1/12/2025 14:36:41 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNC6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0118595	F 16.74631	F 21.73526	.0586018	.8936783	.1476265
Stddev	.0003528	.05238	.05563	.0010174	.0015168	.0021627
%RSD	2.974506	.3127910	.2559370	1.736152	.1697270	1.465004
#1	.0116392	16.68768	21.67294	.0587413	.8944083	.1501168
#2	.0122664	16.78850	21.75292	.0575218	.8946921	.1465428
#3	.0116729	16.76274	21.77991	.0595422	.8919345	.1462198

Elem	Sr4077
Units	ppm
Avg	.5470819
Stddev	.0045534
%RSD	.8323079
#1	.5523376
#2	.5445835
#3	.5443246

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2616.906	63418.17	8782.920	2962.749	3252.795
Stddev	3.720	176.39	45.305	4.709	3.877
%RSD	.1421530	.2781403	.5158345	.1589566	.1191881
#1	2616.771	63233.61	8834.714	2963.292	3250.926
#2	2613.255	63435.82	8750.650	2957.792	3250.207
#3	2620.691	63585.07	8763.396	2967.164	3257.253

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-05 Acquired: 1/12/2025 14:40:44 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNC7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1920199**	**-.004789**	**1.119968**	**.0343913**	**-.000283**	**53.70108**
Stddev	.0010451	.001095	.002579	.0025171	.001007	.07920
%RSD	.5442916	22.86383	.2302558	7.318963	356.3001	.1474894
#1	.1930490	-.004238	1.120671	.0367142	.000878	53.79178
#2	.1909594	-.006050	1.117110	.0347427	-.000804	53.66588
#3	.1920514	-.004079	1.122122	.0317169	-.000923	53.64557

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7566974**	**.0048173**	**.0081012**	F **974.6396**	**.0965127**	**.0842305**
Stddev	.0018362	.0001749	.0000166	1.9015	.0007150	.0005694
%RSD	.2426616	3.630452	.2043919	.1950998	.7408403	.6760006
#1	.7569434	.0047063	.0080970	976.8342	.0958526	.0843732
#2	.7583982	.0047266	.0081194	973.4816	.0964135	.0836033
#3	.7547506	.0050189	.0080871	973.6031	.0972722	.0847150

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2678645**	**203.9165**	**6.771241**	**127.4051**	**.1927373**	**-.018359**
Stddev	.0025845	.5357	.019423	.3823	.0006825	.000222
%RSD	.9648368	.2627132	.2868452	.3000816	.3540857	1.209842
#1	.2653575	204.5271	6.791189	127.8465	.1922263	-.018303
#2	.2677161	203.5254	6.770145	127.1755	.1924731	-.018171
#3	.2705200	203.6969	6.752389	127.1934	.1935123	-.018604

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.234499**	**.1038484**	**1.140913**	**12.48273**	**5.672305**	**.9190588**
Stddev	.220958	.0008518	.004192	.06594	.021397	.0024621
%RSD	17.89859	.8202360	.3674079	.5282756	.3772222	.2678954
#1	1.394522	.1038420	1.141784	12.55250	5.665940	.9217651
#2	.982392	.1047034	1.144600	12.47425	5.696162	.9184601
#3	1.326584	.1029999	1.136354	12.42143	5.654812	.9169513

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-05 Acquired: 1/12/2025 14:40:44 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNC7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0063883	4.558583	F 20.34720	.0441810	.2557836	.1315257
Stddev	.0003165	.028247	.02515	.0004604	.0004051	.0023981
%RSD	4.954112	.6196481	.1235820	1.042163	.1583919	1.823278
#1	.0060458	4.556011	20.31996	.0437456	.2562471	.1335339
#2	.0066700	4.588028	20.35212	.0446630	.2554969	.1321728
#3	.0064490	4.531709	20.36952	.0441343	.2556068	.1288705

Elem	Sr4077
Units	ppm
Avg	1.035190
Stddev	.001300
%RSD	.1256015
#1	1.036499
#2	1.033899
#3	1.035172

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2709.437	63101.85	9502.108	2990.040	2925.995
Stddev	1.934	205.57	22.810	9.636	4.869
%RSD	.0713726	.3257699	.2400539	.3222595	.1663929
#1	2707.480	62875.38	9513.697	2991.044	2929.819
#2	2709.485	63276.67	9516.797	2979.942	2920.514
#3	2711.346	63153.49	9475.830	2999.135	2927.653

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-06 Acquired: 1/12/2025 14:44:49 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNC8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1120504**	**-.005004**	**.5793539**	**.0171352**	**-.000286**	**45.82647**
Stddev	.0010975	.002310	.0027862	.0024505	.002427	.45383
%RSD	.9794920	46.16647	.4809124	14.30085	850.0128	.9903269
#1	.1119642	-.007606	.5814554	.0199426	-.001692	45.48042
#2	.1109985	-.004213	.5804129	.0160371	-.001682	45.65868
#3	.1131885	-.003193	.5761935	.0154257	.002517	46.34030

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4466359**	**.0041147**	**.0045842**	F **1202.710**	**.0723030**	**.0675501**
Stddev	.0052124	.0000641	.0000318	11.169	.0007770	.0005467
%RSD	1.167040	1.557793	.6931320	.9286424	1.074695	.8092717
#1	.4427652	.0041501	.0045860	1195.768	.0722423	.0681148
#2	.4445798	.0040407	.0045516	1196.769	.0715581	.0670235
#3	.4525628	.0041532	.0046151	1215.594	.0731086	.0675120

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1112371**	**142.6490**	**5.111327**	**146.9320**	**.1621554**	**-.012616**
Stddev	.0003849	1.1644	.055203	1.2689	.0008580	.000454
%RSD	.3459781	.8162668	1.080004	.8636246	.5291087	3.594931
#1	.1115603	141.6564	5.081700	145.8971	.1631122	-.012475
#2	.1108114	142.3598	5.077264	146.5512	.1618994	-.012250
#3	.1113396	143.9307	5.175019	148.3477	.1614545	-.013123

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9490149**	**.0745291**	**.6268912**	**13.19566**	**3.056354**	**.6824633**
Stddev	.0524379	.0017316	.0075714	.13486	.016363	.0048288
%RSD	5.525504	2.323454	1.207772	1.021984	.5353609	.7075555
#1	.9933729	.0726474	.6210094	13.06252	3.075232	.6783788
#2	.8911427	.0748845	.6242304	13.19229	3.046244	.6812185
#3	.9625290	.0760555	.6354339	13.33217	3.047586	.6877927

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-06 Acquired: 1/12/2025 14:44:49 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNC8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0037063	3.154306	F 19.78968	.0088462	.1380292	.1257056
Stddev	.0002943	.010779	.05981	.0004976	.0015612	.0008538
%RSD	7.939678	.3417384	.3022348	5.625196	1.131027	.6792103
#1	.0040356	3.160338	19.72314	.0084681	.1362898	.1250119
#2	.0034691	3.160719	19.83897	.0094100	.1384892	.1266591
#3	.0036141	3.141861	19.80693	.0086607	.1393088	.1254458

Elem	Sr4077
Units	ppm
Avg	1.015777
Stddev	.009036
%RSD	.8895990
#1	1.007264
#2	1.014807
#3	1.025259

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2596.951	60352.76	9309.064	2868.598	2846.976
Stddev	9.009	634.22	19.631	37.430	15.350
%RSD	.3469121	1.050855	.2108780	1.304820	.5391567
#1	2587.148	60658.39	9305.025	2893.668	2830.501
#2	2604.868	60776.29	9330.400	2886.554	2860.874
#3	2598.838	59623.59	9291.767	2825.573	2849.552

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-07 Acquired: 1/12/2025 14:48:52 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNH8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1316033**	**-.000925**	**2.329598**	**.0314400**	**.0003706**	**65.99142**
Stddev	.0006042	.001850	.004030	.0025739	.0022273	.22973
%RSD	.4591011	199.9536	.1729904	8.186595	601.0121	.3481277
#1	.1318096	.001123	2.334096	.0285896	.0002494	66.13625
#2	.1309230	-.002473	2.326317	.0335940	.0026560	66.11148
#3	.1320773	-.001425	2.328381	.0321364	-.001794	65.72653

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.266881**	**.0047864**	**.0101821**	**54.94828**	**.1665053**	**.0764149**
Stddev	.002762	.0000163	.0000727	.20343	.0005784	.0001446
%RSD	.2180316	.3396604	.7136256	.3702296	.3473514	.1892378
#1	1.269135	.0047677	.0102570	55.00755	.1658422	.0764931
#2	1.267708	.0047945	.0101774	55.11550	.1669053	.0765036
#3	1.263799	.0047970	.0101119	54.72179	.1667684	.0762480

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4911304**	**144.4322**	**5.312042**	**14.53082**	**.1557031**	**-.010282**
Stddev	.0033203	.4710	.015384	.05054	.0007671	.000199
%RSD	.6760456	.3261359	.2896138	.3478379	.4926560	1.934623
#1	.4898151	144.6143	5.313945	14.48748	.1565778	-.010249
#2	.4886693	144.7849	5.326387	14.58634	.1551452	-.010496
#3	.4949068	143.8972	5.295795	14.51864	.1553861	-.010102

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6707559**	**.1614817**	**2.705258**	**9.681254**	F **25.57260**	**.6127951**
Stddev	.2515982	.0022275	.007272	.021902	.05105	.0023972
%RSD	37.50965	1.379411	.2688241	.2262300	.1996231	.3911961
#1	.9607986	.1602386	2.701108	9.656440	25.62757	.6132272
#2	.5113092	.1601530	2.701011	9.689431	25.56354	.6149469
#3	.5401599	.1640533	2.713655	9.697891	25.52669	.6102112

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-07 Acquired: 1/12/2025 14:48:52 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNH8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0066702	3.009836	F 21.62282	.1556238	.5531154	.0666707
Stddev	.0001608	.004417	.07853	.0001265	.0003033	.0006959
%RSD	2.411268	.1467355	.3631986	.0813135	.0548331	1.043787
#1	.0065497	3.014920	21.58545	.1555101	.5527855	.0658838
#2	.0068528	3.006942	21.56995	.1557601	.5531785	.0672054
#3	.0066080	3.007646	21.71306	.1556013	.5533821	.0669228

Elem	Sr4077
Units	ppm
Avg	.1399879
Stddev	.0006062
%RSD	.4330153
#1	.1401284
#2	.1405114
#3	.1393238

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3062.048	70489.21	10055.39	3341.958	3545.516
Stddev	4.910	106.06	40.74	14.480	8.437
%RSD	.1603353	.1504607	.4051952	.4332868	.2379628
#1	3056.429	70459.77	10078.10	3344.679	3536.936
#2	3065.505	70400.99	10079.71	3354.885	3553.803
#3	3064.210	70606.88	10008.35	3326.310	3545.809

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-08 Acquired: 1/12/2025 14:52:47 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNH9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0563155	-.003991	1.016409	.0239898	.0512451	50.16925
Stddev	.0026684	.001794	.000980	.0014330	.0016605	.40403
%RSD	4.738356	44.94342	.0963778	5.973253	3.240339	.8053294
#1	.0552707	-.004779	1.017223	.0233104	.0518250	49.97938
#2	.0543275	-.001938	1.015322	.0230229	.0493724	50.63324
#3	.0593482	-.005256	1.016683	.0256361	.0525379	49.89514

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6197961	.0035219	.0100179	355.5802	.1454839	.0629787
Stddev	.0048426	.0001269	.0001218	2.0979	.0006853	.0001507
%RSD	.7813240	3.603715	1.215968	.5899884	.4710245	.2392248
#1	.6163361	.0036667	.0099377	353.7352	.1458229	.0628966
#2	.6253303	.0034300	.0101581	355.1432	.1459337	.0631526
#3	.6177218	.0034691	.0099580	357.8621	.1446952	.0628869

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5740883	140.7619	6.182437	77.32365	.1772590	-.009698
Stddev	.0007894	1.0779	.038553	.50734	.0009706	.000374
%RSD	.1375070	.7657639	.6235862	.6561259	.5475620	3.860818
#1	.5749320	140.2956	6.165590	77.05148	.1770838	-.009833
#2	.5733676	141.9945	6.226546	77.90900	.1783053	-.009275
#3	.5739653	139.9957	6.155176	77.01048	.1763880	-.009987

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9952162	.1211578	1.533766	7.812587	9.149109	.6385657
Stddev	.0982385	.0009599	.009991	.097517	.006864	.0061338
%RSD	9.871072	.7922328	.6513736	1.248207	.0750236	.9605672
#1	.9190028	.1207730	1.540086	7.756988	9.156851	.6360545
#2	.9605600	.1204501	1.538965	7.925187	9.143767	.6455566
#3	1.106086	.1222504	1.522248	7.755586	9.146709	.6340859

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-08 Acquired: 1/12/2025 14:52:47 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNH9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0060422	3.551889	F 19.93153	.1075085	.9502148	.0927117
Stddev	.0004127	.006186	.12455	.0012183	.0072815	.0008443
%RSD	6.830470	.1741474	.6248852	1.133201	.7662957	.9106824
#1	.0064283	3.546772	20.01556	.1076323	.9523507	.0919598
#2	.0060910	3.558763	19.78844	.1086602	.9421043	.0936251
#3	.0056072	3.550132	19.99058	.1062330	.9561895	.0925502

Elem	Sr4077
Units	ppm
Avg	.3087030
Stddev	.0030759
%RSD	.9964057
#1	.3072648
#2	.3122346
#3	.3066097

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2727.953	64752.39	9614.222	3064.979	3146.208
Stddev	7.620	156.86	76.530	16.281	5.149
%RSD	.2793180	.2422520	.7960106	.5311797	.1636721
#1	2719.260	64835.88	9595.734	3064.940	3141.189
#2	2733.477	64571.44	9698.303	3048.717	3145.956
#3	2731.122	64849.85	9548.631	3081.278	3151.478

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-09 Acquired: 1/12/2025 14:56:51 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNJ0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0562328	-.010558	.4099859	.0332371	.0145065	63.98454
Stddev	.0008165	.003282	.0027021	.0014797	.0019860	.06464
%RSD	1.452097	31.08712	.6590805	4.451805	13.69068	.1010282
#1	.0552899	-.010893	.4127708	.0349453	.0155138	63.91597
#2	.0566973	-.013659	.4098119	.0324137	.0122187	64.04436
#3	.0567111	-.007121	.4073749	.0323523	.0157872	63.99329

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4132420	.0049370	.0128718	589.9147	.1592426	.0978653
Stddev	.0007608	.0001749	.0000910	3.5645	.0007373	.0004569
%RSD	.1841151	3.543378	.7069668	.6042396	.4630145	.4668192
#1	.4132225	.0051309	.0129729	586.8774	.1591822	.0980823
#2	.4140124	.0047910	.0128461	593.8389	.1600082	.0981732
#3	.4124911	.0048893	.0127964	589.0278	.1585373	.0973404

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2035723	222.5158	8.153967	68.05057	.2435605	-.020817
Stddev	.0024476	.2670	.009113	.06186	.0020581	.000248
%RSD	1.202316	.1199774	.1117603	.0909041	.8450094	1.191775
#1	.2053738	222.2180	8.143543	67.98023	.2457474	-.020885
#2	.2007857	222.7337	8.160425	68.07500	.2432725	-.021023
#3	.2045574	222.5957	8.157933	68.09650	.2416616	-.020541

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9917358	.1407659	.8263005	12.87642	6.603135	.9865998
Stddev	.0694539	.0015960	.0038754	.01783	.029290	.0020694
%RSD	7.003269	1.133817	.4690014	.1384482	.4435813	.2097538
#1	.9385075	.1422183	.8292735	12.88803	6.636558	.9842688
#2	.9663988	.1390573	.8277103	12.88533	6.581939	.9882209
#3	1.070301	.1410220	.8219175	12.85589	6.590909	.9873096

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-09 Acquired: 1/12/2025 14:56:51 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNJ0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014362	1.264523	F 18.89280	.0403018	1.318021	.1595016
Stddev	.0003829	.005454	.09055	.0003695	.006649	.0003426
%RSD	26.66408	.4313247	.4792733	.9167207	.5044353	.2148033
#1	.0011834	1.269812	18.81682	.0401276	1.315244	.1591701
#2	.0012484	1.264840	18.86859	.0407262	1.313211	.1594805
#3	.0018768	1.258917	18.99299	.0400517	1.325608	.1598543

Elem	Sr4077
Units	ppm
Avg	.3792159
Stddev	.0004050
%RSD	.1067917
#1	.3796600
#2	.3791205
#3	.3788671

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2964.779	68867.98	10166.94	3248.918	3097.963
Stddev	8.735	92.24	39.65	2.959	15.983
%RSD	.2946230	.1339333	.3900288	.0910709	.5159296
#1	2963.547	68965.75	10193.91	3249.676	3082.819
#2	2956.726	68782.52	10185.51	3245.654	3096.398
#3	2974.065	68855.65	10121.41	3251.425	3114.671

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-10 Acquired: 1/12/2025 15:00:56 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNJ0D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0541464**	**-.009695**	**.4097203**	**.0322841**	**.0153251**	**63.04984**
Stddev	.0002981	.002705	.0022101	.0027721	.0016889	.11548
%RSD	.5506222	27.89643	.5394200	8.586675	11.02045	.1831504
#1	.0544906	-.007027	.4089250	.0354342	.0148737	63.01830
#2	.0539754	-.012435	.4122180	.0312015	.0139078	63.17781
#3	.0539730	-.009622	.4080179	.0302167	.0171939	62.95341

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4101670**	**.0050771**	**.0131044**	**581.9273**	**.1578726**	**.0979667**
Stddev	.0029796	.0001855	.0001265	3.1176	.0006111	.0001177
%RSD	.7264297	3.654233	.9653927	.5357328	.3870870	.1201394
#1	.4067356	.0050574	.0131965	582.0665	.1573809	.0980118
#2	.4120988	.0049021	.0129602	584.9730	.1576800	.0980553
#3	.4116668	.0052716	.0131566	578.7425	.1585567	.0978332

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2047901**	**218.8112**	**8.073635**	**66.95139**	**.2437121**	**-.021392**
Stddev	.0022202	.4991	.033404	.20394	.0006091	.000100
%RSD	1.084149	.2281010	.4137417	.3046066	.2499258	.4674970
#1	.2023174	218.4042	8.035939	66.72718	.2439938	-.021406
#2	.2054405	219.3681	8.085407	67.12585	.2430131	-.021286
#3	.2066126	218.6613	8.099560	67.00115	.2441294	-.021485

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.071011**	**.1434101**	**.8241859**	**12.65992**	**6.762961**	**.9696986**
Stddev	.044884	.0017289	.0036248	.08144	.006078	.0026920
%RSD	4.190834	1.205540	.4398048	.6432531	.0898735	.2776077
#1	1.086747	.1450144	.8264109	12.57416	6.767082	.9668089
#2	1.020378	.1436369	.8261436	12.66939	6.755980	.9721353
#3	1.105909	.1415790	.8200032	12.73620	6.765820	.9701515

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-10 Acquired: 1/12/2025 15:00:56 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNJ0D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015428	1.282651	F 19.10305	.0409426	1.324452	.1581655
Stddev	.0003897	.002328	.08963	.0006237	.002245	.0006049
%RSD	25.25754	.1815373	.4691718	1.523391	.1695009	.3824640
#1	.0014198	1.280469	19.07647	.0404850	1.323378	.1579299
#2	.0019792	1.282382	19.02973	.0416530	1.322945	.1588528
#3	.0012296	1.285102	19.20297	.0406898	1.327032	.1577138

Elem	Sr4077
Units	ppm
Avg	.3707748
Stddev	.0007429
%RSD	.2003544
#1	.3707689
#2	.3715206
#3	.3700349

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2931.668	69002.11	10014.98	3223.342	3059.318
Stddev	8.506	96.12	30.10	14.010	8.036
%RSD	.2901465	.1393007	.3005604	.4346390	.2626719
#1	2922.216	69112.83	10012.62	3213.700	3050.180
#2	2934.085	68939.99	10046.19	3216.913	3062.492
#3	2938.705	68953.51	9986.13	3239.412	3065.283

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-09LX5 Acquired: 1/12/2025 15:05:00 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNJ0L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0107103	-.001842	.0810139	.0098546	.0010447	12.71723	.0782436
Stddev	.0010332	.001325	.0007348	.0003916	.0012216	.03391	.0000399
%RSD	9.646853	71.93576	.9070410	3.973518	116.9382	.2666404	.0509596
#1	.0117689	-.001496	.0801992	.0096626	.0023959	12.69082	.0782634
#2	.0097046	-.003306	.0812157	.0095961	.0000183	12.70540	.0782696
#3	.0106573	-.000724	.0816266	.0103051	.0007199	12.75547	.0781977

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011561	.0021064	121.9894	.0356649	.0183663	.0451037	46.86529
Stddev	.0001094	.0000378	.3698	.0002511	.0005664	.0007349	.19672
%RSD	9.464852	1.794064	.3031728	.7040639	3.083885	1.629269	.4197593
#1	.0012477	.0021269	121.5840	.0358984	.0177473	.0458395	46.66622
#2	.0011857	.0020628	122.0759	.0356969	.0184928	.0451016	46.87009
#3	.0010349	.0021294	122.3084	.0353993	.0188587	.0443698	47.05957

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.689710	14.07595	.0473095	-.004537	.2298586	.0299189	.1762170
Stddev	.007476	.07859	.0002040	.000343	.2832744	.0005715	.0008587
%RSD	.4424712	.5583026	.4312418	7.555342	123.2386	1.910321	.4873071
#1	1.681632	13.98790	.0470781	-.004168	-.035335	.0305777	.1771008
#2	1.691112	14.10098	.0474632	-.004845	.196628	.0295556	.1753858
#3	1.696387	14.13897	.0473874	-.004600	.528283	.0296235	.1761643

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.452587	1.235809	.2030579	.0003312	.2323070	4.120428	.0043301
Stddev	.036922	.002380	.0020227	.0004169	.0039353	.012557	.0001745
%RSD	1.505415	.1925914	.9960964	125.8654	1.694029	.3047581	4.028707
#1	2.421483	1.233423	.2012161	.0000408	.2329705	4.105930	.0042678
#2	2.493390	1.238183	.2027349	.0008089	.2280822	4.127899	.0041954
#3	2.442889	1.235823	.2052226	.0001439	.2358685	4.127455	.0045272

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-09LX5 Acquired: 1/12/2025 15:05:00 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNJ0L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2948347	.0285363	.0780869
Stddev	.0011950	.0002976	.0005545
%RSD	.4052983	1.042991	.7100600
#1	.2938827	.0282452	.0777148
#2	.2961757	.0285239	.0778218
#3	.2944457	.0288400	.0787242

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2647.363	64275.56	8615.965	3003.858	3419.449
Stddev	1.975	94.37	30.968	9.289	5.156
%RSD	.0746121	.1468266	.3594209	.3092388	.1507813
#1	2648.568	64199.66	8582.833	2993.566	3416.495
#2	2645.083	64245.78	8620.879	3006.389	3416.449
#3	2648.438	64381.22	8644.181	3011.619	3425.402

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-11 Acquired: 1/12/2025 15:09:02 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNJ0S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1074384**	**.0824037**	**.4432440**	**.1636308**	**.1463596**	**65.88909**
Stddev	.0038571	.0010606	.0016273	.0007440	.0030271	.39742
%RSD	3.590097	1.287131	.3671373	.4546633	2.068260	.6031626
#1	.1115163	.0813694	.4424661	.1638715	.1459669	66.22740
#2	.1069506	.0823529	.4421516	.1627962	.1495639	65.45142
#3	.1038484	.0834889	.4451142	.1642245	.1435480	65.98845

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.323137**	**.0822174**	**.1037800**	**580.7477**	**.4741699**	**1.011302**
Stddev	.015315	.0004531	.0003754	3.0866	.0012245	.000162
%RSD	.4608705	.5511511	.3617715	.5314809	.2582307	.0159736
#1	3.339211	.0818521	.1033644	581.5288	.4755835	1.011391
#2	3.308714	.0827245	.1040947	577.3457	.4734419	1.011115
#3	3.321487	.0820755	.1038809	583.3687	.4734842	1.011399

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5621197**	**220.7271**	**8.696659**	**66.97142**	**1.151206**	**.0389094**
Stddev	.0011284	1.3393	.041279	.38595	.000714	.0002592
%RSD	.2007352	.6067789	.4746567	.5762957	.0620360	.6662691
#1	.5617200	221.9755	8.740405	67.33814	1.151088	.0390221
#2	.5633935	219.3124	8.658394	66.56875	1.150559	.0386129
#3	.5612455	220.8936	8.691179	67.00738	1.151973	.0390932

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9786867**	**.8946458**	**1.658053**	**12.70155**	**6.681482**	**.9795618**
Stddev	.1706436	.0042784	.003097	.11103	.013203	.0065668
%RSD	17.43597	.4782185	.1867831	.8741745	.1976106	.6703782
#1	1.161595	.8904506	1.657043	12.78080	6.690470	.9862024
#2	.950696	.8944842	1.655588	12.57465	6.666323	.9730714
#3	.823769	.8990027	1.661529	12.74922	6.687654	.9794116

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-11 Acquired: 1/12/2025 15:09:02 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNJ0S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010774	1.277560	F 18.36330	.0414329	1.282668	.1567541
Stddev	.0003522	.011198	.07397	.0007750	.001331	.0016197
%RSD	32.69134	.8765405	.4028378	1.870505	.1037836	1.033276
#1	.0013314	1.270606	18.30652	.0416756	1.283784	.1582754
#2	.0012255	1.271594	18.44695	.0420576	1.281195	.1550513
#3	.0006753	1.290478	18.33643	.0405656	1.283025	.1569356

Elem	Sr4077
Units	ppm
Avg	.3747869
Stddev	.0024436
%RSD	.6519940
#1	.3769001
#2	.3721111
#3	.3753495

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2912.194	68452.82	10157.78	3239.946	3046.380
Stddev	9.863	268.45	26.99	9.482	6.012
%RSD	.3386788	.3921685	.2656847	.2926526	.1973341
#1	2900.963	68159.31	10176.96	3231.780	3039.639
#2	2916.176	68685.91	10126.92	3250.345	3051.184
#3	2919.444	68513.24	10169.45	3237.712	3048.318

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-12 Acquired: 1/12/2025 15:13:03 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNJ1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0465866**	**-.003383**	**.6523129**	**.0232476**	**.0153242**	**50.56242**
Stddev	.0016858	.002074	.0018005	.0030468	.0020101	.03806
%RSD	3.618597	61.32071	.2760185	13.10573	13.11736	.0752824
#1	.0472839	-.004043	.6543911	.0238255	.0132440	50.54158
#2	.0446640	-.001059	.6512223	.0199532	.0154723	50.53933
#3	.0478118	-.005047	.6513253	.0259640	.0172561	50.60636

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4953516**	**.0039968**	**.0089073**	**358.2941**	**.1277239**	**.0668638**
Stddev	.0020553	.0000441	.0000698	2.9741	.0002260	.0002883
%RSD	.4149136	1.103559	.7840749	.8300655	.1769857	.4312482
#1	.4956379	.0039592	.0089826	361.5859	.1279441	.0671949
#2	.4931682	.0040454	.0088447	357.4959	.1274924	.0666680
#3	.4972487	.0039858	.0088946	355.8006	.1277351	.0667284

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2620644**	**151.3012**	**5.959275**	**49.48922**	**.1739334**	**-.012208**
Stddev	.0019189	.1133	.013770	.09033	.0003644	.000095
%RSD	.7322149	.0748973	.2310657	.1825290	.2094803	.7767133
#1	.2642431	151.1751	5.954011	49.40662	.1741158	-.012257
#2	.2613245	151.3946	5.948914	49.58568	.1741706	-.012269
#3	.2606257	151.3339	5.974901	49.47536	.1735139	-.012099

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9399519**	**.1104947**	**.9385643**	**8.789433**	**5.514665**	**.6738983**
Stddev	.1362112	.0012359	.0030102	.030754	.031775	.0022353
%RSD	14.49130	1.118517	.3207271	.3498982	.5761985	.3316932
#1	.8838313	.1091415	.9399113	8.813137	5.551071	.6714750
#2	1.095257	.1107789	.9406658	8.800481	5.492508	.6758794
#3	.840767	.1115638	.9351158	8.754681	5.500415	.6743405

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-12 Acquired: 1/12/2025 15:13:03 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNJ1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022419	1.423773	F 20.64027	.1046392	1.035388	.1070603
Stddev	.0001306	.008595	.05321	.0009536	.001945	.0005087
%RSD	5.823249	.6037126	.2578082	.9112959	.1878789	.4751106
#1	.0022734	1.433098	20.65135	.1054887	1.036229	.1069923
#2	.0023538	1.416167	20.58240	.1036078	1.033164	.1065890
#3	.0020985	1.422053	20.68708	.1048212	1.036772	.1075995

Elem	Sr4077
Units	ppm
Avg	.2563479
Stddev	.0001144
%RSD	.0446125
#1	.2562491
#2	.2564732
#3	.2563214

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2872.676	67577.01	9787.328	3190.516	3209.819
Stddev	7.226	216.50	33.625	10.435	9.846
%RSD	.2515465	.3203714	.3435593	.3270765	.3067424
#1	2864.915	67750.87	9800.420	3182.039	3198.630
#2	2873.902	67334.51	9749.126	3187.338	3213.670
#3	2879.211	67645.65	9812.438	3202.171	3217.158

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-13 Acquired: 1/12/2025 15:17:10 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNJ2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0527499	-.002339	1.062296	.0231913	.0325435	50.06218
Stddev	.0019004	.001934	.002953	.0030747	.0014329	.24342
%RSD	3.602682	82.67138	.2779988	13.25814	4.403044	.4862323
#1	.0528671	-.000754	1.064768	.0257097	.0315029	50.29243
#2	.0545891	-.004493	1.059026	.0197648	.0341778	49.80745
#3	.0507937	-.001769	1.063096	.0240993	.0319498	50.08667

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5968276	.0038562	.0098146	328.0562	.1467998	.0687695
Stddev	.0025492	.0000487	.0001408	.6782	.0004230	.0002998
%RSD	.4271238	1.262388	1.435034	.2067291	.2881156	.4359519
#1	.5975246	.0039105	.0099768	327.9091	.1464998	.0689413
#2	.5940024	.0038418	.0097435	327.4637	.1466160	.0689439
#3	.5989558	.0038164	.0097235	328.7959	.1472836	.0684233

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3337580	144.5301	5.765314	52.91933	.1999160	-.010402
Stddev	.0027642	.7452	.017393	.34100	.0007124	.000377
%RSD	.8281938	.5155945	.3016798	.6443685	.3563287	3.621608
#1	.3335687	145.0326	5.774872	53.16286	.1991408	-.010206
#2	.3366119	143.6739	5.745238	52.52961	.2005418	-.010836
#3	.3310934	144.8838	5.775832	53.06553	.2000653	-.010163

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8554691	.1207308	1.294759	9.049030	4.925813	.6493830
Stddev	.1208940	.0013300	.001426	.005433	.018342	.0034533
%RSD	14.13190	1.101588	.1101500	.0600434	.3723606	.5317773
#1	.9950107	.1194565	1.293140	9.055272	4.933056	.6514680
#2	.7890826	.1206256	1.295307	9.045365	4.939426	.6453969
#3	.7823139	.1221102	1.295829	9.046452	4.904955	.6512842

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-13 Acquired: 1/12/2025 15:17:10 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNJ2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040072	1.257485	F 20.80384	.1001090	.9249731	.1216891
Stddev	.0003003	.006142	.09368	.0008537	.0034309	.0012516
%RSD	7.493523	.4884006	.4502805	.8527845	.3709168	1.028521
#1	.0037386	1.264482	20.71609	.1001426	.9216285	.1225617
#2	.0039516	1.254985	20.90249	.0992390	.9284841	.1222504
#3	.0043314	1.252987	20.79295	.1009455	.9248067	.1202551

Elem	Sr4077
Units	ppm
Avg	.2309328
Stddev	.0012232
%RSD	.5296986
#1	.2318860
#2	.2295535
#3	.2313589

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2863.080	65627.14	9678.827	3122.565	3265.979
Stddev	4.734	82.20	65.208	7.507	5.123
%RSD	.1653340	.1252583	.6737191	.2404137	.1568642
#1	2857.709	65614.63	9736.855	3130.351	3260.946
#2	2864.888	65714.88	9608.260	3121.970	3265.804
#3	2866.643	65551.91	9691.366	3115.372	3271.188

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-14 Acquired: 1/12/2025 15:21:15 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1549279**	**-.006236**	**.9166202**	**.0257216**	**-.001820**	**50.85926**
Stddev	.0013932	.001361	.0018596	.0027800	.001284	.14333
%RSD	.8992621	21.82415	.2028749	10.80795	70.51965	.2818220
#1	.1555509	-.007709	.9156293	.0254422	-.002278	50.99871
#2	.1533319	-.005025	.9154659	.0286307	-.000371	50.86674
#3	.1559009	-.005973	.9187654	.0230919	-.002813	50.71234

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6521180**	**.0044007**	**.0062794**	F **950.4281**	**.0898617**	**.0781541**
Stddev	.0016982	.0000056	.0000686	6.5687	.0005156	.0006943
%RSD	.2604050	.1274722	1.091831	.6911297	.5737098	.8883654
#1	.6523774	.0044053	.0063291	953.6612	.0893861	.0788826
#2	.6503050	.0044025	.0062012	942.8695	.0897895	.0775000
#3	.6536714	.0043945	.0063079	954.7536	.0904096	.0780795

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2069581**	**170.9577**	**6.006243**	**114.9693**	**.1724567**	**-.015025**
Stddev	.0024396	.2793	.015508	.1355	.0015435	.000110
%RSD	1.178801	.1633678	.2581964	.1178322	.8949893	.7343386
#1	.2052067	171.2727	6.010311	115.0475	.1707584	-.015087
#2	.2097446	170.8602	5.989107	114.8129	.1728378	-.015091
#3	.2059230	170.7403	6.019312	115.0476	.1737739	-.014898

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.108813**	**.0997463**	**.9517076**	**11.90706**	**5.221444**	**.7843680**
Stddev	.091351	.0024114	.0023854	.05816	.009560	.0006132
%RSD	8.238604	2.417586	.2506440	.4884389	.1831008	.0781819
#1	1.214131	.1023930	.9539623	11.93943	5.214777	.7846087
#2	1.051055	.0976737	.9492100	11.83992	5.217159	.7836710
#3	1.061252	.0991723	.9519505	11.94184	5.232398	.7848244

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-14 Acquired: 1/12/2025 15:21:15 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047190	3.158533	F 22.68836	.0306761	.2733383	.1274993
Stddev	.0004238	.012102	.07491	.0004076	.0017140	.0005827
%RSD	8.981355	.3831451	.3301797	1.328712	.6270468	.4569941
#1	.0048390	3.153301	22.64213	.0302781	.2752572	.1281658
#2	.0042481	3.172371	22.64817	.0310927	.2727984	.1272457
#3	.0050698	3.149929	22.77479	.0306576	.2719592	.1270864

Elem	Sr4077
Units	ppm
Avg	.9827621
Stddev	.0036895
%RSD	.3754220
#1	.9865377
#2	.9825834
#3	.9791652

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2669.525	62434.65	9394.370	2976.776	2898.883
Stddev	5.895	148.82	18.982	13.863	2.457
%RSD	.2208428	.2383632	.2020536	.4657075	.0847565
#1	2665.916	62379.64	9402.855	2962.725	2898.173
#2	2676.328	62603.15	9407.628	2990.444	2901.617
#3	2666.331	62321.17	9372.626	2977.161	2896.859

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-15 Acquired: 1/12/2025 15:25:19 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1160225**	**-.004106**	**1.148196**	**.0297673**	**-.003773**	**62.15545**
Stddev	.0017814	.000377	.002891	.0009963	.000941	.30079
%RSD	1.535355	9.170972	.2517538	3.346991	24.93127	.4839388
#1	.1176758	-.003699	1.150096	.0308263	-.002690	62.24007
#2	.1141361	-.004177	1.149622	.0296272	-.004386	62.40486
#3	.1162557	-.004442	1.144869	.0288485	-.004244	61.82140

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9121255**	**.0049698**	**.0080615**	**22.51490**	**.1205153**	**.0995931**
Stddev	.0045696	.0000598	.0000203	.10737	.0003523	.0002921
%RSD	.5009833	1.203469	.2512582	.4768846	.2923456	.2932567
#1	.9097370	.0049130	.0080484	22.52031	.1202629	.0998314
#2	.9173944	.0050322	.0080513	22.61946	.1209178	.0992673
#3	.9092451	.0049642	.0080848	22.40493	.1203651	.0996806

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3372817**	**157.2912**	**8.489768**	**17.49968**	**.1744100**	**-.013175**
Stddev	.0026859	.4674	.024350	.08753	.0004903	.000140
%RSD	.7963414	.2971658	.2868158	.5002087	.2811190	1.064909
#1	.3356270	157.3569	8.477162	17.52442	.1749720	-.013124
#2	.3358373	157.7222	8.517836	17.57218	.1741887	-.013067
#3	.3403807	156.7944	8.474305	17.40244	.1740694	-.013333

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4958240**	**.1602584**	**.9179607**	**4.798209**	**9.052303**	**.6508179**
Stddev	.0921772	.0013006	.0016400	.047575	.012699	.0034181
%RSD	18.59071	.8115910	.1786543	.9915092	.1402825	.5251959
#1	.3918409	.1587740	.9166099	4.767195	9.062171	.6510413
#2	.5674948	.1611985	.9197854	4.852984	9.037976	.6541187
#3	.5281363	.1608027	.9174867	4.774448	9.056761	.6472936

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-15 Acquired: 1/12/2025 15:25:19 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0044188	1.154746	F 18.43492	.0496312	.8966112	.0672580
Stddev	.0001194	.009655	.07152	.0009036	.0013908	.0008849
%RSD	2.702854	.8361492	.3879518	1.820539	.1551206	1.315624
#1	.0042811	1.165879	18.42996	.0495733	.8966847	.0662978
#2	.0044821	1.149689	18.36600	.0505623	.8951851	.0680406
#3	.0044933	1.148669	18.50878	.0487580	.8979639	.0674357

Elem	Sr4077
Units	ppm
Avg	.1123288
Stddev	.0007840
%RSD	.6979577
#1	.1124894
#2	.1130201
#3	.1114770

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3385.074	78924.72	11006.55	3744.095	3512.091
Stddev	2.450	231.05	32.98	10.418	2.077
%RSD	.0723886	.2927457	.2996090	.2782629	.0591477
#1	3385.562	78750.92	10977.12	3732.874	3510.216
#2	3387.243	78836.33	11042.19	3745.950	3514.324
#3	3382.416	79186.92	11000.35	3753.461	3511.733

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-01 Acquired: 1/12/2025 15:29:15 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMR4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1185898**	**-.002383**	**12.14006**	**.0199657**	**.0008428**	**47.95079**
Stddev	.0015873	.000663	.01576	.0033169	.0013927	.33274
%RSD	1.338508	27.82506	.1297901	16.61278	165.2389	.6939151
#1	.1168145	-.001698	12.12679	.0161482	.0024450	47.65423
#2	.1198723	-.003022	12.15747	.0221419	.0001609	48.31062
#3	.1190825	-.002429	12.13591	.0216069	-.000078	47.88753

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.084827**	**.0050975**	**.0074488**	**44.67939**	**.1750620**	**.0644783**
Stddev	.010401	.0000696	.0000669	.29253	.0006577	.0003102
%RSD	.9587879	1.366021	.8977164	.6547370	.3756927	.4811641
#1	1.076022	.0050258	.0074831	44.44152	.1743111	.0641206
#2	1.096303	.0051648	.0074915	45.00603	.1753390	.0646392
#3	1.082157	.0051019	.0073717	44.59064	.1755359	.0646750

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3591218**	**96.39623**	**7.077317**	**16.29021**	**.1508059**	**-.006248**
Stddev	.0036727	.66185	.050805	.06192	.0007251	.000547
%RSD	1.022695	.6865904	.7178636	.3800843	.4807899	8.754891
#1	.3626102	95.85290	7.046527	16.22038	.1501806	-.006111
#2	.3594663	97.13333	7.135958	16.33844	.1516007	-.005782
#3	.3552890	96.20246	7.049467	16.31179	.1506366	-.006850

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4473496**	**.1805883**	**1.167908**	**5.945324**	**8.956596**	**.4136246**
Stddev	.1551345	.0004844	.000827	.039885	.020655	.0043602
%RSD	34.67858	.2682409	.0708296	.6708643	.2306167	1.054138
#1	.6264818	.1803702	1.168771	5.899292	8.936815	.4093265
#2	.3584633	.1811434	1.167830	5.969612	8.978027	.4180443
#3	.3571037	.1802513	1.167122	5.967067	8.954947	.4135028

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-01 Acquired: 1/12/2025 15:29:15 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMR4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0078119	2.836817	F 17.12906	.0603482	.7687959	.0829215
Stddev	.0000873	.010015	.08522	.0009750	.0014635	.0004863
%RSD	1.117757	.3530276	.4974950	1.615625	.1903564	.5864441
#1	.0078010	2.825707	17.19778	.0610217	.7704206	.0834420
#2	.0079041	2.845150	17.15571	.0607928	.7683861	.0828437
#3	.0077304	2.839595	17.03371	.0592302	.7675811	.0824788

Elem	Sr4077
Units	ppm
Avg	.2151622
Stddev	.0016693
%RSD	.7758157
#1	.2136190
#2	.2169340
#3	.2149335

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3001.852	71638.63	9750.677	3320.405	3584.775
Stddev	3.642	69.14	69.603	11.137	6.593
%RSD	.1213418	.0965085	.7138316	.3354092	.1839051
#1	3000.070	71710.91	9680.484	3309.354	3585.427
#2	2999.444	71631.83	9819.675	3331.626	3577.881
#3	3006.043	71573.14	9751.871	3320.234	3591.018

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV009 Acquired: 1/12/2025 15:55:43 Type: Unk
Method: EPA SFAM01.0(v33) 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	**4.632811**	**4.593922**	**23.38551**	**4.697201**	**4.594311**	**366.2837**
Stddev	.018701	.053572	.07944	.006097	.012188	2.8437
%RSD	.4036685	1.166144	.3396998	.1297992	.2652747	.7763605
#1	4.636630	4.532211	23.32437	4.703903	4.590210	367.0941
#2	4.612495	4.621071	23.35684	4.691984	4.584703	363.1228
#3	4.649308	4.628485	23.47530	4.695716	4.608020	368.6343

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.455639**	**.5153414**	**2.484786**	**370.6671**	**14.82920**	**2.364154**
Stddev	.084928	.0017161	.010714	3.1328	.03685	.005088
%RSD	.8981731	.3330031	.4311813	.8451752	.2485135	.2151943
#1	9.524147	.5146308	2.475143	368.0147	14.85866	2.360125
#2	9.360617	.5172986	2.482894	369.8630	14.78788	2.362467
#3	9.482153	.5140947	2.496319	374.1235	14.84106	2.369871

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.25236**	**372.2142**	**14.15027**	**234.8219**	**2.360880**	**1.181422**
Stddev	.00755	1.4752	.05938	1.1604	.005987	.002186
%RSD	.0529944	.3963176	.4196587	.4941475	.2535987	.1850216
#1	14.24406	373.1417	14.19143	235.3221	2.357045	1.183865
#2	14.25883	370.5132	14.08219	233.4953	2.357817	1.179653
#3	14.25419	372.9878	14.17717	235.6483	2.367779	1.180747

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**377.1642**	**2.341762**	**14.88440**	**137.4997**	**4.743915**	F **5.711410**
Stddev	.5692	.005482	.07947	.6230	.018014	.009884
%RSD	.1509223	.2341041	.5338926	.4530671	.3797352	.1730601
#1	377.4750	2.344242	14.93295	137.8089	4.725870	5.708132
#2	377.5105	2.345565	14.92756	136.7827	4.743977	5.722517
#3	376.5073	2.335478	14.79269	137.9076	4.761899	5.703582

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV009 Acquired: 1/12/2025 15:55:43 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV009 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 4.453440	4.724834	4.731224	4.663421	4.692048	F 4.333843
Stddev	.010597	.028824	.019972	.019786	.006503	.019309
%RSD	.2379438	.6100503	.4221387	.4242902	.1385949	.4455331
#1	4.454233	4.691575	4.732758	4.643509	4.687814	4.342961
#2	4.442470	4.742559	4.750385	4.663673	4.699536	4.311664
#3	4.463619	4.740368	4.710529	4.683079	4.688796	4.346904

Elem	Sr4077
Units	ppm
Avg	4.653388
Stddev	.042634
%RSD	.9161888
#1	4.626840
#2	4.630758
#3	4.702565

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2090.154	52037.15	7837.051	2472.833	2801.998
Stddev	4.280	174.11	14.352	7.851	3.752
%RSD	.2047552	.3345922	.1831295	.3174936	.1338928
#1	2086.036	51898.02	7837.582	2464.010	2806.171
#2	2094.579	52232.40	7822.441	2475.443	2800.916
#3	2089.847	51981.02	7851.130	2479.047	2798.906

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB009 Acquired: 1/12/2025 16:00:02 Type: Unk
Method: EPA SFAM01.0(v33) 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	.0013468	.0003017	.0010308	.0012366	-.000963	.0052912	-.003150
Stddev	.0012821	.0008457	.0003989	.0014146	.001170	.0071791	.000150
%RSD	95.20074	280.2713	38.70300	114.3962	121.5252	135.6780	4.764862
#1	.0007281	.0011148	.0010468	-.000269	-.000347	-.002400	-.003197
#2	.0028209	-.000573	.0006241	.002538	-.002312	.011815	-.003271
#3	.0004913	.000364	.0014214	.001440	-.000229	.006459	-.002982

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000057	.0001247	.0316042	.0005417	-.000051	.0001823	.0290629
Stddev	.000041	.0000347	.0061943	.0004626	.000153	.0014008	.0067537
%RSD	72.90236	27.84123	19.59969	85.39913	302.9756	768.5141	23.23834
#1	-.000013	.0000848	.0346348	.0009229	-.000154	-.000701	.0242871
#2	-.000096	.0001414	.0356998	.0006752	-.000123	-.000549	.0367900
#3	-.000061	.0001478	.0244781	.0000270	.000126	.001797	.0261116

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008731	.0131776	-.000586	.0006442	-.010877	-.001686	.0009441
Stddev	.0001194	.0083419	.000151	.0001974	.270195	.000689	.0001904
%RSD	13.67742	63.30376	25.69336	30.63716	2483.988	40.84625	20.16625
#1	.0007389	.0103506	-.000760	.0007436	.279343	-.002413	.0008385
#2	.0009677	.0066165	-.000486	.0007722	-.056819	-.001044	.0011639
#3	.0009126	.0225656	-.000514	.0004169	-.255157	-.001600	.0008300

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8044143	-.000952	.0057196	.0007131	-.000868	.0008306	-.000337
Stddev	.0850546	.000801	.0005771	.0002617	.001029	.0067396	.000262
%RSD	10.57348	84.16806	10.09040	36.70261	118.5025	811.4423	77.61374
#1	.7464152	-.001854	.0063860	.0005518	-.001517	.0076145	-.000623
#2	.7647746	-.000324	.0053834	.0010152	-.001406	.0007410	-.000278
#3	.9020532	-.000677	.0053893	.0005726	.000318	-.005864	-.000110

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB009 Acquired: 1/12/2025 16:00:02 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB009 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000037	.0009411	.0001942
Stddev	.000827	.0003309	.0000374
%RSD	2235.170	35.16010	19.22895
#1	-.000765	.0009412	.0001706
#2	.000863	.0006101	.0001749
#3	-.000209	.0012719	.0002373

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2661.341	60898.03	8223.304	2924.170	3794.123
Stddev	12.367	141.42	38.594	6.007	25.631
%RSD	.4647075	.2322185	.4693238	.2054146	.6755427
#1	2647.525	60928.06	8193.703	2923.055	3764.590
#2	2665.123	61022.03	8209.255	2930.656	3810.553
#3	2671.377	60744.01	8266.955	2918.798	3807.228

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-20 Acquired: 1/12/2025 16:03:57 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0254815**	**-.001710**	**.3754417**	**.0117858**	**.0036569**	**21.93634**
Stddev	.0021839	.000977	.0011118	.0043072	.0004431	.05254
%RSD	8.570453	57.14283	.2961300	36.54611	12.11788	.2395011
#1	.0275183	-.000870	.3741666	.0112458	.0040312	21.99699
#2	.0231755	-.002782	.3762082	.0077740	.0031676	21.90703
#3	.0257506	-.001477	.3759504	.0163375	.0037720	21.90499

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4289097**	**.0015453**	**.0030294**	**187.7883**	**.0559762**	**.0365128**
Stddev	.0017810	.0000239	.0000759	.4704	.0002056	.0004183
%RSD	.4152445	1.544245	2.505889	.2505189	.3672106	1.145663
#1	.4304713	.0015687	.0029470	188.2905	.0562132	.0360541
#2	.4269700	.0015462	.0030446	187.3579	.0558693	.0368733
#3	.4292879	.0015210	.0030966	187.7164	.0558463	.0366110

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1187068**	**73.76412**	**3.705017**	**25.46677**	**.0556181**	**-.006368**
Stddev	.0003783	.12547	.012745	.01944	.0004601	.000137
%RSD	.3187092	.1700963	.3439967	.0763329	.8272505	2.149562
#1	.1182983	73.90181	3.719094	25.47644	.0552780	-.006211
#2	.1187767	73.65624	3.694263	25.47949	.0561417	-.006464
#3	.1190452	73.73431	3.701693	25.44440	.0554348	-.006429

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5839104**	**.0493087**	**.5980483**	**2.226363**	**3.796126**	**.3149984**
Stddev	.1137177	.0023981	.0023011	.008468	.005721	.0008357
%RSD	19.47519	4.863384	.3847619	.3803659	.1507125	.2653168
#1	.6568766	.0513403	.6001418	2.223053	3.789523	.3159578
#2	.6419719	.0499224	.5955846	2.235986	3.799253	.3144283
#3	.4528828	.0466634	.5984187	2.220050	3.799603	.3146092

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-20 Acquired: 1/12/2025 16:03:57 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041760	.6428232	F 14.91463	.0152325	.5074000	.0376652
Stddev	.0001959	.0061610	.03075	.0000595	.0009600	.0017283
%RSD	4.691983	.9584201	.2062038	.3907949	.1892059	4.588572
#1	.0041408	.6357133	14.91461	.0152353	.5081322	.0378200
#2	.0040000	.6465905	14.88389	.0152906	.5063131	.0358647
#3	.0043871	.6461657	14.94540	.0151716	.5077548	.0393109

Elem	Sr4077
Units	ppm
Avg	.2423628
Stddev	.0004745
%RSD	.1957810
#1	.2429098
#2	.2420612
#3	.2421176

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2762.864	64298.47	9142.913	3070.961	3406.038
Stddev	3.097	137.76	6.537	20.409	9.671
%RSD	.1120815	.2142510	.0714984	.6645650	.2839275
#1	2761.417	64170.02	9150.449	3053.509	3416.699
#2	2766.419	64443.96	9138.770	3093.401	3403.583
#3	2760.755	64281.42	9139.521	3065.971	3397.831

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-21 Acquired: 1/12/2025 16:07:57 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL7D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0258901**	**-.002159**	**.3763475**	**.0119495**	**.0027028**	**21.94048**
Stddev	.0010027	.001809	.0016660	.0009571	.0015399	.10684
%RSD	3.872864	83.75599	.4426811	8.009336	56.97303	.4869338
#1	.0261445	-.001356	.3763148	.0122327	.0036902	21.98890
#2	.0267412	-.004230	.3746981	.0127330	.0009285	21.81801
#3	.0247848	-.000891	.3780296	.0108828	.0034897	22.01453

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4288464**	**.0014620**	**.0029915**	**187.8920**	**.0554096**	**.0367930**
Stddev	.0020189	.0000122	.0000856	1.0207	.0004987	.0001174
%RSD	.4707871	.8348548	2.861504	.5432214	.8999920	.3190498
#1	.4307840	.0014479	.0029684	188.2733	.0556869	.0368958
#2	.4267549	.0014685	.0030862	186.7356	.0548339	.0366651
#3	.4290002	.0014696	.0029198	188.6671	.0557079	.0368181

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1155815**	**73.70980**	**3.695552**	**25.27252**	**.0559511**	**-.006340**
Stddev	.0008150	.45493	.022976	.14369	.0001289	.000129
%RSD	.7050965	.6171916	.6217239	.5685565	.2304407	2.034359
#1	.1164832	73.80855	3.707133	25.28791	.0560975	-.006254
#2	.1148975	73.21361	3.669090	25.12176	.0559013	-.006278
#3	.1153638	74.10725	3.710433	25.40790	.0558545	-.006489

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6740195**	**.0493426**	**.5997250**	**2.226224**	**3.867910**	**.3144627**
Stddev	.2083992	.0006243	.0015679	.014932	.013597	.0025782
%RSD	30.91886	1.265192	.2614378	.6707266	.3515429	.8198744
#1	.7917943	.0487587	.5986566	2.222149	3.866183	.3148348
#2	.4333987	.0492684	.5989933	2.242770	3.855259	.3117187
#3	.7968656	.0500006	.6015249	2.213753	3.882289	.3168347

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-21 Acquired: 1/12/2025 16:07:57 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL7D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038335	.6525303	F 14.69676	.0148035	.5047409	.0360993
Stddev	.0001223	.0034994	.03152	.0002866	.0015251	.0007853
%RSD	3.189586	.5362746	.2144599	1.935818	.3021491	2.175355
#1	.0038006	.6555192	14.67245	.0147347	.5063851	.0352674
#2	.0039689	.6486810	14.68546	.0151182	.5033726	.0362030
#3	.0037311	.6533908	14.73237	.0145576	.5044651	.0368277

Elem	Sr4077
Units	ppm
Avg	.2465522
Stddev	.0015940
%RSD	.6465306
#1	.2470972
#2	.2447572
#3	.2478024

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2711.736	63844.00	9181.223	3049.341	3331.117
Stddev	6.330	234.78	17.499	3.622	11.355
%RSD	.2334131	.3677465	.1905952	.1187640	.3408799
#1	2714.354	63781.12	9201.347	3046.097	3332.090
#2	2716.336	64103.82	9169.591	3053.248	3341.954
#3	2704.517	63647.05	9172.729	3048.678	3319.307

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-20LX5 Acquired: 1/12/2025 16:11:56 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL7L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022141	.0011476	.0748560	.0025107	.0013518	4.423863	.0846984
Stddev	.0008299	.0005566	.0010043	.0009335	.0014146	.012866	.0005266
%RSD	37.48280	48.50454	1.341594	37.18024	104.6458	.2908251	.6217058
#1	.0012616	.0010391	.0747355	.0035227	.0026332	4.410083	.0841704
#2	.0025995	.0006532	.0739174	.0023263	.0015883	4.435560	.0852236
#3	.0027812	.0017504	.0759150	.0016833	-.000166	4.425947	.0847013

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003654	.0005218	38.50293	.0114340	.0074238	.0254195	15.47981
Stddev	.0000684	.0000145	.07580	.0003132	.0000812	.0011518	.03029
%RSD	18.70487	2.772402	.1968715	2.739300	1.094484	4.531263	.1956464
#1	.0003559	.0005166	38.55674	.0117600	.0073538	.0256277	15.47857
#2	.0004381	.0005381	38.53580	.0111354	.0075129	.0241778	15.51070
#3	.0003024	.0005106	38.41624	.0114067	.0074047	.0264530	15.45017

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7810242	5.247055	.0109671	-.001377	-.046277	.0079224	.1235218
Stddev	.0019575	.008754	.0005102	.000087	.286337	.0018776	.0008755
%RSD	.2506324	.1668307	4.651871	6.343494	618.7432	23.70018	.7087860
#1	.7821908	5.256904	.0114463	-.001465	.274974	.0064741	.1225329
#2	.7821176	5.240164	.0110243	-.001290	-.139177	.0072492	.1241979
#3	.7787643	5.244096	.0104308	-.001377	-.274629	.0100438	.1238348

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4337535	.7428086	.0659081	.0008837	.1202370	3.119604	.0008248
Stddev	.0255484	.0026851	.0010884	.0005054	.0064725	.033657	.0005836
%RSD	5.890072	.3614840	1.651340	57.19834	5.383117	1.078895	70.75006
#1	.4257042	.7458510	.0659245	.0014401	.1184577	3.158468	.0005086
#2	.4623572	.7418052	.0669882	.0004530	.1148402	3.100047	.0014983
#3	.4131992	.7407697	.0648117	.0007578	.1274130	3.100297	.0004676

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-20LX5 Acquired: 1/12/2025 16:11:56 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL7L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1076782	.0066227	.0496173
Stddev	.0016755	.0015730	.0002519
%RSD	1.556011	23.75237	.5076784
#1	.1095244	.0079495	.0493835
#2	.1062542	.0070336	.0498841
#3	.1072559	.0048850	.0495844

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2634.186	61185.86	8408.256	2922.622	3565.381
Stddev	9.402	56.26	39.260	5.457	12.235
%RSD	.3569258	.0919570	.4669188	.1867238	.3431516
#1	2629.343	61121.00	8380.517	2928.914	3558.109
#2	2645.022	61215.13	8453.178	2919.187	3579.507
#3	2628.192	61221.46	8391.074	2919.764	3558.528

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-22 Acquired: 1/12/2025 16:16:01 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL7S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0802858**	**.0921979**	**.4017546**	**.1545938**	**.1484488**	**23.99792**
Stddev	.0014563	.0003799	.0028199	.0022422	.0013483	.19687
%RSD	1.813939	.4120492	.7019049	1.450379	.9082834	.8203805
#1	.0798386	.0922735	.4027416	.1565432	.1495902	23.77746
#2	.0791054	.0917859	.3985738	.1550947	.1487951	24.06013
#3	.0819132	.0925343	.4039484	.1521435	.1469611	24.15618

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.576914**	**.0918844**	**.0933105**	**181.0512**	**.4231859**	**.9392409**
Stddev	.022160	.0002947	.0004569	1.2794	.0013192	.0020613
%RSD	.6195203	.3207602	.4896609	.7066619	.3117197	.2194632
#1	3.552066	.0921598	.0936538	179.6331	.4218186	.9416206
#2	3.584048	.0919198	.0927919	181.4017	.4232880	.9380139
#3	3.594628	.0915735	.0934858	182.1189	.4244510	.9380880

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5251673**	**72.30362**	**4.393828**	**24.38165**	**.9616530**	**.0588311**
Stddev	.0044238	.48246	.026475	.16420	.0018774	.0007702
%RSD	.8423635	.6672712	.6025501	.6734553	.1952235	1.309226
#1	.5300685	71.78982	4.363293	24.19321	.9635273	.0579924
#2	.5239629	72.37403	4.410374	24.45765	.9597726	.0595067
#3	.5214704	72.74701	4.407816	24.49407	.9616591	.0589943

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6373493**	**.9296277**	**1.540231**	**2.069999**	**3.736340**	**.3064703**
Stddev	.1638768	.0019240	.004427	.014604	.013130	.0022736
%RSD	25.71224	.2069626	.2873936	.7055066	.3514004	.7418792
#1	.6438945	.9287738	1.535541	2.065569	3.749132	.3041607
#2	.7978555	.9282784	1.544336	2.058123	3.722897	.3065440
#3	.4702979	.9318308	1.540817	2.086305	3.736992	.3087062

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-22 Acquired: 1/12/2025 16:16:01 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL7S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038911	.6122537	F 14.80284	.0139374	.4998830	.0353827
Stddev	.0001769	.0054475	.05727	.0006111	.0005643	.0017917
%RSD	4.545139	.8897396	.3868637	4.384837	.1128914	5.063842
#1	.0040032	.6167975	14.86325	.0132646	.4992775	.0333315
#2	.0039828	.6137488	14.79592	.0140893	.5003943	.0366422
#3	.0036872	.6062148	14.74934	.0144582	.4999772	.0361743

Elem	Sr4077
Units	ppm
Avg	.2309993
Stddev	.0020954
%RSD	.9070965
#1	.2288075
#2	.2312075
#3	.2329828

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2736.362	64085.55	8913.017	3026.853	3401.783
Stddev	4.071	303.74	41.740	18.613	5.887
%RSD	.1487832	.4739543	.4683076	.6149130	.1730636
#1	2731.784	64423.24	8884.921	3042.506	3394.996
#2	2737.726	63834.68	8893.150	3006.273	3404.842
#3	2739.577	63998.72	8960.980	3031.781	3405.512

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-05 Acquired: 1/12/2025 16:19:54 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0818561**	**-.004396**	**1.807582**	**.0289668**	**-.002606**	**57.73905**
Stddev	.0012270	.000358	.002236	.0027617	.001201	.23978
%RSD	1.498955	8.151016	.1236986	9.534105	46.09578	.4152769
#1	.0817213	-.004598	1.805286	.0320202	-.003530	57.99808
#2	.0807021	-.003982	1.807708	.0282366	-.003040	57.69420
#3	.0831449	-.004608	1.809753	.0266435	-.001248	57.52486

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.551849**	**.0041613**	**.0090007**	**182.7044**	**.1558767**	**.1017816**
Stddev	.005309	.0001026	.0001362	.4865	.0001572	.0004968
%RSD	.3420850	2.466606	1.513462	.2662675	.1008765	.4880662
#1	1.557958	.0040444	.0088528	183.2164	.1558543	.1018314
#2	1.549232	.0042028	.0091210	182.6486	.1560440	.1022515
#3	1.548357	.0042366	.0090285	182.2483	.1557319	.1012618

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3561907**	**150.1944**	**10.00521**	**35.87402**	**.1583113**	**-.011380**
Stddev	.0017573	.5254	.02252	.06970	.0006710	.000333
%RSD	.4933602	.3498329	.2251124	.1942962	.4238362	2.929092
#1	.3554967	150.7172	10.03122	35.90077	.1583052	-.011218
#2	.3581890	150.1996	9.99241	35.92639	.1576434	-.011763
#3	.3548863	149.6664	9.99200	35.79491	.1589853	-.011158

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.111993**	**.1460790**	**1.250765**	**6.247486**	F **19.44138**	**.6524088**
Stddev	.057814	.0025006	.002294	.024980	.03735	.0018804
%RSD	5.199099	1.711819	.1833994	.3998370	.1921155	.2882183
#1	1.119197	.1432427	1.251747	6.271590	19.48419	.6545799
#2	1.165866	.1479658	1.252404	6.249153	19.41546	.6513043
#3	1.050915	.1470285	1.248143	6.221714	19.42449	.6513422

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-05 Acquired: 1/12/2025 16:19:54 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0078117	3.107893	F 21.59670	.0961202	.7385319	.0878593
Stddev	.0001020	.004967	.09528	.0001813	.0020738	.0009174
%RSD	1.305848	.1598128	.4412002	.1886400	.2808047	1.044112
#1	.0077356	3.113394	21.56348	.0960042	.7366920	.0882924
#2	.0079276	3.103738	21.52247	.0960273	.7381246	.0884799
#3	.0077719	3.106547	21.70415	.0963292	.7407792	.0868056

Elem	Sr4077
Units	ppm
Avg	.3209731
Stddev	.0016792
%RSD	.5231527
#1	.3226703
#2	.3209365
#3	.3193125

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3384.041	78853.17	11383.17	3753.851	3303.975
Stddev	5.546	162.20	49.88	11.310	3.750
%RSD	.1638984	.2057004	.4382012	.3012967	.1134892
#1	3377.791	78855.49	11440.45	3744.719	3299.929
#2	3388.376	78689.82	11359.78	3750.331	3307.334
#3	3385.956	79014.20	11349.28	3766.502	3304.663

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-06 Acquired: 1/12/2025 16:23:49 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF3D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0808217**	**-.005202**	**1.806230**	**.0290958**	**-.001940**	**57.95274**
Stddev	.0022543	.001377	.002475	.0029333	.001682	.17158
%RSD	2.789174	26.47321	.1370005	10.08158	86.73171	.2960662
#1	.0819906	-.006786	1.805421	.0323838	-.003783	57.93863
#2	.0822515	-.004288	1.804261	.0281559	-.000487	57.78865
#3	.0782231	-.004532	1.809007	.0267476	-.001549	58.13094

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.549583**	**.0042195**	**.0090586**	**182.9795**	**.1556782**	**.1013486**
Stddev	.005821	.0000728	.0000809	.5240	.0001968	.0003589
%RSD	.3756246	1.724518	.8934806	.2863943	.1263947	.3541234
#1	1.548207	.0042536	.0090801	182.9601	.1555523	.1016131
#2	1.544574	.0041360	.0089690	182.4655	.1555773	.1009400
#3	1.555968	.0042690	.0091266	183.5130	.1559049	.1014925

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3584895**	**150.8378**	**10.00989**	**36.01872**	**.1583336**	**-.011190**
Stddev	.0016939	.5162	.02304	.10507	.0004282	.000453
%RSD	.4725069	.3422310	.2302141	.2917171	.2704518	4.050586
#1	.3593503	150.7542	10.00439	35.94476	.1581458	-.010669
#2	.3595801	150.3685	9.99009	35.97241	.1580314	-.011402
#3	.3565381	151.3907	10.03518	36.13900	.1588237	-.011498

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.141305**	**.1461750**	**1.249911**	**6.248918**	F **19.35775**	**.6549409**
Stddev	.086608	.0020795	.003902	.030584	.03155	.0028640
%RSD	7.588500	1.422593	.3121892	.4894212	.1629970	.4372992
#1	1.204601	.1437808	1.249272	6.284117	19.32592	.6551337
#2	1.176710	.1475309	1.254093	6.233788	19.35831	.6519853
#3	1.042604	.1472132	1.246368	6.228848	19.38902	.6577037

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-06 Acquired: 1/12/2025 16:23:49 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF3D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0081049	3.109684	F 21.59626	.0960747	.7364048	.0876949
Stddev	.0000826	.015072	.02060	.0004845	.0016547	.0005450
%RSD	1.019669	.4846761	.0953838	.5043421	.2246966	.6214301
#1	.0080304	3.106808	21.59880	.0965458	.7368960	.0882827
#2	.0081938	3.096258	21.57451	.0961006	.7345601	.0875956
#3	.0080906	3.125987	21.61548	.0955778	.7377582	.0872065

Elem	Sr4077
Units	ppm
Avg	.3212656
Stddev	.0011692
%RSD	.3639500
#1	.3212063
#2	.3201271
#3	.3224634

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3373.611	78687.20	11405.00	3755.041	3294.112
Stddev	5.146	217.92	20.43	12.258	3.877
%RSD	.1525428	.2769476	.1791619	.3264304	.1176801
#1	3367.871	78516.41	11382.23	3763.195	3290.568
#2	3375.150	78932.63	11411.05	3740.945	3293.516
#3	3377.813	78612.55	11421.73	3760.984	3298.252

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-05LX5 Acquired: 1/12/2025 16:27:44 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF3L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0190944	-.000567	.3595042	.0088084	-.000730	13.48776	.3517704
Stddev	.0013319	.001253	.0011435	.0012351	.000743	.02495	.0006289
%RSD	6.975260	220.9174	.3180699	14.02181	101.6635	.1850160	.1787739
#1	.0178653	-.000498	.3582468	.0083515	-.000722	13.49687	.3518422
#2	.0189083	-.001854	.3597840	.0078668	-.001477	13.50688	.3511086
#3	.0205095	.000650	.3604819	.0102069	.000008	13.45953	.3523602

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010574	.0013599	43.50656	.0385661	.0194620	.0898590	36.66051
Stddev	.0001447	.0000085	.05461	.0002760	.0002253	.0003427	.01389
%RSD	13.68532	.6218502	.1255148	.7156567	1.157681	.3813666	.0378932
#1	.0009549	.0013548	43.52207	.0388340	.0193629	.0902161	36.64697
#2	.0009945	.0013552	43.44587	.0382827	.0193033	.0895329	36.67473
#3	.0012230	.0013697	43.55173	.0385817	.0197199	.0898279	36.65983

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.389676	8.670146	.0309647	-.002925	.3690223	.0341750	.3071520
Stddev	.002573	.021699	.0004159	.000181	.2303920	.0005122	.0016828
%RSD	.1076622	.2502728	1.343148	6.180181	62.43310	1.498762	.5478801
#1	2.386989	8.653041	.0305036	-.003106	.1643482	.0336116	.3071708
#2	2.389923	8.694554	.0310790	-.002923	.6185390	.0346126	.3088254
#3	2.392116	8.662842	.0313116	-.002745	.3241795	.0343006	.3054599

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.403096	3.771095	.1572311	.0018969	.5850747	5.369971	.0170630
Stddev	.008868	.024955	.0001260	.0002358	.0046229	.013011	.0004966
%RSD	.6320146	.6617370	.0801140	12.43179	.7901351	.2422868	2.910568
#1	1.413275	3.742770	.1571764	.0019476	.5817817	5.366492	.0165266
#2	1.397044	3.780675	.1571416	.0021032	.5830829	5.359054	.0171558
#3	1.398969	3.789841	.1573751	.0016398	.5903597	5.384368	.0175068

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-05LX5 Acquired: 1/12/2025 16:27:44 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF3L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1844503	.0185276	.0751946
Stddev	.0001680	.0007156	.0002312
%RSD	.0910882	3.862143	.3075242
#1	.1846391	.0193513	.0754451
#2	.1843175	.0180592	.0751495
#3	.1843941	.0181723	.0749893

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2795.210	65037.08	8896.532	3118.927	3579.061
Stddev	5.478	257.26	29.381	10.362	9.642
%RSD	.1959660	.3955615	.3302501	.3322321	.2693939
#1	2800.743	64942.88	8876.247	3115.071	3590.183
#2	2795.098	64840.20	8883.124	3111.047	3573.061
#3	2789.789	65328.17	8930.225	3130.665	3573.939

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-07 Acquired: 1/12/2025 16:31:44 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF3S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1313224**	**.0854331**	**1.825248**	**.1442810**	**.1154617**	**60.19630**
Stddev	.0029837	.0024500	.005165	.0015396	.0005367	.10251
%RSD	2.272036	2.867770	.2829926	1.067074	.4648153	.1702856
#1	.1284799	.0835373	1.830869	.1426863	.1150952	60.08318
#2	.1310578	.0845624	1.820711	.1457588	.1160777	60.28304
#3	.1344296	.0881995	1.824162	.1443979	.1152122	60.22267

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.133229**	**.0736120**	**.0994516**	**183.1559**	**.4478004**	**1.011345**
Stddev	.025176	.0001417	.0002253	.3475	.0010599	.002329
%RSD	.6091005	.1924892	.2265471	.1897182	.2366994	.2302823
#1	4.160324	.0736461	.0996771	182.7606	.4477464	1.013400
#2	4.110559	.0734564	.0992265	183.4131	.4488862	1.008815
#3	4.128805	.0737336	.0994513	183.2940	.4467684	1.011818

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6825824**	**151.8546**	**10.65736**	**35.84448**	**1.067468**	**.0413858**
Stddev	.0036774	.2524	.03697	.03073	.003690	.0000319
%RSD	.5387436	.1662212	.3468505	.0857435	.3456653	.0770496
#1	.6856053	151.6129	10.61491	35.87199	1.069089	.0414225
#2	.6784884	152.1165	10.68245	35.85015	1.063245	.0413648
#3	.6836535	151.8343	10.67471	35.81131	1.070069	.0413701

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.049353**	**.8356987**	**1.987609**	**6.274480**	F **19.15909**	**.6617300**
Stddev	.144202	.0007241	.003074	.080648	.02541	.0020090
%RSD	13.74201	.0866445	.1546711	1.285341	.1326080	.3036040
#1	1.083860	.8362913	1.985943	6.187054	19.18834	.6597299
#2	1.173171	.8359131	1.985727	6.345972	19.14638	.6637479
#3	.891028	.8348916	1.991157	6.290415	19.14255	.6617123

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-07 Acquired: 1/12/2025 16:31:44 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF3S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0076492**	**3.100905**	F **21.29075**	**.0944789**	**.7276700**	**.0882746**
Stddev	.0001880	.013573	.05359	.0011189	.0035719	.0002313
%RSD	2.457870	.4377133	.2517239	1.184235	.4908722	.2620059
#1	.0078236	3.116427	21.28037	.0938065	.7274520	.0883021
#2	.0076740	3.095022	21.24310	.0938598	.7242121	.0880308
#3	.0074501	3.091267	21.34877	.0957705	.7313459	.0884909

Elem	Sr4077
Units	ppm
Avg	**.3215051**
Stddev	.0004690
%RSD	.1458867
#1	.3211059
#2	.3220217
#3	.3213876

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3361.515**	**78801.49**	**11547.53**	**3756.617**	**3295.363**
Stddev	10.980	135.02	24.63	9.261	11.757
%RSD	.3266375	.1713476	.2132816	.2465152	.3567634
#1	3351.668	78826.35	11523.22	3760.496	3283.501
#2	3373.355	78655.76	11572.47	3763.307	3307.012
#3	3359.521	78922.35	11546.89	3746.047	3295.577

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-10 Acquired: 1/12/2025 16:35:45 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN08 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0865497**	**-.005118**	**1.680088**	**.0249884**	**-.001708**	**53.82716**
Stddev	.0006144	.002702	.002317	.0009800	.001236	.14939
%RSD	.7098937	52.79757	.1378987	3.921794	72.41175	.2775439
#1	.0869764	-.005003	1.680032	.0243569	-.001306	53.69891
#2	.0868273	-.007876	1.677800	.0244909	-.000722	53.99120
#3	.0858455	-.002475	1.682433	.0261174	-.003095	53.79138

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.012085**	**.0039995**	**.0079117**	**233.4356**	**.1105265**	**.0828623**
Stddev	.003874	.0000877	.0002021	.7854	.0003397	.0004460
%RSD	.3827288	2.192303	2.553840	.3364344	.3073639	.5381776
#1	1.008798	.0040713	.0079489	232.7629	.1101344	.0829381
#2	1.016356	.0039018	.0076936	234.2986	.1107332	.0823833
#3	1.011101	.0040255	.0080925	233.2452	.1107118	.0832655

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2891832**	**143.6483**	**8.215214**	**43.22194**	**.1806082**	**-.011782**
Stddev	.0017700	.5086	.030006	.15376	.0003972	.000326
%RSD	.6120520	.3540816	.3652520	.3557424	.2199117	2.770862
#1	.2889145	143.1256	8.198755	43.04664	.1801946	-.012119
#2	.2875629	144.1416	8.249848	43.33401	.1806434	-.011467
#3	.2910721	143.6778	8.197039	43.28515	.1809867	-.011761

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7345957**	**.1293319**	**1.110307**	**5.921632**	**7.656124**	**.6134975**
Stddev	.0738882	.0013280	.003350	.060588	.017635	.0027347
%RSD	10.05835	1.026800	.3017303	1.023161	.2303387	.4457570
#1	.7205168	.1284809	1.111405	5.892160	7.658116	.6103500
#2	.6687600	.1308621	1.112970	5.991317	7.637577	.6148501
#3	.8145105	.1286527	1.106546	5.881418	7.672678	.6152922

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-10 Acquired: 1/12/2025 16:35:45 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN08 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053601	2.067071	F 20.77936	.0658003	.8578534	.0815857
Stddev	.0004210	.007772	.03937	.0000926	.0015260	.0002096
%RSD	7.853389	.3760092	.1894708	.1407229	.1778918	.2568559
#1	.0052354	2.066409	20.81453	.0657127	.8561977	.0813625
#2	.0058293	2.059651	20.78672	.0657909	.8581591	.0816165
#3	.0050156	2.075153	20.73683	.0658972	.8592035	.0817781

Elem	Sr4077
Units	ppm
Avg	.2469907
Stddev	.0006099
%RSD	.2469207
#1	.2462923
#2	.2472612
#3	.2474185

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2989.538	70003.78	10180.78	3322.178	3287.647
Stddev	2.710	190.82	12.88	10.695	6.484
%RSD	.0906475	.2725854	.1265135	.3219296	.1972382
#1	2990.860	70208.05	10182.53	3324.244	3285.294
#2	2991.332	69830.11	10192.70	3310.600	3294.979
#3	2986.420	69973.20	10167.12	3331.689	3282.667

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-11 Acquired: 1/12/2025 16:39:42 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN09 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1221109	-.008049	2.066334	.0304317	-.004166	61.01977
Stddev	.0019366	.001565	.004750	.0021630	.002602	.28186
%RSD	1.585926	19.44165	.2298899	7.107807	62.45742	.4619198
#1	.1234687	-.007754	2.061680	.0308677	-.003408	60.73087
#2	.1229708	-.006653	2.066146	.0323435	-.002027	61.03440
#3	.1198933	-.009741	2.071175	.0280838	-.007062	61.29403

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.282344	.0052361	.0097426	97.04658	.1185989	.1009587
Stddev	.008159	.0001070	.0000560	.40757	.0001526	.0002359
%RSD	.6362421	2.043856	.5743755	.4199729	.1286392	.2336813
#1	1.273645	.0053511	.0097402	96.61551	.1185736	.1007313
#2	1.283560	.0052176	.0096879	97.09859	.1184607	.1009426
#3	1.289826	.0051395	.0097997	97.42565	.1187626	.1012023

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4449930	170.1465	10.35724	26.99804	.1733664	-.013488
Stddev	.0021056	.6029	.04173	.13243	.0006913	.000449
%RSD	.4731679	.3543190	.4028734	.4905189	.3987785	3.325452
#1	.4472400	169.5170	10.31166	26.87921	.1727143	-.013878
#2	.4446736	170.2039	10.36653	26.97412	.1732937	-.013588
#3	.4430654	170.7187	10.39355	27.14081	.1740913	-.012997

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.132789	.1490586	1.307090	6.569808	F 12.22546	.7153372
Stddev	.094870	.0022762	.005489	.078614	.01110	.0033428
%RSD	8.374927	1.527060	.4199159	1.196593	.0908104	.4672986
#1	1.115235	.1482332	1.313428	6.544529	12.23808	.7119124
#2	1.235210	.1516324	1.303917	6.506944	12.21721	.7155078
#3	1.047921	.1473103	1.303927	6.657952	12.22109	.7185914

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-11 Acquired: 1/12/2025 16:39:42 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN09 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0051491	2.941155	F 22.43711	.0854837	.8155560	.0756575
Stddev	.0002085	.009939	.07982	.0008815	.0021674	.0014345
%RSD	4.050013	.3379165	.3557631	1.031240	.2657623	1.896042
#1	.0049177	2.945501	22.52483	.0861343	.8155821	.0743788
#2	.0052072	2.929783	22.41778	.0844804	.8177103	.0753851
#3	.0053225	2.948180	22.36873	.0858363	.8133757	.0772087

Elem	Sr4077
Units	ppm
Avg	.2044260
Stddev	.0011342
%RSD	.5548281
#1	.2031513
#2	.2048028
#3	.2053238

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3137.826	76610.36	10517.53	3594.259	3317.405
Stddev	2.573	123.76	51.52	13.478	4.842
%RSD	.0819952	.1615405	.4898396	.3749860	.1459709
#1	3138.126	76674.77	10463.46	3579.235	3319.942
#2	3140.236	76688.63	10523.08	3605.288	3320.452
#3	3135.116	76467.68	10566.05	3598.253	3311.822

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-12 Acquired: 1/12/2025 16:43:37 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN10 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1289523**	**-.010966**	**.4854996**	**.0365047**	**-.004341**	**61.01639**
Stddev	.0015142	.001796	.0006935	.0029968	.001543	.47712
%RSD	1.174249	16.38169	.1428339	8.209250	35.54267	.7819570
#1	.1275970	-.011677	.4862831	.0332615	-.002619	60.62885
#2	.1286732	-.008923	.4849647	.0370815	-.005598	60.87105
#3	.1305866	-.012299	.4852510	.0391712	-.004807	61.54928

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.893530**	**.0058972**	**.0132570**	**41.94437**	**.1106603**	**.1286679**
Stddev	.013027	.0001240	.0001101	.27661	.0004177	.0007039
%RSD	.6879635	2.102347	.8306102	.6594765	.3774721	.5470481
#1	1.882925	.0060063	.0131869	41.73720	.1102120	.1292598
#2	1.889594	.0057624	.0132001	41.83742	.1107302	.1288543
#3	1.908071	.0059230	.0133839	42.25849	.1110386	.1278896

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2405682**	**186.8045**	**18.66836**	**17.60622**	**.1986892**	**-.012803**
Stddev	.0025910	1.2017	.14260	.11928	.0000945	.000145
%RSD	1.077041	.6433081	.7638843	.6775037	.0475680	1.135877
#1	.2412509	185.8863	18.80773	17.50816	.1986895	-.012968
#2	.2427495	186.3625	18.52273	17.57149	.1987836	-.012694
#3	.2377042	188.1646	18.67463	17.73902	.1985945	-.012747

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7846970**	**.1519928**	**1.423613**	**4.530515**	**7.696147**	**.7707022**
Stddev	.0785578	.0017033	.004420	.023282	.044367	.0063810
%RSD	10.01122	1.120630	.3104868	.5138939	.5764862	.8279416
#1	.8458688	.1529313	1.426417	4.505374	7.740096	.7660098
#2	.8121182	.1500267	1.418518	4.534838	7.696973	.7681289
#3	.6961039	.1530203	1.425905	4.551332	7.651373	.7779680

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-12 Acquired: 1/12/2025 16:43:37 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN10 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0044569	1.697761	F 22.73821	.0151005	.6732650	.0669470
Stddev	.0005060	.007117	.08433	.0004883	.0010829	.0008365
%RSD	11.35316	.4192009	.3708642	3.233343	.1608411	1.249457
#1	.0048160	1.703223	22.83501	.0151302	.6739734	.0663576
#2	.0046766	1.700348	22.68068	.0155733	.6720185	.0679044
#3	.0038782	1.689712	22.69894	.0145982	.6738032	.0665791

Elem	Sr4077
Units	ppm
Avg	.1393918
Stddev	.0012593
%RSD	.9034014
#1	.1384070
#2	.1389578
#3	.1408107

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3360.479	80253.74	11002.15	3782.757	3461.107
Stddev	3.283	75.37	78.85	2.627	3.025
%RSD	.0976953	.0939089	.7166337	.0694508	.0873948
#1	3359.600	80309.18	10925.73	3779.795	3458.952
#2	3364.112	80284.12	10997.49	3783.670	3459.804
#3	3357.725	80167.93	11083.22	3784.806	3464.565

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-13 Acquired: 1/12/2025 16:47:41 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN11 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1449589**	**-.011987**	**.3639942**	**.0368819**	**-.006562**	**47.23861**
Stddev	.0003690	.001119	.0011145	.0018786	.003098	.24022
%RSD	.2545400	9.338915	.3061965	5.093545	47.20615	.5085308
#1	.1452761	-.010794	.3627098	.0385700	-.008327	47.28643
#2	.1445540	-.013014	.3645664	.0372175	-.008374	46.97807
#3	.1450466	-.012152	.3647063	.0348581	-.002985	47.45133

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.010279**	**.0056861**	**.0114218**	**38.01007**	**.1004793**	**.1470219**
Stddev	.020786	.0001639	.0000724	.16321	.0002066	.0002416
%RSD	.5183153	2.882473	.6339209	.4293991	.2056114	.1643222
#1	4.017996	.0056448	.0113407	38.08132	.1007086	.1467681
#2	3.986738	.0058667	.0114800	37.82334	.1003077	.1472490
#3	4.026102	.0055468	.0114446	38.12555	.1004215	.1470486

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2786214**	**199.0899**	**28.94082**	**19.96164**	**.2169791**	**-.013267**
Stddev	.0012312	.8934	.27064	.02943	.0003079	.000233
%RSD	.4418857	.4487502	.9351421	.1474446	.1419132	1.754407
#1	.2772897	199.4245	29.16066	19.99490	.2168484	-.013302
#2	.2797183	198.0775	29.02325	19.93894	.2167580	-.013481
#3	.2788562	199.7678	28.63856	19.95110	.2173308	-.013019

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6524139**	**.1497189**	**.9074435**	**4.191174**	**6.662819**	**.8205806**
Stddev	.0816588	.0018934	.0021558	.058932	.006646	.0047985
%RSD	12.51641	1.264658	.2375653	1.406088	.0997507	.5847725
#1	.5621683	.1481186	.9073480	4.125160	6.670336	.8233942
#2	.6738732	.1492290	.9053371	4.209880	6.657722	.8150399
#3	.7212001	.1518092	.9096454	4.238482	6.660399	.8233075

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-13 Acquired: 1/12/2025 16:47:41 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN11 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0062787	.7018145	F 19.84800	.0086995	.6471252	.0576421
Stddev	.0001477	.0045376	.05086	.0004835	.0008220	.0003971
%RSD	2.352186	.6465584	.2562430	5.558012	.1270155	.6889382
#1	.0063187	.6980216	19.89016	.0089539	.6480568	.0579324
#2	.0064022	.7005802	19.86233	.0090028	.6465023	.0571895
#3	.0061151	.7068415	19.79152	.0081419	.6468166	.0578043

Elem	Sr4077
Units	ppm
Avg	.1158918
Stddev	.0005399
%RSD	.4658886
#1	.1157665
#2	.1154255
#3	.1164834

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3283.745	78250.75	10919.35	3736.113	3403.732
Stddev	.891	349.65	49.80	16.957	5.489
%RSD	.0271232	.4468326	.4561080	.4538689	.1612677
#1	3284.396	77863.19	10879.39	3724.359	3409.908
#2	3284.110	78542.53	10903.52	3755.552	3399.411
#3	3282.730	78346.52	10975.15	3728.429	3401.876

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-14 Acquired: 1/12/2025 16:51:48 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN12 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0946774**	**-.007604**	**.2946107**	**.0142138**	**-.003947**	**31.65345**
Stddev	.0021489	.001404	.0031174	.0034244	.001117	.07541
%RSD	2.269731	18.47071	1.058151	24.09198	28.29274	.2382472
#1	.0967063	-.008073	.2981258	.0165573	-.004994	31.73309
#2	.0949003	-.008713	.2921814	.0158001	-.004076	31.58313
#3	.0924258	-.006025	.2935249	.0102839	-.002772	31.64412

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.122325**	**.0042158**	**.0064575**	**659.2923**	**.0768318**	**.0667356**
Stddev	.004260	.0000918	.0001742	3.3121	.0003382	.0007253
%RSD	.3795500	2.178739	2.697862	.5023672	.4401907	1.086771
#1	1.124747	.0042175	.0066315	657.1383	.0764425	.0675140
#2	1.117407	.0043068	.0062831	657.6326	.0769991	.0666139
#3	1.124821	.0041231	.0064580	663.1061	.0770537	.0660788

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2239377**	**128.2129**	**13.33383**	**259.1014**	**.1188437**	**-.009511**
Stddev	.0005458	.2253	.05217	.5746	.0006771	.000229
%RSD	.2437450	.1757587	.3912927	.2217747	.5697476	2.405270
#1	.2237219	128.4709	13.37210	259.7228	.1194737	-.009492
#2	.2245584	128.0547	13.27440	258.5892	.1181277	-.009293
#3	.2235327	128.1132	13.35499	258.9922	.1189296	-.009749

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9297693**	**.0903831**	**.5492636**	**8.208703**	**4.377379**	**.5973298**
Stddev	.1725629	.0018541	.0029992	.019054	.025221	.0003475
%RSD	18.55975	2.051430	.5460347	.2321193	.5761589	.0581695
#1	.8117901	.0896747	.5458006	8.217716	4.404217	.5976405
#2	1.127822	.0889875	.5510285	8.186814	4.354169	.5969547
#3	.849695	.0924869	.5509615	8.221577	4.373750	.5973943

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-14 Acquired: 1/12/2025 16:51:48 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN12 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029469	2.723920	F 17.22844	.0036430	.2262775	.0567018
Stddev	.0004081	.016292	.04454	.0008567	.0015055	.0010142
%RSD	13.84737	.5981220	.2585017	23.51619	.6653316	1.788622
#1	.0032041	2.740232	17.25165	.0046310	.2265442	.0560464
#2	.0024764	2.707647	17.17710	.0031919	.2246566	.0561890
#3	.0031602	2.723881	17.25658	.0031062	.2276319	.0578700

Elem	Sr4077
Units	ppm
Avg	.4671232
Stddev	.0013398
%RSD	.2868117
#1	.4686223
#2	.4667045
#3	.4660428

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2792.636	66019.84	9919.467	3129.375	2883.620
Stddev	1.224	104.64	19.057	8.849	8.708
%RSD	.0438363	.1585031	.1921177	.2827685	.3019842
#1	2792.791	66021.14	9937.101	3133.594	2876.077
#2	2793.775	66123.83	9922.050	3135.326	2893.150
#3	2791.341	65914.55	9899.250	3119.206	2881.634

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-15 Acquired: 1/12/2025 16:55:53 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN13 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0585946**	**-.001851**	**1.810967**	**.0211004**	**.0006164**	**48.09952**
Stddev	.0014730	.001462	.009255	.0008301	.0022524	.12507
%RSD	2.513805	78.97459	.5110702	3.933954	365.4235	.2600167
#1	.0594416	-.001828	1.815203	.0209341	-.001983	47.97570
#2	.0594485	-.003324	1.817347	.0203661	.001986	48.09705
#3	.0568938	-.000401	1.800352	.0220011	.001846	48.22580

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.001760**	**.0029300**	**.0086634**	**61.15024**	**.1688585**	**.0447187**
Stddev	.001850	.0000186	.0001418	.17258	.0006699	.0002802
%RSD	.1847115	.6363893	1.636275	.2822218	.3967282	.6265538
#1	1.000231	.0029088	.0087132	61.00688	.1687525	.0445771
#2	1.001231	.0029373	.0087736	61.10205	.1682479	.0450414
#3	1.003817	.0029439	.0085035	61.34180	.1695751	.0445376

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4028450**	**104.1774**	**3.773728**	**22.19450**	**.1332182**	**-.007529**
Stddev	.0030231	.3995	.007968	.07374	.0012973	.000135
%RSD	.7504414	.3834803	.2111368	.3322276	.9738219	1.796291
#1	.4032066	103.8277	3.766031	22.12862	.1336124	-.007487
#2	.3996574	104.0918	3.773211	22.18072	.1342727	-.007420
#3	.4056711	104.6128	3.781941	22.27415	.1317695	-.007680

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5513818**	**.1182384**	**1.918695**	**5.437364**	F **11.02491**	**.4512236**
Stddev	.0521074	.0016347	.007831	.065449	.04201	.0021843
%RSD	9.450336	1.382573	.4081476	1.203687	.3810042	.4840797
#1	.5528915	.1168381	1.926337	5.361883	11.04222	.4487535
#2	.6027180	.1178424	1.919062	5.471875	11.05549	.4520170
#3	.4985359	.1200348	1.910687	5.478335	10.97701	.4529003

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-15 Acquired: 1/12/2025 16:55:53 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN13 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0051517	4.444014	F 19.44283	.0853374	.7786278	.0510456
Stddev	.0001197	.020156	.04308	.0014530	.0021954	.0010038
%RSD	2.323669	.4535523	.2215739	1.702608	.2819508	1.966417
#1	.0052083	4.446258	19.48140	.0852333	.7811050	.0522043
#2	.0052327	4.462953	19.39634	.0868397	.7769234	.0504911
#3	.0050142	4.422829	19.45075	.0839394	.7778548	.0504413

Elem	Sr4077
Units	ppm
Avg	.1643731
Stddev	.0005882
%RSD	.3578716
#1	.1637625
#2	.1644206
#3	.1649361

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2925.960	68969.81	9653.406	3267.492	3516.032
Stddev	5.937	248.68	5.599	2.250	9.414
%RSD	.2029111	.3605650	.0579987	.0688608	.2677348
#1	2920.446	69227.14	9646.959	3268.604	3511.184
#2	2925.188	68951.51	9657.047	3264.902	3510.032
#3	2932.245	68730.79	9656.212	3268.969	3526.882

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-16 Acquired: 1/12/2025 16:59:49 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN14 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1032594	-.002714	4.142149	.0322806	.0038424	53.50328
Stddev	.0017552	.000731	.007096	.0017434	.0016852	.64405
%RSD	1.699759	26.93263	.1713034	5.400917	43.85806	1.203757
#1	.1023207	-.002040	4.146701	.0340755	.0020588	52.83629
#2	.1021733	-.003491	4.145773	.0321726	.0054080	54.12163
#3	.1052843	-.002611	4.133973	.0305936	.0040603	53.55192

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.991183	.0043692	.0126177	122.3096	.3294107	.0718840
Stddev	.023000	.0000453	.0001252	1.3757	.0032181	.0004196
%RSD	1.155097	1.035692	.9918314	1.124759	.9769366	.5836995
#1	1.968298	.0043793	.0126803	120.9031	.3257188	.0720653
#2	2.014297	.0043197	.0124736	123.6523	.3316226	.0721824
#3	1.990955	.0044085	.0126991	122.3733	.3308906	.0714042

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8994131	147.1137	6.967566	28.00185	.1989341	-.008080
Stddev	.0028148	1.6324	.073789	.31482	.0009615	.000152
%RSD	.3129549	1.109621	1.059041	1.124273	.4833468	1.881457
#1	.8987609	145.4169	6.890790	27.66956	.1991959	-.007950
#2	.9024967	148.6731	7.037954	28.29566	.1997376	-.008045
#3	.8969817	147.2510	6.973954	28.04032	.1978688	-.008247

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8231204	.1466057	3.668983	6.064161	F 13.45441	.6354122
Stddev	.0167688	.0019344	.030705	.083700	.03445	.0075728
%RSD	2.037219	1.319448	.8368908	1.380233	.2560633	1.191799
#1	.8378849	.1449435	3.635314	5.970097	13.46960	.6275810
#2	.8048892	.1487289	3.695442	6.091968	13.41498	.6426972
#3	.8265870	.1461445	3.676193	6.130418	13.47867	.6359583

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-16 Acquired: 1/12/2025 16:59:49 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN14 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0063502	3.118301	F 20.63784	.2031792	.7861272	.0726855
Stddev	.0001395	.001874	.06110	.0012737	.0021299	.0022846
%RSD	2.197207	.0601023	.2960585	.6268718	.2709382	3.143118
#1	.0063100	3.118692	20.64602	.2024870	.7838953	.0707076
#2	.0065054	3.119949	20.57307	.2046491	.7881378	.0751861
#3	.0062351	3.116262	20.69445	.2024016	.7863484	.0721628

Elem	Sr4077
Units	ppm
Avg	.3011666
Stddev	.0037737
%RSD	1.253042
#1	.2972188
#2	.3047381
#3	.3015429

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3013.686	70918.85	10283.77	3388.649	3380.056
Stddev	5.636	523.81	49.82	21.702	5.716
%RSD	.1870223	.7386080	.4844689	.6404373	.1691060
#1	3018.716	71521.71	10257.56	3412.610	3383.778
#2	3007.594	70575.08	10341.22	3370.312	3373.474
#3	3014.747	70659.74	10252.52	3383.026	3382.915

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-17 Acquired: 1/12/2025 17:03:43 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN15 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1288681**	**-.007860**	**5.214295**	**.0396763**	**.0011978**	**64.09040**
Stddev	.0013164	.001294	.007663	.0030135	.0008200	.15660
%RSD	1.021476	16.46638	.1469573	7.595289	68.45505	.2443410
#1	.1278073	-.007644	5.221696	.0385420	.0002555	64.14888
#2	.1284558	-.009249	5.206395	.0430924	.0015896	63.91298
#3	.1303413	-.006687	5.214793	.0373945	.0017484	64.20934

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.485058**	**.0054040**	**.0166523**	**218.1327**	**.3213875**	**.1043205**
Stddev	.005735	.0001243	.0001169	.3383	.0007494	.0002913
%RSD	.2307796	2.300037	.7018900	.1550971	.2331865	.2792700
#1	2.491432	.0055466	.0167321	218.3997	.3209168	.1045043
#2	2.480315	.0053466	.0165182	217.7522	.3209940	.1039846
#3	2.483426	.0053187	.0167067	218.2462	.3222517	.1044727

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8435241**	**220.4987**	**11.16826**	**43.14440**	**.2368187**	**-.016785**
Stddev	.0024137	.3772	.01213	.06183	.0003787	.000204
%RSD	.2861477	.1710496	.1085865	.1433074	.1599019	1.217638
#1	.8462481	220.6238	11.17979	43.07306	.2372243	-.016568
#2	.8426732	220.0749	11.15561	43.18239	.2367575	-.016975
#3	.8416511	220.7974	11.16937	43.17775	.2364744	-.016812

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.063614**	**.1813421**	**3.931547**	**8.043398**	F **19.18555**	**.9312729**
Stddev	.044955	.0006339	.002469	.008452	.03640	.0020222
%RSD	4.226606	.3495420	.0627874	.1050779	.1897411	.2171484
#1	1.015915	.1820725	3.931174	8.052529	19.22215	.9300014
#2	1.069727	.1809364	3.934182	8.041815	19.14935	.9302125
#3	1.105199	.1810173	3.929287	8.035849	19.18516	.9336048

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-17 Acquired: 1/12/2025 17:03:43 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN15 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0075433	2.694968	F 20.60798	.2016249	.9241128	.1022722
Stddev	.0002876	.007784	.08787	.0005808	.0020906	.0005349
%RSD	3.812649	.2888279	.4263731	.2880511	.2262304	.5230361
#1	.0078332	2.701054	20.67107	.2012945	.9264281	.1021447
#2	.0075387	2.686197	20.64523	.2012847	.9235471	.1028593
#3	.0072581	2.697653	20.50762	.2022955	.9223633	.1018125

Elem	Sr4077
Units	ppm
Avg	.4203769
Stddev	.0013657
%RSD	.3248821
#1	.4209326
#2	.4188209
#3	.4213772

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3233.340	76329.13	10928.54	3604.245	3239.925
Stddev	2.490	163.75	28.14	3.035	5.495
%RSD	.0770181	.2145369	.2574937	.0842123	.1696071
#1	3230.589	76177.83	10900.54	3604.680	3233.742
#2	3233.995	76502.99	10928.26	3601.015	3244.252
#3	3235.438	76306.56	10956.82	3607.039	3241.780

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-18 Acquired: 1/12/2025 17:07:37 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN16 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0966942**	**-.009131**	**1.668575**	**.0249178**	**-.000994**	**58.01590**
Stddev	.0009363	.000228	.000806	.0020148	.000660	.11113
%RSD	.9682816	2.500291	.0483249	8.085732	66.38617	.1915586
#1	.0966897	-.009270	1.668865	.0233830	-.000285	57.91471
#2	.0976327	-.009256	1.669197	.0271993	-.001590	58.13484
#3	.0957602	-.008868	1.667664	.0241710	-.001108	57.99814

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.211153**	**.0048043**	**.0093600**	**210.0952**	**.1929562**	**.0972498**
Stddev	.005578	.0000651	.0001292	.4599	.0002677	.0004600
%RSD	.2522758	1.354144	1.380500	.2188848	.1387376	.4730293
#1	2.214560	.0047470	.0093162	209.9169	.1927184	.0967277
#2	2.214183	.0047910	.0092584	210.6175	.1932461	.0975956
#3	2.204715	.0048750	.0095054	209.7511	.1929041	.0974260

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4145908**	**163.0547**	**15.15748**	**41.13294**	**.1570626**	**-.012864**
Stddev	.0021331	.4440	.02732	.19614	.0002410	.000070
%RSD	.5145158	.2723232	.1802533	.4768493	.1534330	.5461767
#1	.4125417	162.7120	15.14538	40.92327	.1573267	-.012913
#2	.4144318	163.5563	15.18876	41.31194	.1570066	-.012783
#3	.4167991	162.8959	15.13829	41.16363	.1568546	-.012894

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6305716**	**.1515677**	**1.464496**	**6.699730**	**9.854967**	**.6845940**
Stddev	.0621303	.0004256	.003495	.007583	.012307	.0022565
%RSD	9.853018	.2807892	.2386635	.1131772	.1248774	.3296065
#1	.6874551	.1520434	1.464001	6.691716	9.868568	.6822730
#2	.6399899	.1514368	1.461275	6.706791	9.851730	.6867799
#3	.5642699	.1512230	1.468212	6.700683	9.844602	.6847291

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-18 Acquired: 1/12/2025 17:07:37 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN16 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0091345**	**1.584877**	F **19.29180**	**.0693215**	**.9268437**	**.0922140**
Stddev	.0001372	.005535	.01989	.0005780	.0010079	.0006121
%RSD	1.501520	.3492136	.1030779	.8337329	.1087460	.6637789
#1	.0091187	1.586855	19.31329	.0687578	.9280027	.0916986
#2	.0090058	1.578625	19.28807	.0692939	.9263552	.0928905
#3	.0092788	1.589151	19.27404	.0699127	.9261731	.0920528

Elem	Sr4077
Units	ppm
Avg	**.2644897**
Stddev	.0003902
%RSD	.1475226
#1	.2641496
#2	.2649156
#3	.2644038

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3070.028**	**74986.82**	**10427.87**	**3497.454**	**3195.974**
Stddev	9.420	231.98	26.06	11.766	9.998
%RSD	.3068402	.3093611	.2498613	.3364048	.3128383
#1	3062.402	75243.50	10450.53	3507.125	3187.710
#2	3067.124	74792.12	10433.66	3500.882	3193.124
#3	3080.558	74924.85	10399.40	3484.355	3207.088

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-19 Acquired: 1/12/2025 17:11:34 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN17 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0831683**	**-.013716**	**.6922497**	**.0264991**	**-.003766**	**48.74886**
Stddev	.0006208	.001401	.0028226	.0002141	.000681	.37608
%RSD	.7464501	10.21277	.4077467	.8079732	18.07655	.7714711
#1	.0834450	-.014928	.6898240	.0262529	-.004144	48.50095
#2	.0824572	-.014039	.6953478	.0266419	-.004173	48.56404
#3	.0836026	-.012182	.6915771	.0266026	-.002980	49.18159

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.429411**	**.0049701**	**.0067166**	**85.12259**	**.1233150**	**.0827853**
Stddev	.016673	.0001588	.0001267	.57253	.0003117	.0007250
%RSD	.6862787	3.195070	1.885771	.6725918	.2527607	.8757559
#1	2.419427	.0049375	.0065956	84.70527	.1229564	.0820507
#2	2.420148	.0051426	.0068483	84.88721	.1234671	.0835003
#3	2.448658	.0048301	.0067060	85.77529	.1235213	.0828050

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2878085**	**140.8416**	**25.69348**	**27.36908**	**.1201836**	**-.008622**
Stddev	.0035597	1.0238	.20583	.16143	.0017445	.000171
%RSD	1.236828	.7268817	.8011155	.5898258	1.451555	1.979705
#1	.2837169	140.1075	25.60263	27.23649	.1184389	-.008641
#2	.2901936	140.4061	25.92911	27.32191	.1219280	-.008782
#3	.2895152	142.0111	25.54871	27.54884	.1201840	-.008442

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4929274**	**.1233335**	**.9132484**	**4.592964**	**6.251816**	**.5865446**
Stddev	.1335080	.0004071	.0019072	.033453	.038173	.0041770
%RSD	27.08471	.3300902	.2088391	.7283525	.6105852	.7121435
#1	.3563545	.1233267	.9154298	4.558300	6.212636	.5849328
#2	.6231433	.1237439	.9124199	4.595535	6.288894	.5834136
#3	.4992845	.1229298	.9118956	4.625058	6.253920	.5912874

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-19 Acquired: 1/12/2025 17:11:34 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN17 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0121757	.9671415	F 21.73377	.0428955	.6901079	.0752327
Stddev	.0001399	.0060813	.25022	.0009659	.0078974	.0012663
%RSD	1.149277	.6287940	1.151300	2.251845	1.144372	1.683136
#1	.0121278	.9607001	21.44513	.0426151	.6810084	.0739422
#2	.0120661	.9727837	21.88922	.0439705	.6941394	.0752828
#3	.0123333	.9679407	21.86697	.0421007	.6951759	.0764732

Elem	Sr4077
Units	ppm
Avg	.1713350
Stddev	.0015004
%RSD	.8757339
#1	.1704779
#2	.1704595
#3	.1730675

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3132.715	72678.29	10257.22	3464.849	3453.965
Stddev	9.012	217.39	104.67	8.867	18.032
%RSD	.2876815	.2991108	1.020417	.2559016	.5220559
#1	3143.002	72859.19	10372.71	3458.604	3474.772
#2	3128.933	72738.56	10168.62	3474.998	3442.882
#3	3126.210	72437.13	10230.34	3460.946	3444.242

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-02 Acquired: 1/12/2025 17:15:40 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMR5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1682307**	**-.001014**	**1.739957**	**.0267849**	**-.000218**	**60.19547**
Stddev	.0013774	.000525	.002450	.0003752	.000454	.30130
%RSD	.8187413	51.73737	.1408063	1.400836	208.4785	.5005283
#1	.1666681	-.000409	1.740500	.0271090	-.000153	60.14404
#2	.1687555	-.001332	1.737281	.0268719	.000200	59.92319
#3	.1692686	-.001302	1.742089	.0263739	-.000700	60.51916

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.374082**	**.0065268**	**.0099534**	**42.22750**	**.2197410**	**.0877411**
Stddev	.005401	.0000112	.0000572	.22019	.0001700	.0000939
%RSD	.3930413	.1711981	.5748203	.5214320	.0773700	.1070739
#1	1.376573	.0065340	.0099358	42.27087	.2199236	.0877733
#2	1.367885	.0065325	.0100173	41.98885	.2197119	.0876353
#3	1.377788	.0065140	.0099071	42.42277	.2195873	.0878147

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4621669**	**117.0514**	**7.878412**	**13.41470**	**.2090488**	**-.008190**
Stddev	.0016126	.5760	.036437	.05038	.0005328	.000205
%RSD	.3489296	.4920606	.4624903	.3755837	.2548443	2.502500
#1	.4622927	116.9282	7.885733	13.37526	.2091187	-.008240
#2	.4637130	116.5470	7.838870	13.39737	.2084846	-.008365
#3	.4604951	117.6790	7.910633	13.47146	.2095432	-.007965

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6742107**	**.2154188**	**1.481938**	**7.188750**	F **10.17306**	**.5033115**
Stddev	.0940725	.0023240	.004844	.039682	.00422	.0031399
%RSD	13.95299	1.078809	.3268784	.5520081	.0415062	.6238389
#1	.7601316	.2141875	1.486926	7.229431	10.17708	.5022523
#2	.5736929	.2180993	1.477252	7.186670	10.16866	.5008381
#3	.6888075	.2139695	1.481637	7.150148	10.17344	.5068439

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-02 Acquired: 1/12/2025 17:15:40 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMR5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0081411	2.932124	F 20.54432	.0657157	.8629154	.1069074
Stddev	.0003065	.003121	.08389	.0003320	.0032477	.0005148
%RSD	3.764916	.1064446	.4083397	.5052396	.3763653	.4815733
#1	.0083371	2.930736	20.46746	.0653381	.8598559	.1074976
#2	.0082982	2.935699	20.63381	.0659620	.8663233	.1065507
#3	.0077879	2.929938	20.53168	.0658470	.8625671	.1066738

Elem	Sr4077
Units	ppm
Avg	.2959677
Stddev	.0015559
%RSD	.5257020
#1	.2957616
#2	.2945251
#3	.2976164

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3054.742	72303.56	10102.05	3435.891	3465.379
Stddev	6.638	350.32	29.79	21.791	4.000
%RSD	.2173067	.4845105	.2948739	.6342244	.1154359
#1	3061.695	72109.52	10117.28	3418.469	3468.911
#2	3054.061	72707.97	10067.73	3460.325	3466.191
#3	3048.471	72093.20	10121.14	3428.879	3461.035

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-03 Acquired: 1/12/2025 17:19:34 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMR6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1473135**	**-.000883**	**1.577789**	**.0302114**	**-.000476**	**63.36850**
Stddev	.0022870	.002283	.002310	.0015011	.001501	.27043
%RSD	1.552454	258.4947	.1464113	4.968543	315.5394	.4267600
#1	.1449408	-.001881	1.580386	.0284841	.000477	63.08894
#2	.1495038	.001729	1.575964	.0309511	.000302	63.62878
#3	.1474959	-.002498	1.577017	.0311991	-.002206	63.38777

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.316573**	**.0062544**	**.0098527**	**39.98408**	**.1887282**	**.0824200**
Stddev	.005740	.0000448	.0001988	.18834	.0007992	.0001100
%RSD	.4359459	.7157320	2.017801	.4710298	.4234763	.1335143
#1	1.311472	.0063021	.0100391	39.80933	.1878054	.0824847
#2	1.322788	.0062479	.0096434	40.18356	.1891933	.0822930
#3	1.315461	.0062133	.0098756	39.95935	.1891859	.0824824

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4211903**	**126.3083**	**8.814996**	**16.72046**	**.1919912**	**-.008739**
Stddev	.0027039	.7057	.031548	.09826	.0006660	.000240
%RSD	.6419685	.5587254	.3578907	.5876425	.3469083	2.747210
#1	.4208070	125.5643	8.782255	16.61708	.1924418	-.009011
#2	.4240654	126.9683	8.845198	16.81263	.1912262	-.008653
#3	.4186985	126.3923	8.817534	16.73167	.1923056	-.008554

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7553383**	**.2210681**	**1.468253**	**7.229439**	**9.727641**	**.5426193**
Stddev	.1639172	.0019033	.001511	.069204	.031803	.0028271
%RSD	21.70116	.8609397	.1029081	.9572528	.3269346	.5210018
#1	.5697797	.2230936	1.469841	7.154085	9.762741	.5396249
#2	.8804414	.2193168	1.466833	7.290149	9.700741	.5452423
#3	.8157937	.2207941	1.468087	7.244084	9.719440	.5429908

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-03 Acquired: 1/12/2025 17:19:34 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMR6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0082500	2.402853	F 21.80581	.0626653	.8713514	.1115160
Stddev	.0001380	.005117	.06734	.0014966	.0025220	.0009544
%RSD	1.673290	.2129394	.3088114	2.388242	.2894388	.8558439
#1	.0081358	2.404215	21.86471	.0628223	.8741805	.1118332
#2	.0082108	2.397194	21.82032	.0610964	.8705349	.1122713
#3	.0084034	2.407151	21.73240	.0640772	.8693387	.1104433

Elem	Sr4077
Units	ppm
Avg	.2802535
Stddev	.0014677
%RSD	.5237173
#1	.2786750
#2	.2815771
#3	.2805085

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3153.731	71877.40	10227.33	3444.390	3583.799
Stddev	2.243	289.04	30.16	8.149	7.835
%RSD	.0711350	.4021304	.2948615	.2365795	.2186108
#1	3151.218	72123.97	10194.41	3438.413	3574.845
#2	3155.533	71559.32	10233.97	3441.086	3589.392
#3	3154.442	71948.92	10253.62	3453.672	3587.160

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV010 Acquired: 1/12/2025 17:23:29 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV010 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.722430**	**4.589897**	**23.05673**	**4.736145**	**4.685924**	**364.3697**
Stddev	.015029	.016056	.02894	.017765	.007063	2.9184
%RSD	.3182500	.3498187	.1255377	.3750998	.1507317	.8009504
#1	4.716584	4.572337	23.03166	4.723430	4.680703	364.1381
#2	4.739504	4.593527	23.05013	4.756443	4.693961	367.3970
#3	4.711202	4.603828	23.08841	4.728562	4.683107	361.5739

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.576057**	**.5259723**	**2.612309**	**369.3337**	**14.76131**	**2.334000**
Stddev	.091399	.0019355	.004326	3.2354	.04668	.003592
%RSD	.9544555	.3679887	.1656032	.8760045	.3162097	.1539036
#1	9.681448	.5278293	2.607914	368.7736	14.77872	2.330544
#2	9.518527	.5261207	2.612449	372.8126	14.79678	2.333743
#3	9.528196	.5239668	2.616563	366.4150	14.70843	2.337714

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.18358**	**371.1034**	**14.01189**	**234.0152**	**2.331838**	**1.311716**
Stddev	.02416	.9702	.02773	.7049	.003611	.002964
%RSD	.1703518	.2614486	.1979094	.3012100	.1548558	.2259610
#1	14.18680	370.2795	13.98177	233.4558	2.328987	1.311562
#2	14.15797	372.1728	14.03636	234.8069	2.330629	1.314754
#3	14.20598	370.8578	14.01753	233.7828	2.335899	1.308832

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**372.4861**	**2.325909**	**14.79656**	**136.6570**	**4.615921**	F **5.646892**
Stddev	.2873	.003773	.02800	.5259	.023880	.005557
%RSD	.0771355	.1622239	.1892154	.3847990	.5173466	.0984080
#1	372.4801	2.326051	14.77243	136.1172	4.596612	5.652001
#2	372.2018	2.322067	14.82726	137.1677	4.608527	5.647700
#3	372.7763	2.329609	14.78998	136.6861	4.642624	5.640975

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV010 Acquired: 1/12/2025 17:23:29 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV010 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 4.418692	4.609876	4.675933	4.600942	4.637845	F 4.243883
Stddev	.009062	.004201	.006865	.005694	.003127	.014213
%RSD	.2050889	.0911294	.1468237	.1237497	.0674185	.3348950
#1	4.409169	4.608973	4.675556	4.597570	4.641151	4.227717
#2	4.427210	4.614455	4.669264	4.597740	4.634936	4.249518
#3	4.419697	4.606200	4.682979	4.607516	4.637448	4.254414

Elem	Sr4077
Units	ppm
Avg	4.683446
Stddev	.005754
%RSD	.1228632
#1	4.678308
#2	4.682366
#3	4.689663

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2141.486	52770.92	7974.998	2513.107	2869.631
Stddev	3.325	131.96	39.015	5.631	2.925
%RSD	.1552564	.2500606	.4892158	.2240573	.1019321
#1	2143.731	52705.37	7930.160	2519.577	2871.618
#2	2137.667	52684.56	7993.639	2510.427	2871.003
#3	2143.061	52922.82	8001.196	2509.316	2866.272

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB010 Acquired: 1/12/2025 17:28:02 Type: Unk
Method: EPA SFAM01.0(v33) 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	**-.000437**	**.0010140**	**.0011306**	**.0019961**	**-.000948**	**.0031537**	**-.005329**
Stddev	.001088	.0017848	.0012381	.0021809	.001779	.0041110	.000078
%RSD	248.7988	176.0140	109.5092	109.2600	187.6062	130.3530	1.462292
#1	-.001457	.0023807	.0009174	-.000475	-.000515	.0011547	-.005419
#2	.000707	-.001005	.0024616	.003652	.000574	.0004246	-.005286
#3	-.000562	.001667	.0000130	.002811	-.002904	.0078820	-.005283

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000083**	**.0001367**	**.0161464**	**.0004576**	**-.000006**	**.0005722**	**.0269516**
Stddev	.000072	.0000296	.0075992	.0001291	.000044	.0011059	.0016562
%RSD	85.95155	21.61955	47.06422	28.21114	690.7927	193.2708	6.145089
#1	-.000063	.0001166	.0204883	.0004013	.000018	.0004405	.0271062
#2	-.000024	.0001707	.0073718	.0003662	.000020	-.000462	.0285250
#3	-.000163	.0001229	.0205791	.0006053	-.000057	.001738	.0252235

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005957**	**.0076536**	**-.000233**	**.0002053**	**.1756028**	**-.003125**	**.0003481**
Stddev	.0002175	.0014893	.000289	.0001851	.0960922	.001740	.0000975
%RSD	36.51135	19.45889	124.0811	90.13984	54.72131	55.65826	28.00148
#1	.0008438	.0060086	-.000160	.0002963	.2580787	-.004245	.0004483
#2	.0004380	.0080419	-.000552	-.000008	.1986456	-.004010	.0002536
#3	.0005052	.0089102	.000013	.000327	.0700842	-.001121	.0003425

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.042408**	**-.001034**	**.0011609**	**.0006177**	**.0015215**	**.0058534**	**.0004989**
Stddev	.068134	.000610	.0006063	.0002056	.0037480	.0023859	.0001784
%RSD	160.6645	58.98154	52.22792	33.29125	246.3368	40.76049	35.75717
#1	-.101942	-.001401	.0018560	.0006790	.0056935	.0034911	.0003172
#2	.031902	-.000330	.0008857	.0007857	.0004321	.0082622	.0005059
#3	-.057184	-.001372	.0007409	.0003884	-.001561	.0058069	.0006738

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB010 Acquired: 1/12/2025 17:28:02 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB010 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000458	-.001525	.0000828
Stddev	.000380	.000997	.0000523
%RSD	83.05665	65.36722	63.19872
#1	-.000878	-.000862	.0001274
#2	-.000358	-.002672	.0000960
#3	-.000137	-.001042	.0000252

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2659.970	61882.71	8313.836	2949.210	3774.735
Stddev	6.348	153.27	9.171	9.519	7.213
%RSD	.2386387	.2476755	.1103081	.3227705	.1910856
#1	2654.238	61760.05	8304.014	2940.754	3766.696
#2	2666.792	62054.52	8322.174	2959.519	3780.640
#3	2658.881	61833.55	8315.322	2947.357	3776.870

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-04 Acquired: 1/12/2025 17:32:11 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMR7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0999493**	**-.005681**	**.7177680**	**.0290336**	**-.003023**	**63.34481**
Stddev	.0025783	.000266	.0026323	.0010251	.002004	.36047
%RSD	2.579650	4.677405	.3667344	3.530876	66.27880	.5690564
#1	.0969856	-.005439	.7150689	.0278940	-.005185	63.69585
#2	.1011854	-.005639	.7179071	.0293264	-.001228	62.97560
#3	.1016769	-.005966	.7203280	.0298806	-.002658	63.36296

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.437798**	**.0063504**	**.0095184**	**38.60243**	**.1331252**	**.0827110**
Stddev	.013124	.0000117	.0000385	.22229	.0008794	.0004908
%RSD	.9127550	.1850070	.4047714	.5758357	.6605697	.5934446
#1	1.447424	.0063634	.0095424	38.82421	.1321991	.0822511
#2	1.422849	.0063406	.0094740	38.37964	.1339489	.0832278
#3	1.443121	.0063472	.0095389	38.60342	.1332275	.0826541

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2320630**	**135.4391**	**14.39679**	**17.05210**	**.1619932**	**-.009912**
Stddev	.0018108	.7429	.12322	.10221	.0005492	.000423
%RSD	.7803058	.5484904	.8558693	.5994272	.3390336	4.266609
#1	.2299825	136.2089	14.49597	17.16472	.1617696	-.009466
#2	.2329221	134.7265	14.25886	16.96521	.1615910	-.009964
#3	.2332843	135.3819	14.43555	17.02637	.1626189	-.010307

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5159799**	**.1962937**	**.9174861**	**7.717864**	**9.703457**	**.5743344**
Stddev	.1295835	.0006805	.0022514	.081876	.021850	.0036310
%RSD	25.11407	.3466790	.2453840	1.060865	.2251771	.6322165
#1	.5399707	.1959711	.9200197	7.805565	9.680798	.5771092
#2	.3760773	.1970755	.9167237	7.643434	9.705179	.5702249
#3	.6318915	.1958345	.9157149	7.704593	9.724396	.5756689

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-04 Acquired: 1/12/2025 17:32:11 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMR7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0097061	2.437853	F 22.05410	.0429137	.7008123	.0993931
Stddev	.0003544	.007840	.09151	.0004637	.0018041	.0006141
%RSD	3.651504	.3215830	.4149227	1.080461	.2574262	.6178356
#1	.0099005	2.428809	22.15902	.0427412	.7028750	.0998458
#2	.0092970	2.442042	22.01248	.0425610	.7000327	.0986941
#3	.0099207	2.442709	21.99080	.0434389	.6995291	.0996393

Elem	Sr4077
Units	ppm
Avg	.2047921
Stddev	.0010503
%RSD	.5128781
#1	.2059280
#2	.2038562
#3	.2045920

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3222.454	75605.73	10422.27	3590.050	3505.210
Stddev	.620	259.58	31.08	15.349	1.682
%RSD	.0192279	.3433317	.2981755	.4275455	.0479740
#1	3223.009	75402.97	10446.35	3575.194	3507.010
#2	3221.786	75898.28	10387.19	3605.849	3504.940
#3	3222.566	75515.92	10433.27	3589.107	3503.679

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-05 Acquired: 1/12/2025 17:36:08 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMR8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0742621**	**-.008778**	**.3773157**	**.0254280**	**-.004242**	**61.76340**
Stddev	.0008992	.002645	.0031928	.0014000	.000634	.22542
%RSD	1.210897	30.12818	.8461766	5.505593	14.93572	.3649739
#1	.0738546	-.005975	.3797654	.0238556	-.003947	61.66081
#2	.0752929	-.011229	.3737048	.0265392	-.004970	62.02187
#3	.0736387	-.009131	.3784768	.0258891	-.003810	61.60752

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.943533**	**.0076223**	**.0135796**	**41.83456**	**.1209750**	**.0812857**
Stddev	.002754	.0000946	.0000388	.07836	.0000960	.0005413
%RSD	.1417031	1.241269	.2854573	.1873051	.0793827	.6658974
#1	1.946583	.0077172	.0136242	41.89330	.1210720	.0818871
#2	1.941229	.0076216	.0135599	41.86480	.1208799	.0808375
#3	1.942786	.0075280	.0135546	41.74559	.1209732	.0811325

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1920983**	**127.2674**	**26.22261**	**16.53563**	**.1934290**	**-.007129**
Stddev	.0011150	.4531	.51943	.02768	.0006496	.000122
%RSD	.5804395	.3560162	1.980843	.1673929	.3358133	1.712575
#1	.1921034	127.1317	26.29270	16.53211	.1930375	-.007170
#2	.1909807	127.7728	26.70344	16.56490	.1930706	-.007225
#3	.1932107	126.8976	25.67170	16.50987	.1941788	-.006992

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5926307**	**.1419954**	**.7573483**	**6.307400**	F **10.91920**	**.5427338**
Stddev	.1434302	.0013701	.0024656	.047463	.01961	.0030353
%RSD	24.20228	.9649010	.3255596	.7525031	.1796147	.5592638
#1	.7290339	.1415981	.7599788	6.252656	10.94184	.5409768
#2	.4430790	.1408679	.7569763	6.337020	10.90834	.5462387
#3	.6057792	.1435203	.7550898	6.332525	10.90742	.5409860

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-05 Acquired: 1/12/2025 17:36:08 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMR8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0156026	3.239076	F 22.12061	.0198003	.5384564	.0804924
Stddev	.0002156	.006259	.09121	.0006755	.0015410	.0006269
%RSD	1.381811	.1932413	.4123481	3.411584	.2861964	.7787829
#1	.0154035	3.245011	22.19952	.0200985	.5400866	.0803069
#2	.0158316	3.232537	22.02074	.0202753	.5370235	.0799791
#3	.0155728	3.239681	22.14157	.0190270	.5382591	.0811910

Elem	Sr4077
Units	ppm
Avg	.2057532
Stddev	.0009835
%RSD	.4779749
#1	.2053791
#2	.2068687
#3	.2050116

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3456.944	80456.40	11224.07	3818.980	3485.290
Stddev	2.672	217.50	21.59	13.185	4.059
%RSD	.0772932	.2703266	.1923270	.3452427	.1164490
#1	3453.860	80522.07	11199.54	3806.894	3485.704
#2	3458.559	80213.64	11232.51	3817.005	3489.125
#3	3458.413	80633.49	11240.17	3833.041	3481.039

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-01 Acquired: 1/12/2025 17:40:11 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN19 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1055089**	**-.013860**	**.8463159**	**.0319386**	**-.004693**	**54.88576**
Stddev	.0016040	.002656	.0011289	.0012879	.001055	.90039
%RSD	1.520205	19.16246	.1333915	4.032481	22.47730	1.640486
#1	.1048697	-.016377	.8458502	.0310780	-.005017	55.88349
#2	.1043232	-.011084	.8476031	.0313185	-.003514	54.13370
#3	.1073339	-.014119	.8454943	.0334193	-.005547	54.64009

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.060992**	**.0056062**	**.0158487**	**54.23980**	**.1237337**	**.1487284**
Stddev	.032142	.0000081	.0001978	.79328	.0013979	.0005040
%RSD	1.559538	.1448149	1.247716	1.462538	1.129728	.3388975
#1	2.093882	.0056094	.0156315	55.11251	.1253063	.1485956
#2	2.029654	.0056123	.0160183	53.56247	.1226324	.1492855
#3	2.059440	.0055970	.0158963	54.04442	.1232624	.1483040

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3400795**	**149.5877**	**28.04246**	**26.92087**	**.2097880**	**-.008647**
Stddev	.0017166	2.1783	.62220	.35054	.0002660	.000394
%RSD	.5047711	1.456213	2.218786	1.302104	.1267792	4.561329
#1	.3410802	152.0214	28.76007	27.31154	.2098117	-.009102
#2	.3380973	147.8205	27.71398	26.63383	.2100413	-.008437
#3	.3410609	148.9213	27.65334	26.81724	.2095110	-.008403

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.107447**	**.1267132**	**1.801752**	**5.593353**	**8.687299**	**.6296582**
Stddev	.121542	.0005208	.024850	.138548	.009686	.0115439
%RSD	10.97497	.4109887	1.379228	2.477012	.1114940	1.833353
#1	1.011307	.1270785	1.830195	5.743242	8.677616	.6423168
#2	1.066971	.1269443	1.790816	5.469978	8.696988	.6197122
#3	1.244062	.1261169	1.784245	5.566838	8.687293	.6269456

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-01 Acquired: 1/12/2025 17:40:11 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN19 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0101994	1.839058	F 23.57082	.0731629	.7414954	.0913737
Stddev	.0002130	.002565	.05371	.0004870	.0006485	.0016910
%RSD	2.088674	.1394739	.2278841	.6656801	.0874530	1.850589
#1	.0099780	1.836182	23.50912	.0727146	.7414605	.0929640
#2	.0102172	1.841110	23.59615	.0730931	.7408651	.0895974
#3	.0104029	1.839881	23.60718	.0736811	.7421606	.0915598

Elem	Sr4077
Units	ppm
Avg	.1882534
Stddev	.0031821
%RSD	1.690337
#1	.1917420
#2	.1855102
#3	.1875079

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3371.749	77582.99	10884.15	3710.954	3493.361
Stddev	3.394	872.55	79.21	46.372	4.483
%RSD	.1006590	1.124662	.7277687	1.249611	.1283274
#1	3375.516	76575.46	10941.66	3658.332	3497.677
#2	3368.930	78087.01	10793.80	3728.685	3488.728
#3	3370.799	78086.50	10917.01	3745.845	3493.678

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-02 Acquired: 1/12/2025 17:44:15 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0722796**	**-.001357**	**1.972093**	**.0456892**	**-.001859**	**67.46824**
Stddev	.0016804	.001061	.003629	.0003517	.001140	.40126
%RSD	2.324804	78.17104	.1840125	.7696652	61.32609	.5947393
#1	.0703498	-.002520	1.974015	.0457928	-.001398	67.55822
#2	.0730697	-.000440	1.974357	.0452973	-.003157	67.81687
#3	.0734193	-.001112	1.967907	.0459773	-.001021	67.02963

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.141727**	**.0039637**	**.0101704**	**73.87550**	**.2306046**	**.0757916**
Stddev	.008058	.0002108	.0000376	.37405	.0005364	.0003337
%RSD	.7057682	5.317693	.3693181	.5063249	.2326004	.4403255
#1	1.142930	.0039103	.0101592	73.94894	.2304007	.0754142
#2	1.149115	.0037848	.0102123	74.20738	.2302001	.0759132
#3	1.133135	.0041961	.0101397	73.47017	.2312131	.0760476

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4819246**	**197.0639**	**6.291156**	**30.97955**	**.3188004**	**-.015491**
Stddev	.0018176	1.0066	.027140	.09070	.0004784	.000582
%RSD	.3771537	.5107871	.4313923	.2927618	.1500660	3.757889
#1	.4829080	197.1886	6.289618	30.95838	.3193529	-.015852
#2	.4830387	198.0023	6.319032	31.07896	.3185234	-.014820
#3	.4798272	196.0008	6.264819	30.90131	.3185250	-.015802

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9328304**	**.1626435**	**1.994918**	**9.273730**	F **12.20351**	**.8414935**
Stddev	.2196085	.0023113	.002885	.027180	.02231	.0054885
%RSD	23.54216	1.421059	.1446215	.2930878	.1828347	.6522332
#1	1.186174	.1602413	1.993723	9.255041	12.17918	.8417582
#2	.796634	.1628376	1.998208	9.261239	12.20833	.8468449
#3	.815684	.1648515	1.992822	9.304910	12.22301	.8358775

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-02 Acquired: 1/12/2025 17:44:15 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0093169	5.017095	F 26.95726	.1396614	.9000653	.0795758
Stddev	.0001148	.014023	.10292	.0013408	.0017205	.0004960
%RSD	1.232591	.2795014	.3817809	.9600527	.1911523	.6233499
#1	.0092486	5.031795	26.90585	.1402442	.8993551	.0800863
#2	.0092526	5.015626	26.89017	.1381279	.8988135	.0790956
#3	.0094495	5.003865	27.07575	.1406123	.9020272	.0795454

Elem	Sr4077
Units	ppm
Avg	.1942926
Stddev	.0015012
%RSD	.7726350
#1	.1950056
#2	.1953043
#3	.1925678

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2949.107	67329.81	9763.797	3225.726	3508.810
Stddev	1.950	89.13	64.673	3.991	2.366
%RSD	.0661057	.1323843	.6623760	.1237237	.0674267
#1	2950.323	67432.72	9793.270	3227.164	3509.484
#2	2946.859	67277.18	9808.483	3221.215	3510.766
#3	2950.140	67279.51	9689.637	3228.799	3506.180

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-03 Acquired: 1/12/2025 17:48:08 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0743911**	**-.004702**	**1.754919**	**.0380443**	**-.001621**	**67.33886**
Stddev	.0010254	.001108	.004556	.0034975	.002248	.44658
%RSD	1.378325	23.57466	.2596376	9.193257	138.6599	.6631844
#1	.0745645	-.005148	1.754023	.0369631	.000970	66.95212
#2	.0753186	-.005518	1.759856	.0352151	-.003049	67.23684
#3	.0732900	-.003440	1.750877	.0419548	-.002784	67.82762

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.202383**	**.0039771**	**.0109283**	**167.0207**	**.2026797**	**.0703995**
Stddev	.005368	.0001237	.0000714	.8801	.0008513	.0005215
%RSD	.4464811	3.110332	.6530679	.5269703	.4200284	.7407847
#1	1.196795	.0040596	.0109438	166.2876	.2021574	.0708496
#2	1.202853	.0040368	.0109907	166.7776	.2022197	.0705209
#3	1.207501	.0038348	.0108505	167.9968	.2036621	.0698280

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4691459**	**188.7174**	**6.749219**	**47.52996**	**.2472848**	**-.015283**
Stddev	.0035794	1.2472	.036622	.30181	.0008022	.000108
%RSD	.7629609	.6608865	.5426036	.6349938	.3243979	.7049844
#1	.4709304	187.7121	6.715769	47.26909	.2466656	-.015218
#2	.4714823	188.3271	6.743540	47.46026	.2481910	-.015408
#3	.4650251	190.1131	6.788348	47.86052	.2469979	-.015225

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.240687**	**.1555738**	**1.964172**	**8.180079**	F **12.07013**	**.8071049**
Stddev	.034451	.0008304	.011152	.035837	.04003	.0074584
%RSD	2.776746	.5337606	.5677661	.4380968	.3316820	.9240947
#1	1.254945	.1559598	1.956085	8.184786	12.07331	.8015605
#2	1.201396	.1546207	1.959538	8.142122	12.10848	.8041698
#3	1.265719	.1561410	1.976894	8.213330	12.02860	.8155843

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-03 Acquired: 1/12/2025 17:48:08 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0074685	4.775536	F 24.88492	.1540580	1.016447	.0824510
Stddev	.0003357	.021633	.08935	.0002083	.002321	.0005961
%RSD	4.495093	.4529883	.3590704	.1351814	.2283318	.7229624
#1	.0073470	4.767456	24.92764	.1539133	1.017084	.0829335
#2	.0078480	4.800045	24.94491	.1542967	1.018384	.0826350
#3	.0072104	4.759106	24.78223	.1539641	1.013875	.0817847

Elem	Sr4077
Units	ppm
Avg	.2904958
Stddev	.0021497
%RSD	.7400092
#1	.2887537
#2	.2898354
#3	.2928982

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2874.866	65877.08	9628.962	3171.956	3331.694
Stddev	6.389	130.17	74.235	1.297	7.253
%RSD	.2222498	.1975942	.7709565	.0408807	.2176961
#1	2868.184	65802.25	9551.513	3173.114	3326.868
#2	2875.498	66027.38	9635.874	3172.198	3328.179
#3	2880.916	65801.60	9699.500	3170.555	3340.035

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-04 Acquired: 1/12/2025 17:52:03 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0875534**	**-.005332**	**3.083203**	**.0299306**	**-.001679**	**52.78383**
Stddev	.0012025	.000680	.006456	.0024408	.000090	.11256
%RSD	1.373460	12.74623	.2094023	8.154762	5.362622	.2132547
#1	.0874030	-.006111	3.081925	.0296869	-.001577	52.91261
#2	.0888241	-.005020	3.090203	.0324841	-.001748	52.73465
#3	.0864332	-.004864	3.077481	.0276208	-.001712	52.70422

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.708572**	**.0044288**	**.0096478**	**141.6270**	**.1648300**	**.0829880**
Stddev	.003771	.0000823	.0000679	.4558	.0000846	.0002537
%RSD	.2207115	1.859435	.7038791	.3218089	.0513443	.3057533
#1	1.711095	.0044646	.0096764	142.1334	.1647468	.0827814
#2	1.704237	.0044872	.0096968	141.2496	.1648272	.0832712
#3	1.710385	.0043346	.0095703	141.4981	.1649160	.0829114

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4833326**	**142.7485**	**9.623569**	**40.49386**	**.1702215**	**-.010892**
Stddev	.0030073	.3990	.026172	.18147	.0003737	.000819
%RSD	.6222072	.2795090	.2719574	.4481387	.2195170	7.515358
#1	.4819897	143.1447	9.649062	40.70114	.1700352	-.010210
#2	.4867774	142.3468	9.596767	40.36361	.1706517	-.011800
#3	.4812307	142.7540	9.624878	40.41683	.1699776	-.010666

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.055944**	**.1442513**	**2.125899**	**6.278409**	F **13.64587**	**.6236014**
Stddev	.142300	.0006366	.004374	.016630	.05893	.0029419
%RSD	13.47613	.4413003	.2057564	.2648767	.4318650	.4717634
#1	1.110911	.1436719	2.125567	6.297564	13.66846	.6260476
#2	.894359	.1441493	2.130429	6.270003	13.69016	.6203369
#3	1.162563	.1449328	2.121700	6.267660	13.57898	.6244196

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-04 Acquired: 1/12/2025 17:52:03 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0070269	3.007986	F 25.10394	.4112751	.7168533	.0759172
Stddev	.0000229	.015863	.03732	.0015362	.0017700	.0002401
%RSD	.3262616	.5273553	.1486702	.3735151	.2469113	.3162317
#1	.0070312	3.023817	25.07768	.4106873	.7163027	.0761825
#2	.0070021	3.008049	25.08748	.4130184	.7154241	.0757149
#3	.0070473	2.992091	25.14666	.4101196	.7188332	.0758543

Elem	Sr4077
Units	ppm
Avg	.3007425
Stddev	.0005480
%RSD	.1822184
#1	.3013562
#2	.3005693
#3	.3003020

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3058.268	72088.12	10338.60	3443.350	3366.948
Stddev	5.848	79.67	16.66	11.873	5.935
%RSD	.1912218	.1105172	.1611228	.3448128	.1762770
#1	3061.599	72000.87	10357.73	3429.660	3366.449
#2	3051.515	72106.50	10330.76	3449.547	3361.279
#3	3061.689	72157.00	10327.31	3450.841	3373.117

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-06 Acquired: 1/12/2025 17:55:58 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMR9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0766532**	**-.006879**	**.3141134**	**.0264157**	**-.004193**	**59.04189**
Stddev	.0013470	.001172	.0027812	.0023365	.001323	.46356
%RSD	1.757250	17.03688	.8854121	8.845144	31.54715	.7851347
#1	.0781915	-.007981	.3160407	.0238667	-.002681	58.56182
#2	.0756850	-.005648	.3109250	.0284559	-.005133	59.48695
#3	.0760830	-.007010	.3153744	.0269243	-.004767	59.07691

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.463542**	**.0057135**	**.0099178**	**33.40114**	**.1341732**	**.0857375**
Stddev	.018158	.0001152	.0001880	.28456	.0006554	.0002202
%RSD	1.240697	2.015859	1.896038	.8519563	.4884654	.2567678
#1	1.445618	.0058408	.0100213	33.11808	.1346357	.0859163
#2	1.481926	.0056166	.0097007	33.68718	.1344607	.0858046
#3	1.463083	.0056830	.0100314	33.39816	.1334232	.0854916

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1490048**	**140.0477**	**16.55286**	**17.95481**	**.1658897**	**-.009635**
Stddev	.0021115	.9739	.15730	.10948	.0005947	.000294
%RSD	1.417067	.6953900	.9503106	.6097263	.3585032	3.053636
#1	.1478005	139.0823	16.40074	17.87729	.1658377	-.009962
#2	.1477711	141.0299	16.71488	18.08004	.1653227	-.009391
#3	.1514429	140.0309	16.54297	17.90709	.1665087	-.009552

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4367671**	**.1602941**	**.7360523**	**5.332139**	**8.455904**	**.5872607**
Stddev	.2555236	.0012622	.0012034	.066473	.009056	.0054412
%RSD	58.50340	.7874364	.1634928	1.246653	.1071013	.9265321
#1	.1574841	.1588369	.7357967	5.261831	8.466246	.5814016
#2	.6588287	.1610465	.7373630	5.340625	8.449389	.5921548
#3	.4939886	.1609989	.7349973	5.393962	8.452077	.5882258

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-06 Acquired: 1/12/2025 17:55:58 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMR9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0069693	1.904341	F 21.69217	.0153077	.6667793	.0837419
Stddev	.0002298	.011290	.01756	.0001735	.0007436	.0020561
%RSD	3.297450	.5928617	.0809565	1.133486	.1115215	2.455246
#1	.0072019	1.917334	21.68774	.0152166	.6663102	.0823382
#2	.0069635	1.896925	21.71153	.0151986	.6676367	.0861020
#3	.0067424	1.898764	21.67725	.0155078	.6663910	.0827857

Elem	Sr4077
Units	ppm
Avg	.1469996
Stddev	.0012276
%RSD	.8351270
#1	.1456254
#2	.1479880
#3	.1473854

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3289.124	78580.84	10694.95	3709.717	3522.368
Stddev	.874	109.95	76.34	19.384	4.038
%RSD	.0265718	.1399157	.7138295	.5225131	.1146273
#1	3290.129	78624.18	10612.50	3732.000	3522.068
#2	3288.695	78455.83	10763.19	3700.407	3526.547
#3	3288.547	78662.51	10709.17	3696.746	3518.489

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-07 Acquired: 1/12/2025 17:59:55 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMS0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0563758**	**-.002644**	**.2134767**	**.0288657**	**-.002332**	**60.38927**
Stddev	.0021091	.000918	.0023523	.0005090	.002242	.48578
%RSD	3.741064	34.73494	1.101886	1.763333	96.12661	.8044173
#1	.0568903	-.002976	.2115409	.0291181	-.004634	59.98868
#2	.0581800	-.003350	.2127947	.0282798	-.002205	60.92961
#3	.0540571	-.001606	.2160947	.0291992	-.000156	60.24952

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6446516**	**.0036964**	**.0050559**	**177.5626**	**.1223030**	**.0769550**
Stddev	.0043944	.0000222	.0001845	1.1949	.0003359	.0001142
%RSD	.6816682	.5999867	3.649967	.6729549	.2746688	.1483813
#1	.6408206	.0037150	.0051939	176.3935	.1219410	.0768794
#2	.6494486	.0036718	.0051276	178.7818	.1223636	.0768992
#3	.6436855	.0037023	.0048463	177.5126	.1226046	.0770863

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1379281**	**158.0464**	**5.145758**	**65.73030**	**.1549579**	**-.014504**
Stddev	.0020324	1.1331	.033586	.38859	.0006988	.000426
%RSD	1.473492	.7169555	.6526974	.5911812	.4509848	2.939020
#1	.1400170	157.0073	5.115085	65.34507	.1556959	-.014680
#2	.1378097	159.2546	5.181648	66.12215	.1548714	-.014017
#3	.1359574	157.8773	5.140542	65.72368	.1543063	-.014813

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7487695**	**.1398471**	**.6569571**	**6.923183**	**6.325766**	**.6719958**
Stddev	.0569628	.0009886	.0029504	.022865	.001021	.0059383
%RSD	7.607516	.7069520	.4490966	.3302666	.0161446	.8836800
#1	.7615454	.1409354	.6574689	6.899630	6.325042	.6666353
#2	.6865037	.1396017	.6537843	6.945291	6.325323	.6783790
#3	.7982595	.1390043	.6596180	6.924629	6.326935	.6709730

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-07 Acquired: 1/12/2025 17:59:55 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMS0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020108	.8355111	F 19.59823	.0095645	.9510977	.1037327
Stddev	.0000609	.0032005	.05678	.0005810	.0007956	.0014652
%RSD	3.029030	.3830601	.2897366	6.074470	.0836468	1.412513
#1	.0020698	.8326729	19.64012	.0099392	.9516836	.1024949
#2	.0019482	.8389800	19.62096	.0098592	.9501920	.1053505
#3	.0020143	.8348804	19.53360	.0088953	.9514176	.1033526

Elem	Sr4077
Units	ppm
Avg	.2362316
Stddev	.0018900
%RSD	.8000808
#1	.2347153
#2	.2383491
#3	.2356305

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3022.974	69466.81	9998.566	3300.958	3369.694
Stddev	4.788	110.18	44.223	11.424	3.991
%RSD	.1583771	.1586032	.4422921	.3460950	.1184276
#1	3018.192	69517.81	9950.504	3290.429	3365.231
#2	3022.961	69340.37	10037.54	3313.105	3370.931
#3	3027.768	69542.24	10007.66	3299.340	3372.919

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-08 Acquired: 1/12/2025 18:03:53 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0705938**	**-.003027**	**1.186957**	**.0238628**	**-.001292**	**52.06223**
Stddev	.0017912	.000933	.000804	.0046303	.001162	.27579
%RSD	2.537374	30.82005	.0677145	19.40368	89.94326	.5297401
#1	.0714308	-.002432	1.186878	.0280865	-.002563	52.13490
#2	.0718133	-.004102	1.187797	.0245900	-.001031	52.29442
#3	.0685373	-.002547	1.186195	.0189120	-.000283	51.75738

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7845671**	**.0035774**	**.0063187**	**131.9368**	**.1175119**	**.0656029**
Stddev	.0060687	.0000614	.0000580	.6957	.0003994	.0005460
%RSD	.7735037	1.715076	.9179316	.5273066	.3398920	.8322913
#1	.7858869	.0036369	.0063566	132.0549	.1173460	.0654327
#2	.7898672	.0035144	.0063476	132.5660	.1179676	.0662138
#3	.7779471	.0035809	.0062519	131.1897	.1172222	.0651624

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3227504**	**121.7956**	**6.382161**	**49.23428**	**.1812769**	**-.009878**
Stddev	.0016721	.6162	.036137	.23800	.0002828	.000501
%RSD	.5180756	.5058907	.5662138	.4833976	.1560204	5.072899
#1	.3213846	121.8969	6.385488	49.20274	.1809647	-.009438
#2	.3246152	122.3547	6.416519	49.48647	.1813501	-.009773
#3	.3222514	121.1350	6.344476	49.01362	.1815160	-.010423

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6249927**	**.1254022**	**1.300381**	**7.218596**	**9.446195**	**.5320292**
Stddev	.0608231	.0019498	.001504	.046314	.020099	.0036989
%RSD	9.731812	1.554841	.1156507	.6415876	.2127757	.6952436
#1	.6584663	.1231536	1.300393	7.208379	9.426057	.5323568
#2	.6617265	.1266245	1.301880	7.269164	9.446271	.5355534
#3	.5547855	.1264285	1.298872	7.178243	9.466256	.5281773

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-08 Acquired: 1/12/2025 18:03:53 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN06 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0069896	4.294637	F 20.47334	.0515088	.8405332	.0669788
Stddev	.0000844	.012478	.02261	.0005273	.0017355	.0010888
%RSD	1.207704	.2905390	.1104221	1.023673	.2064808	1.625528
#1	.0070859	4.302251	20.49037	.0520691	.8408885	.0662145
#2	.0069545	4.301422	20.44769	.0514351	.8386476	.0682254
#3	.0069284	4.280237	20.48197	.0510223	.8420637	.0664964

Elem	Sr4077
Units	ppm
Avg	.1598705
Stddev	.0011062
%RSD	.6919503
#1	.1604380
#2	.1605777
#3	.1585957

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2978.032	68674.06	9815.727	3245.680	3450.695
Stddev	2.024	168.26	49.156	7.453	4.432
%RSD	.0679619	.2450137	.5007918	.2296269	.1284284
#1	2976.345	68661.24	9832.002	3239.832	3452.378
#2	2977.476	68512.57	9854.683	3243.138	3445.668
#3	2980.276	68848.36	9760.498	3254.072	3454.038

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-09 Acquired: 1/12/2025 18:07:48 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN07 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0694850**	**-.002459**	**1.098245**	**.0203826**	**.0010391**	**48.33467**
Stddev	.0019850	.001201	.002665	.0014017	.0018335	.09047
%RSD	2.856798	48.83826	.2426854	6.877156	176.4475	.1871727
#1	.0674662	-.003414	1.095705	.0213873	.0017843	48.24548
#2	.0695542	-.002853	1.098011	.0209793	.0023827	48.33216
#3	.0714345	-.001111	1.101020	.0187813	-.001050	48.42637

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7462606**	**.0035123**	**.0068170**	**291.8077**	**.1193211**	**.0619532**
Stddev	.0020269	.0000099	.0001007	2.1417	.0004412	.0002273
%RSD	.2716086	.2828847	1.476961	.7339454	.3697620	.3668983
#1	.7459297	.0035055	.0068196	293.8240	.1190054	.0617868
#2	.7484326	.0035077	.0067150	289.5594	.1198252	.0618606
#3	.7444196	.0035237	.0069163	292.0397	.1191325	.0622122

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2703325**	**119.9565**	**6.200752**	**52.53499**	**.1594262**	**-.009878**
Stddev	.0025347	.1135	.009886	.07113	.0006082	.000703
%RSD	.9376094	.0946011	.1594344	.1354005	.3815212	7.117217
#1	.2717559	119.8767	6.210191	52.59288	.1587665	-.010492
#2	.2674061	119.9063	6.201594	52.45559	.1595476	-.009111
#3	.2718356	120.0864	6.190472	52.55652	.1599646	-.010032

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7618645**	**.1206660**	**1.122566**	**5.552649**	**8.053032**	**.5192034**
Stddev	.0789050	.0015836	.005888	.059214	.030861	.0001517
%RSD	10.35683	1.312360	.5245432	1.066418	.3832227	.0292133
#1	.7516941	.1224931	1.120153	5.574132	8.020560	.5190324
#2	.8453615	.1198155	1.129278	5.485691	8.081980	.5193217
#3	.6885378	.1196894	1.118268	5.598122	8.056556	.5192562

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-09 Acquired: 1/12/2025 18:07:48 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN07 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0058682	3.437372	F 19.52605	.0512406	.7409155	.0684443
Stddev	.0000296	.020438	.11083	.0007641	.0018045	.0004797
%RSD	.5036336	.5945681	.5675910	1.491239	.2435493	.7008359
#1	.0059007	3.413783	19.65319	.0518588	.7428093	.0679736
#2	.0058429	3.449784	19.47508	.0514768	.7407212	.0689325
#3	.0058611	3.448548	19.44987	.0503863	.7392160	.0684267

Elem	Sr4077
Units	ppm
Avg	.2183707
Stddev	.0002970
%RSD	.1359890
#1	.2181425
#2	.2182632
#3	.2187065

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2924.345	66883.27	9666.132	3176.778	3318.294
Stddev	4.659	112.65	42.938	10.969	10.700
%RSD	.1593307	.1684287	.4442136	.3452999	.3224442
#1	2929.398	66852.25	9623.453	3185.172	3330.587
#2	2920.218	67008.19	9709.325	3164.366	3311.078
#3	2923.419	66789.39	9665.617	3180.795	3313.216

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-09 Acquired: 1/12/2025 18:11:52 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNJ4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0884088**	**-.007166**	**.5764883**	**.0319526**	**-.001835**	**49.84522**
Stddev	.0029690	.001580	.0009881	.0008810	.001956	.05097
%RSD	3.358289	22.04313	.1713977	2.757142	106.6073	.1022580
#1	.0850813	-.008847	.5758670	.0323406	-.003164	49.80994
#2	.0907873	-.006939	.5776277	.0325731	-.002753	49.82207
#3	.0893579	-.005713	.5759703	.0309443	.000411	49.90366

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.318380**	**.0046272**	**.0065775**	**114.5497**	**.1595664**	**.0838076**
Stddev	.002186	.0000962	.0000278	.0804	.0001632	.0009197
%RSD	.1657974	2.078917	.4226882	.0701519	.1022713	1.097378
#1	1.316809	.0045315	.0065975	114.5039	.1594369	.0842272
#2	1.317454	.0047238	.0065892	114.5028	.1597497	.0844426
#3	1.320876	.0046263	.0065457	114.6425	.1595127	.0827529

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2886967**	**155.3767**	**10.94896**	**26.69138**	**.1371356**	**-.011766**
Stddev	.0015868	.0861	.01231	.07670	.0007064	.000451
%RSD	.5496614	.0553883	.1124609	.2873674	.5150966	3.835850
#1	.2868961	155.2860	10.93673	26.66332	.1365777	-.011758
#2	.2893029	155.3871	10.94880	26.63265	.1379298	-.012221
#3	.2898910	155.4571	10.96135	26.77816	.1368992	-.011318

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9612576**	**.1399275**	**.8545324**	**5.281480**	F **10.30569**	**.6572165**
Stddev	.0870572	.0018108	.0012755	.025692	.00904	.0007798
%RSD	9.056595	1.294067	.1492568	.4864564	.0877657	.1186452
#1	1.020173	.1393161	.8543829	5.260732	10.30262	.6572734
#2	.861261	.1419648	.8558760	5.273490	10.31587	.6564098
#3	1.002338	.1385016	.8533383	5.310218	10.29858	.6579662

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-09 Acquired: 1/12/2025 18:11:52 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNJ4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0074117	1.829299	F 22.98761	.0257084	.6868309	.0695393
Stddev	.0004176	.005318	.04164	.0006092	.0014321	.0005811
%RSD	5.633713	.2907336	.1811497	2.369472	.2085044	.8356728
#1	.0075321	1.823784	23.03567	.0263599	.6864775	.0689074
#2	.0069472	1.834396	22.96219	.0256122	.6884065	.0696599
#3	.0077559	1.829716	22.96497	.0251530	.6856085	.0700507

Elem	Sr4077
Units	ppm
Avg	.2124681
Stddev	.0003759
%RSD	.1768992
#1	.2121414
#2	.2123839
#3	.2128789

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3167.133	73063.40	10474.53	3490.116	3446.607
Stddev	2.289	76.76	36.10	7.543	3.554
%RSD	.0722670	.1050547	.3446571	.2161282	.1031191
#1	3169.415	73081.30	10451.45	3484.287	3450.252
#2	3167.145	72979.28	10456.00	3487.425	3446.416
#3	3164.838	73129.63	10516.13	3498.635	3443.151

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-10 Acquired: 1/12/2025 18:15:49 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0527926**	**-.003680**	**.5001555**	**.0234830**	**-.002777**	**48.07375**
Stddev	.0020342	.001385	.0022475	.0016938	.001669	.38871
%RSD	3.853169	37.62976	.4493634	7.212710	60.08283	.8085636
#1	.0509341	-.005041	.5015424	.0227983	-.004689	48.51266
#2	.0549658	-.003726	.5013618	.0254120	-.001612	47.93560
#3	.0524779	-.002273	.4975624	.0222388	-.002031	47.77298

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.012706**	**.0033206**	**.0049544**	**128.3054**	**.1425305**	**.0708132**
Stddev	.012056	.0000177	.0001599	1.2629	.0015915	.0003632
%RSD	1.190480	.5335908	3.227106	.9842829	1.116581	.5129333
#1	1.026226	.0033218	.0047934	129.7631	.1443648	.0705724
#2	1.008817	.0033376	.0051132	127.6119	.1415169	.0712310
#3	1.003074	.0033023	.0049566	127.5413	.1417099	.0706362

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2762052**	**124.1560**	**7.896803**	**37.39149**	**.1372491**	**-.009521**
Stddev	.0007837	1.0662	.108385	.42102	.0006725	.000414
%RSD	.2837449	.8587945	1.372515	1.125966	.4899718	4.347435
#1	.2768963	125.3731	8.021883	37.87680	.1380255	-.009772
#2	.2763658	123.7088	7.830590	37.17346	.1368691	-.009747
#3	.2753537	123.3862	7.837936	37.12420	.1368526	-.009043

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7847180**	**.1172500**	**.7602419**	**5.243433**	**7.524353**	**.5282293**
Stddev	.2715733	.0006644	.0103481	.061037	.006868	.0050324
%RSD	34.60776	.5666611	1.361158	1.164066	.0912745	.9526928
#1	.6685818	.1178370	.7721307	5.311148	7.531716	.5340376
#2	1.095049	.1173843	.7553349	5.192648	7.523220	.5254760
#3	.590524	.1165287	.7532602	5.226504	7.518122	.5251743

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-10 Acquired: 1/12/2025 18:15:49 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038664	3.206435	F 22.34694	.0228557	.7499138	.0725889
Stddev	.0000554	.003495	.12353	.0006895	.0029796	.0016808
%RSD	1.432649	.1089892	.5527776	3.016949	.3973274	2.315554
#1	.0039271	3.210084	22.47527	.0229532	.7527615	.0745042
#2	.0038538	3.203118	22.22885	.0234913	.7501623	.0719036
#3	.0038185	3.206103	22.33669	.0221226	.7468178	.0713591

Elem	Sr4077
Units	ppm
Avg	.1683176
Stddev	.0011121
%RSD	.6607323
#1	.1695516
#2	.1680083
#3	.1673928

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3089.933	71050.16	10119.55	3388.118	3430.409
Stddev	3.409	718.95	33.50	45.583	7.684
%RSD	.1103371	1.011890	.3310667	1.345378	.2240008
#1	3087.064	70234.14	10094.26	3335.539	3422.414
#2	3089.035	71590.36	10157.54	3412.312	3431.073
#3	3093.702	71325.98	10106.83	3416.503	3437.739

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-11 Acquired: 1/12/2025 18:19:44 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0492069**	**-.001072**	**.2074428**	**.0180696**	**-.001124**	**38.26132**
Stddev	.0016942	.000942	.0011423	.0038327	.000523	.17463
%RSD	3.443074	87.86442	.5506477	21.21092	46.57248	.4564131
#1	.0474179	-.001813	.2081830	.0215300	-.000706	38.06219
#2	.0507870	-.001393	.2061273	.0187288	-.000955	38.38837
#3	.0494159	-.000012	.2080182	.0139500	-.001711	38.33341

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5457485**	**.0023613**	**.0046324**	**252.1821**	**.1163555**	**.0813072**
Stddev	.0020751	.0000314	.0000519	.9967	.0004161	.0001604
%RSD	.3802324	1.330533	1.121184	.3952415	.3575767	.1973225
#1	.5436652	.0023267	.0046532	251.1570	.1160484	.0812931
#2	.5478153	.0023882	.0046707	253.1478	.1161891	.0814742
#3	.5457651	.0023688	.0045732	252.2414	.1168290	.0811542

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2159509**	**101.1513**	**2.929911**	**62.95808**	**.1293270**	**-.009633**
Stddev	.0019473	.4594	.015275	.36318	.0005150	.000202
%RSD	.9017095	.4541312	.5213329	.5768526	.3982088	2.097798
#1	.2145065	100.6274	2.916465	62.60113	.1292498	-.009861
#2	.2181654	101.4851	2.946519	63.32717	.1298762	-.009560
#3	.2151808	101.3414	2.926750	62.94594	.1288549	-.009477

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.168532**	**.1046212**	**.5156945**	**4.454106**	**7.188230**	**.4344438**
Stddev	.223789	.0012694	.0017105	.106114	.015736	.0028001
%RSD	19.15130	1.213307	.3316854	2.382383	.2189084	.6445283
#1	1.372963	.1040280	.5170541	4.355905	7.170622	.4312673
#2	1.203201	.1060786	.5162554	4.566670	7.193150	.4365544
#3	.929431	.1037571	.5137740	4.439743	7.200918	.4355097

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-11 Acquired: 1/12/2025 18:19:44 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029617	8.271228	F 18.98440	.0079566	.9135112	.0664228
Stddev	.0002805	.026755	.07233	.0000967	.0020311	.0008636
%RSD	9.470421	.3234726	.3809727	1.215918	.2223418	1.300160
#1	.0031461	8.250509	19.00683	.0079321	.9135051	.0674002
#2	.0026389	8.261741	19.04285	.0078745	.9155454	.0657630
#3	.0031002	8.301433	18.90351	.0080633	.9114832	.0661052

Elem	Sr4077
Units	ppm
Avg	.2817204
Stddev	.0013186
%RSD	.4680437
#1	.2801994
#2	.2824206
#3	.2825412

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3025.158	70263.06	10145.56	3335.067	3282.812
Stddev	2.503	229.53	40.86	10.048	5.677
%RSD	.0827488	.3266761	.4027033	.3012850	.1729272
#1	3024.174	70473.50	10109.59	3336.207	3281.809
#2	3023.297	70018.30	10137.10	3324.497	3277.703
#3	3028.004	70297.37	10189.98	3344.496	3288.923

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-12 Acquired: 1/12/2025 18:23:42 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0678945	-.001709	2.281392	.0256581	.0041669	51.08142
Stddev	.0005009	.001442	.003534	.0035543	.0037353	.45398
%RSD	.7377031	84.40708	.1548950	13.85245	89.64221	.8887371
#1	.0674598	-.002478	2.279376	.0292111	.0051494	51.00687
#2	.0684422	-.002604	2.279328	.0256606	.0000385	51.56806
#3	.0677815	-.000045	2.285472	.0221025	.0073127	50.66933

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.359168	.0028011	.0167252	98.65929	.1435543	.0472831
Stddev	.008241	.0000399	.0000171	.68126	.0001222	.0003685
%RSD	.6063229	1.424656	.1023296	.6905136	.0850937	.7794011
#1	1.357987	.0027551	.0167202	98.49186	.1434499	.0472632
#2	1.367935	.0028251	.0167112	99.40865	.1435243	.0469250
#3	1.351580	.0028233	.0167443	98.07736	.1436886	.0476612

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3055388	114.9929	3.413288	36.51995	.1458936	-.008533
Stddev	.0032097	1.0170	.018424	.28887	.0004362	.000179
%RSD	1.050511	.8844153	.5397742	.7910021	.2989897	2.095485
#1	.3018330	114.6222	3.408450	36.44963	.1461762	-.008580
#2	.3074429	116.1433	3.433649	36.83749	.1453913	-.008335
#3	.3073406	114.2133	3.397766	36.27272	.1461134	-.008684

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8950600	.1254699	4.363510	5.637087	F 10.97344	.4993871
Stddev	.1049152	.0024182	.010406	.060121	.02625	.0053737
%RSD	11.72158	1.927274	.2384703	1.066524	.2392100	1.076062
#1	.9484801	.1262919	4.369615	5.637117	10.99209	.4985662
#2	.7741856	.1227479	4.369420	5.697192	10.94342	.5051240
#3	.9625142	.1273699	4.351495	5.576951	10.98481	.4944711

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-12 Acquired: 1/12/2025 18:23:42 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0067289	5.919628	F 22.40167	.0740085	.8537629	.0549598
Stddev	.0002409	.007344	.11222	.0006977	.0042323	.0003670
%RSD	3.579789	.1240683	.5009495	.9426874	.4957280	.6676611
#1	.0070031	5.926844	22.35349	.0744182	.8514442	.0546520
#2	.0065517	5.912162	22.32159	.0744042	.8511966	.0548615
#3	.0066317	5.919878	22.52994	.0732029	.8586479	.0553659

Elem	Sr4077
Units	ppm
Avg	.2292099
Stddev	.0023823
%RSD	1.039337
#1	.2287025
#2	.2318050
#3	.2271223

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2837.455	66914.75	9459.234	3155.898	3455.854
Stddev	6.914	224.90	53.679	22.113	3.701
%RSD	.2436565	.3361008	.5674721	.7006816	.1071081
#1	2845.333	66946.20	9477.527	3146.022	3456.742
#2	2832.398	66675.77	9501.375	3140.444	3459.031
#3	2834.634	67122.26	9398.800	3181.228	3451.789

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-13 Acquired: 1/12/2025 18:27:39 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0912771**	**-.003919**	**2.521246**	**.0428216**	**.0035945**	**69.14456**
Stddev	.0012331	.000673	.003109	.0018135	.0006009	.33248
%RSD	1.350886	17.17941	.1233286	4.234900	16.71724	.4808543
#1	.0900934	-.004010	2.524690	.0411181	.0041728	68.82108
#2	.0911837	-.003205	2.520404	.0426189	.0036372	69.48537
#3	.0925542	-.004542	2.518645	.0447279	.0029733	69.12722

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.905717**	**.0036729**	**.0157130**	**125.7372**	**.1773966**	**.0671495**
Stddev	.008931	.0000972	.0001468	.6122	.0002260	.0003839
%RSD	.4686241	2.646547	.9340141	.4869200	.1274133	.5717519
#1	1.902530	.0037790	.0158776	125.3569	.1775047	.0675892
#2	1.915803	.0035880	.0155958	126.4435	.1775483	.0668806
#3	1.898816	.0036519	.0156656	125.4113	.1771368	.0669787

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3562009**	**195.6268**	**5.875616**	**46.06000**	**.1755086**	**-.014812**
Stddev	.0014911	.9749	.028720	.18122	.0007908	.000346
%RSD	.4185979	.4983517	.4888012	.3934354	.4505746	2.337717
#1	.3563728	194.8727	5.866786	45.99632	.1764134	-.014671
#2	.3546313	196.7277	5.907715	46.26445	.1749497	-.014559
#3	.3575985	195.2801	5.852349	45.91921	.1751625	-.015207

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.027754**	**.1968098**	**3.655185**	**4.389995**	F **11.14692**	**.8292287**
Stddev	.058109	.0013380	.004207	.033200	.00205	.0057789
%RSD	5.653973	.6798346	.1150999	.7562624	.0183912	.6969066
#1	1.085583	.1955119	3.656994	4.351912	11.14767	.8254505
#2	.969369	.1967330	3.658186	4.405230	11.14460	.8358812
#3	1.028309	.1981845	3.650377	4.412844	11.14848	.8263543

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-13 Acquired: 1/12/2025 18:27:39 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0091425	5.621665	F 24.25625	.0857789	.9632954	.0702309
Stddev	.0003231	.017171	.04997	.0015064	.0015430	.0007706
%RSD	3.534082	.3054427	.2060261	1.756161	.1601839	1.097232
#1	.0090303	5.606672	24.31369	.0845881	.9625755	.0694729
#2	.0088904	5.640397	24.23227	.0874724	.9650668	.0710135
#3	.0095068	5.617925	24.22278	.0852762	.9622438	.0702063

Elem	Sr4077
Units	ppm
Avg	.2710072
Stddev	.0013450
%RSD	.4963035
#1	.2695766
#2	.2722460
#3	.2711991

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2900.618	67003.70	9780.164	3179.347	3463.483
Stddev	3.198	223.55	24.405	11.024	1.450
%RSD	.1102471	.3336435	.2495405	.3467495	.0418692
#1	2899.917	67115.94	9753.820	3189.194	3465.138
#2	2904.108	66746.27	9802.004	3167.437	3462.874
#3	2897.829	67148.90	9784.667	3181.410	3462.436

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-14 Acquired: 1/12/2025 18:31:33 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1274117**	**-.004227**	**3.946671**	**.0789578**	**.0055325**	**52.94733**
Stddev	.0030400	.002362	.014994	.0016111	.0012990	.18334
%RSD	2.385929	55.88364	.3799274	2.040514	23.48017	.3462637
#1	.1261075	-.003056	3.941151	.0773934	.0057742	53.13143
#2	.1308861	-.002679	3.963643	.0806119	.0041295	52.94580
#3	.1252414	-.006946	3.935219	.0788681	.0066936	52.76476

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.913811**	**.0025029**	**.0320383**	**146.5364**	**.2160939**	**.0694082**
Stddev	.005128	.0000293	.0000986	.3595	.0009235	.0004480
%RSD	.1759726	1.170720	.3078882	.2452977	.4273435	.6454458
#1	2.918410	.0025285	.0320862	146.9514	.2171546	.0688913
#2	2.908282	.0024710	.0321038	146.3329	.2156582	.0696831
#3	2.914740	.0025093	.0319248	146.3248	.2154688	.0696502

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5252175**	**404.1007**	**5.355818**	**53.13428**	**.2189077**	**-.037114**
Stddev	.0027155	.3632	.008478	.13168	.0011555	.000221
%RSD	.5170280	.0898674	.1582984	.2478335	.5278373	.5964480
#1	.5279306	403.7025	5.360590	53.28491	.2180248	-.037343
#2	.5224996	404.4137	5.346029	53.07696	.2202155	-.036901
#3	.5252224	404.1859	5.360834	53.04096	.2184828	-.037098

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.376043**	**.1373333**	**5.861122**	**3.680855**	F **11.77572**	**1.663783**
Stddev	.183627	.0020056	.005730	.020479	.04853	.001862
%RSD	13.34454	1.460415	.0977564	.5563539	.4120777	.1119370
#1	1.269508	.1360911	5.859104	3.685665	11.72219	1.665267
#2	1.270545	.1396472	5.856674	3.658400	11.81681	1.664388
#3	1.588076	.1362617	5.867588	3.698500	11.78817	1.661693

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-14 Acquired: 1/12/2025 18:31:33 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0115396	5.885429	F 23.90905	.1336183	.8523177	.0699764
Stddev	.0001549	.018558	.06219	.0015022	.0022374	.0015507
%RSD	1.342369	.3153294	.2601087	1.124220	.2625083	2.216049
#1	.0116244	5.866906	23.86575	.1339387	.8498075	.0697232
#2	.0113608	5.904023	23.88108	.1349344	.8530433	.0716381
#3	.0116336	5.885358	23.98031	.1319817	.8541022	.0685678

Elem	Sr4077
Units	ppm
Avg	.3293284
Stddev	.0020543
%RSD	.6237777
#1	.3314715
#2	.3291376
#3	.3273762

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2772.712	66389.36	9496.507	3114.105	3350.421
Stddev	6.996	92.45	38.386	5.437	15.522
%RSD	.2523035	.1392558	.4042079	.1745964	.4632881
#1	2778.832	66356.54	9528.305	3120.293	3363.451
#2	2765.086	66493.74	9507.350	3111.933	3333.248
#3	2774.219	66317.80	9453.866	3110.090	3354.564

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-15 Acquired: 1/12/2025 18:35:35 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1405266	-.002399	5.732639	.0340091	.0160638	50.03617
Stddev	.0012845	.000913	.045654	.0020790	.0004311	.25885
%RSD	.9140782	38.05419	.7963800	6.113114	2.683806	.5173280
#1	.1396925	-.001662	5.691593	.0356316	.0155697	49.84279
#2	.1420058	-.002114	5.781809	.0347301	.0163636	49.93548
#3	.1398814	-.003420	5.724513	.0316655	.0162580	50.33024

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.962813	.0050093	.0221113	89.94323	.2018504	.0760856
Stddev	.004786	.0001718	.0000990	.12133	.0006737	.0007060
%RSD	.1615384	3.430210	.4478986	.1348961	.3337619	.9279657
#1	2.967248	.0050689	.0221133	89.86668	.2013828	.0754115
#2	2.957740	.0048156	.0222093	89.87989	.2026226	.0768198
#3	2.963452	.0051434	.0220113	90.08312	.2015458	.0760256

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7199393	166.9214	6.248574	22.34576	.1885668	-.011613
Stddev	.0105117	.7457	.015616	.05448	.0015438	.000365
%RSD	1.460074	.4467247	.2499145	.2438081	.8186958	3.145026
#1	.7231863	166.3164	6.263029	22.32063	.1877417	-.012034
#2	.7081873	166.6933	6.232011	22.30839	.1903478	-.011380
#3	.7284444	167.7545	6.250681	22.40827	.1876109	-.011424

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.706566	.1539622	5.364926	4.379391	F 14.49209	.7138153
Stddev	.079284	.0009097	.018928	.033272	.11580	.0023824
%RSD	4.645850	.5908618	.3528177	.7597456	.7990660	.3337519
#1	1.757563	.1540335	5.350734	4.342617	14.39324	.7115207
#2	1.746912	.1530189	5.357626	4.388148	14.61950	.7136487
#3	1.615223	.1548342	5.386417	4.407410	14.46353	.7162767

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-15 Acquired: 1/12/2025 18:35:35 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0105364	3.590218	F 21.86253	.3037476	.8670286	.0761192
Stddev	.0002534	.032916	.34499	.0021288	.0152674	.0002869
%RSD	2.404962	.9168358	1.578010	.7008382	1.760893	.3768804
#1	.0104251	3.556433	22.14073	.3031972	.8787278	.0760888
#2	.0103578	3.622191	21.47650	.3060975	.8497579	.0764200
#3	.0108264	3.592031	21.97035	.3019480	.8726001	.0758487

Elem	Sr4077
Units	ppm
Avg	.4236457
Stddev	.0030662
%RSD	.7237623
#1	.4208467
#2	.4231675
#3	.4269229

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2982.215	70559.05	9944.082	3338.964	3402.548
Stddev	14.768	41.89	132.702	10.621	23.014
%RSD	.4951988	.0593678	1.334483	.3180994	.6763704
#1	2992.149	70581.53	9832.433	3345.817	3418.632
#2	2965.245	70510.72	10090.80	3344.346	3376.186
#3	2989.251	70584.89	9909.02	3326.729	3412.826

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-16 Acquired: 1/12/2025 18:39:29 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0434585**	**-.007954**	**.3215607**	**.0145628**	**-.001497**	**52.25783**
Stddev	.0015657	.001353	.0024564	.0020578	.001230	.25259
%RSD	3.602645	17.00540	.7638885	14.13049	82.17122	.4833468
#1	.0416569	-.008678	.3206592	.0127442	-.001930	51.97343
#2	.0444898	-.008790	.3196824	.0141477	-.000109	52.45603
#3	.0442288	-.006393	.3243404	.0167965	-.002454	52.34404

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6832576**	**.0040050**	**.0055433**	**638.7595**	**.1093102**	**.0840050**
Stddev	.0027335	.0000730	.0000797	1.9993	.0001960	.0001972
%RSD	.4000691	1.823656	1.438245	.3129994	.1792770	.2347102
#1	.6801758	.0040029	.0056113	636.6941	.1092465	.0841601
#2	.6853892	.0040790	.0054556	640.6854	.1091540	.0840717
#3	.6842079	.0039330	.0055629	638.8992	.1095301	.0837831

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2243527**	**127.0906**	**13.13629**	**128.4466**	**.1513694**	**-.012056**
Stddev	.0012055	.4910	.02787	.5252	.0001742	.000351
%RSD	.5373295	.3863183	.2121615	.4089113	.1150539	2.913508
#1	.2230325	126.5558	13.10608	127.8537	.1511706	-.012248
#2	.2246308	127.5209	13.16100	128.8538	.1514949	-.012269
#3	.2253949	127.1950	13.14178	128.6322	.1514427	-.011650

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.385982**	**.1391096**	**.5363407**	**8.245992**	**6.727538**	**.5469213**
Stddev	.232658	.0006013	.0012804	.025129	.011030	.0035391
%RSD	16.78648	.4322497	.2387329	.3047454	.1639585	.6470946
#1	1.524167	.1387374	.5362458	8.229972	6.732043	.5432050
#2	1.516410	.1387879	.5376659	8.274954	6.714969	.5502516
#3	1.117370	.1398033	.5351104	8.233048	6.735603	.5473073

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-16 Acquired: 1/12/2025 18:39:29 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038797	1.021884	F 21.18550	.0034139	1.187678	.0998456
Stddev	.0003613	.004510	.09407	.0015620	.002833	.0003483
%RSD	9.313614	.4413385	.4440231	45.75410	.2385345	.3488414
#1	.0037492	1.025377	21.23327	.0016217	1.190630	.0999508
#2	.0036018	1.023483	21.07713	.0041348	1.184981	.0994568
#3	.0042882	1.016792	21.24610	.0044853	1.187425	.1001292

Elem	Sr4077
Units	ppm
Avg	.5403456
Stddev	.0027456
%RSD	.5081149
#1	.5373384
#2	.5427184
#3	.5409800

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2813.416	67109.04	9669.613	3165.168	2980.819
Stddev	4.052	131.98	33.814	9.746	1.840
%RSD	.1440082	.1966713	.3496934	.3079276	.0617276
#1	2809.392	67235.12	9636.395	3174.610	2979.823
#2	2813.360	66971.85	9703.993	3155.143	2982.943
#3	2817.495	67120.16	9668.449	3165.753	2979.692

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-20 Acquired: 1/12/2025 18:43:36 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0603406	-.010093	.1365869	.0196678	-.000202	48.70553
Stddev	.0015583	.002757	.0015263	.0016639	.000313	.39836
%RSD	2.582511	27.31438	1.117480	8.460038	155.0352	.8178955
#1	.0600883	-.011501	.1377590	.0215021	-.000155	49.16524
#2	.0589239	-.011861	.1371407	.0192458	-.000535	48.48934
#3	.0620097	-.006916	.1348610	.0182555	.000085	48.46200

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8500614	.0040179	.0062474	711.3941	.1141970	.0753171
Stddev	.0070254	.0000688	.0001014	4.8855	.0003999	.0004777
%RSD	.8264622	1.711182	1.622466	.6867554	.3501647	.6342604
#1	.8577394	.0040002	.0061328	713.8496	.1143265	.0757482
#2	.8484902	.0039598	.0063251	714.5648	.1145160	.0753996
#3	.8439545	.0040938	.0062844	705.7679	.1137484	.0748035

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2255044	149.9984	15.17645	109.2207	.1446571	-.012944
Stddev	.0032517	1.0715	.11282	.6172	.0004438	.000411
%RSD	1.441976	.7143706	.7434127	.5650748	.3068073	3.174655
#1	.2279897	151.2351	15.29424	109.9245	.1444195	-.012495
#2	.2218243	149.4123	15.16576	108.9657	.1443826	-.013300
#3	.2266991	149.3477	15.06936	108.7719	.1451691	-.013038

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.244465	.1255703	.5593411	8.429532	5.175384	.6504073
Stddev	.297881	.0015497	.0014435	.132333	.024752	.0060401
%RSD	23.93650	1.234114	.2580747	1.569876	.4782619	.9286641
#1	1.118343	.1248368	.5605891	8.554888	5.203720	.6572722
#2	1.030391	.1273506	.5577602	8.291181	5.157980	.6480417
#3	1.584659	.1245237	.5596738	8.442527	5.164451	.6459081

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-20 Acquired: 1/12/2025 18:43:36 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043531	1.128751	F 22.15965	.0016970	.6419750	.0920098
Stddev	.0001438	.006788	.07926	.0020010	.0020113	.0013482
%RSD	3.303330	.6014024	.3576917	117.9167	.3133050	1.465307
#1	.0043056	1.134187	22.08703	.0022984	.6410962	.0934515
#2	.0045147	1.121142	22.24420	.0033283	.6442762	.0907801
#3	.0042391	1.130926	22.14772	-.000536	.6405527	.0917979

Elem	Sr4077
Units	ppm
Avg	.6708219
Stddev	.0063029
%RSD	.9395819
#1	.6780786
#2	.6667126
#3	.6676743

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2767.956	65312.27	9642.380	3108.812	2957.439
Stddev	4.097	237.48	60.641	6.268	7.347
%RSD	.1480101	.3636102	.6288960	.2016326	.2484085
#1	2764.533	65055.70	9707.560	3103.767	2949.195
#2	2772.495	65356.73	9587.632	3115.829	2963.291
#3	2766.840	65524.38	9631.949	3106.838	2959.833

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-21 Acquired: 1/12/2025 18:47:42 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1322473**	**-.009169**	**.4379246**	**.0423784**	**-.004271**	**71.25182**
Stddev	.0018911	.001583	.0013744	.0034492	.002208	.47248
%RSD	1.429993	17.26426	.3138426	8.139057	51.70910	.6631150
#1	.1305715	-.008620	.4363959	.0435089	-.004418	71.79541
#2	.1342977	-.010954	.4390583	.0451206	-.006401	70.93979
#3	.1318728	-.007934	.4383194	.0385059	-.001992	71.02025

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.581754**	**.0058228**	**.0128762**	**42.15600**	**.1314760**	**.1395033**
Stddev	.016427	.0000070	.0000927	.35445	.0002143	.0008651
%RSD	1.038499	.1207795	.7201737	.8408042	.1630211	.6201238
#1	1.600546	.0058259	.0127723	42.56381	.1312582	.1399690
#2	1.574594	.0058278	.0129506	41.92208	.1314832	.1400359
#3	1.570123	.0058148	.0129057	41.98210	.1316866	.1385052

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2403226**	**207.9538**	**14.51848**	**20.01441**	**.1990458**	**-.014330**
Stddev	.0013282	1.4257	.12887	.15792	.0011280	.000538
%RSD	.5526861	.6855906	.8876446	.7890488	.5666864	3.754843
#1	.2402774	209.5894	14.66720	20.19489	.1993282	-.013722
#2	.2416728	206.9740	14.43967	19.90154	.2000057	-.014524
#3	.2390175	207.2980	14.44856	19.94681	.1978034	-.014745

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9322488**	**.1649568**	**1.519616**	**5.510201**	**7.949710**	**.8595997**
Stddev	.0522535	.0025255	.003612	.048019	.014079	.0084580
%RSD	5.605103	1.531011	.2377172	.8714538	.1770975	.9839524
#1	.8782096	.1658304	1.515474	5.565388	7.960741	.8693410
#2	.9825117	.1621104	1.521260	5.487260	7.954538	.8541206
#3	.9360250	.1669295	1.522114	5.477956	7.933853	.8553377

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-21 Acquired: 1/12/2025 18:47:42 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038988	1.731697	F 22.40177	.0206961	.7264532	.0768833
Stddev	.0001050	.008157	.05237	.0003245	.0019891	.0009060
%RSD	2.692823	.4710324	.2337627	1.568136	.2738115	1.178374
#1	.0038457	1.739958	22.45868	.0203292	.7287033	.0779031
#2	.0038310	1.731483	22.39101	.0209456	.7257277	.0765756
#3	.0040197	1.723649	22.35562	.0208135	.7249287	.0761713

Elem	Sr4077
Units	ppm
Avg	.1470165
Stddev	.0008449
%RSD	.5747198
#1	.1479921
#2	.1465290
#3	.1465283

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3449.085	80499.70	11357.52	3840.063	3477.585
Stddev	8.354	232.50	48.97	5.822	8.828
%RSD	.2422207	.2888222	.4311312	.1516080	.2538446
#1	3450.510	80280.25	11406.11	3842.267	3475.658
#2	3440.110	80743.36	11358.27	3844.461	3469.881
#3	3456.636	80475.49	11308.18	3833.461	3487.217

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV011 Acquired: 1/12/2025 18:51:37 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV011 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.671328**	**4.508012**	**22.92716**	**4.690383**	**4.645953**	**362.2799**
Stddev	.005835	.029718	.02626	.014143	.001904	2.1348
%RSD	.1249092	.6592363	.1145244	.3015352	.0409768	.5892754
#1	4.672353	4.520734	22.90035	4.702804	4.644460	361.0041
#2	4.665048	4.474051	22.92831	4.674990	4.645303	364.7445
#3	4.676581	4.529253	22.95283	4.693355	4.648097	361.0911

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.339766**	**.5258261**	**2.591379**	**365.0037**	**14.72878**	**2.324038**
Stddev	.073469	.0008836	.002727	4.3446	.04017	.002766
%RSD	.7866273	.1680357	.1052399	1.190288	.2727349	.1190239
#1	9.423656	.5259778	2.590130	366.5625	14.72599	2.321766
#2	9.286883	.5266240	2.589499	368.3538	14.77027	2.323230
#3	9.308760	.5248765	2.594506	360.0947	14.69008	2.327119

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.97000**	**366.3877**	**13.87769**	**230.6436**	**2.318950**	**1.314839**
Stddev	.04000	1.2352	.05878	.9791	.000640	.002251
%RSD	.2863414	.3371305	.4235699	.4245267	.0275988	.1711754
#1	13.92856	365.7377	13.87240	229.9081	2.318334	1.312632
#2	14.00839	367.8121	13.93894	231.7550	2.319611	1.317131
#3	13.97304	365.6131	13.82174	230.2676	2.318906	1.314754

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**365.6051**	**2.276920**	**14.89004**	**136.9998**	**4.562735**	F **5.620782**
Stddev	.5696	.002462	.04152	.3789	.012505	.012015
%RSD	.1558099	.1081160	.2788585	.2766049	.2740732	.2137575
#1	365.2682	2.277336	14.91654	136.7858	4.559272	5.613951
#2	366.2628	2.279147	14.84219	137.4374	4.552326	5.634655
#3	365.2843	2.274277	14.91140	136.7764	4.576607	5.613741

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV011 Acquired: 1/12/2025 18:51:37 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV011 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 4.392978	4.562478	4.574124	4.560187	4.553971	F 4.139289
Stddev	.006442	.009959	.017102	.002307	.007080	.010171
%RSD	.1466379	.2182845	.3738819	.0505887	.1554701	.2457253
#1	4.390168	4.563303	4.587638	4.558552	4.552441	4.138389
#2	4.388418	4.552132	4.579837	4.562826	4.561692	4.149880
#3	4.400347	4.571999	4.554897	4.559183	4.547782	4.129597

Elem	Sr4077
Units	ppm
Avg	4.748569
Stddev	.037648
%RSD	.7928318
#1	4.787699
#2	4.712602
#3	4.745407

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2152.574	52452.25	7985.774	2490.392	2884.709
Stddev	3.211	112.92	17.781	13.814	4.236
%RSD	.1491862	.2152803	.2226563	.5547090	.1468579
#1	2154.850	52414.95	7971.881	2479.328	2888.977
#2	2153.972	52362.70	7979.629	2505.875	2884.645
#3	2148.901	52579.10	8005.812	2485.972	2880.504

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB011 Acquired: 1/12/2025 18:55:56 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB011 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000614**	**.0003645**	**.0004286**	**.0022550**	**.0006301**	**.0009700**	**-.005356**
Stddev	.000521	.0009303	.0008121	.0033134	.0006336	.0007302	.000902
%RSD	84.82408	255.2250	189.4489	146.9364	100.5649	75.28430	16.83423
#1	-.000284	.0001789	.0013562	-.000161	-.000101	.0018073	-.004434
#2	-.000344	.0013736	.0000839	.000894	.000968	.0006370	-.005398
#3	-.001214	-.000459	-.000154	.006032	.001023	.0004655	-.006236

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000053**	**.0000723**	**.0291987**	**.0006447**	**.0000400**	**.0005817**	**.0261216**
Stddev	.000052	.0000230	.0032277	.0001083	.0001285	.0013294	.0009166
%RSD	99.10222	31.82095	11.05421	16.79241	321.5771	228.5466	3.509107
#1	-.000100	.0000923	.0275588	.0006391	-.000099	.0002320	.0268863
#2	-.000061	.0000774	.0271202	.0005393	.000063	.0020509	.0251055
#3	.000003	.0000472	.0329171	.0007556	.000155	-.000538	.0263729

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007289**	**.0176944**	**.0001562**	**.0002557**	**.0349951**	**-.002499**	**.0003895**
Stddev	.0000983	.0057413	.0000515	.0001235	.2459725	.001299	.0002678
%RSD	13.48890	32.44728	32.95850	48.27815	702.8777	52.00272	68.75914
#1	.0008005	.0242701	.0002155	.0003261	-.090145	-.003911	.0002316
#2	.0007693	.0136763	.0001298	.0001132	.318376	-.001354	.0002381
#3	.0006168	.0151368	.0001232	.0003279	-.123246	-.002231	.0006986

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003611**	**-.001901**	**.0012064**	**.0002862**	**-.001341**	**.0101609**	**.0002836**
Stddev	.051832	.000075	.0004855	.0002992	.000673	.0077318	.0003982
%RSD	1435.321	3.952560	40.24389	104.5472	50.22035	76.09397	140.4075
#1	-.033389	-.001885	.0017047	.0006008	-.000702	.0092145	-.000130
#2	-.033684	-.001983	.0011795	.0000051	-.001276	.0183224	.000664
#3	.056239	-.001835	.0007349	.0002527	-.002044	.0029458	.000317

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB011 Acquired: 1/12/2025 18:55:56 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB011 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0003974	-.002175	.0000715
Stddev	.0004928	.000608	.0000861
%RSD	124.0158	27.97995	120.4617
#1	.0009136	-.001725	.0000864
#2	.0003465	-.001932	.0001492
#3	-.000068	-.002867	-.000021

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2671.185	62465.43	8406.812	2973.936	3768.526
Stddev	22.882	53.05	57.022	6.087	36.390
%RSD	.8566255	.0849191	.6782883	.2046764	.9656413
#1	2652.352	62504.45	8353.328	2971.829	3739.504
#2	2664.553	62405.03	8466.813	2969.182	3756.720
#3	2696.651	62486.81	8400.295	2980.796	3809.353

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-22 Acquired: 1/12/2025 19:00:06 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNM0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0701616**	**-.005619**	**.3567141**	**.0238990**	**-.003244**	**59.02167**
Stddev	.0001825	.001316	.0029636	.0028231	.000811	.57839
%RSD	.2601116	23.41593	.8308066	11.81263	24.99358	.9799584
#1	.0702969	-.006305	.3593716	.0216310	-.002332	59.46033
#2	.0702338	-.004102	.3572526	.0270608	-.003519	59.23848
#3	.0699540	-.006450	.3535182	.0230052	-.003882	58.36620

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.432664**	**.0063119**	**.0106355**	**34.88874**	**.1289988**	**.0792286**
Stddev	.012540	.0001150	.0000226	.29782	.0001587	.0012053
%RSD	.8752883	1.822328	.2127844	.8536221	.1229911	1.521283
#1	1.442704	.0061921	.0106139	35.13560	.1288167	.0802866
#2	1.436681	.0063222	.0106590	34.97265	.1290725	.0794828
#3	1.418608	.0064215	.0106335	34.55797	.1291072	.0779165

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1681193**	**127.2919**	**18.14727**	**17.39685**	**.1738747**	**-.008341**
Stddev	.0018977	1.2621	.16148	.15326	.0013468	.000250
%RSD	1.128765	.9914816	.8898342	.8809776	.7745899	2.992698
#1	.1664799	128.2571	18.27552	17.51044	.1747419	-.008084
#2	.1676798	127.7548	18.20037	17.45757	.1745592	-.008357
#3	.1701982	125.8637	17.96593	17.22253	.1723231	-.008583

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6550780**	**.1458240**	**.6951233**	**5.142562**	**8.736523**	**.5354243**
Stddev	.0207639	.0008455	.0021801	.047301	.052689	.0066022
%RSD	3.169676	.5797887	.3136245	.9197913	.6030891	1.233074
#1	.6586452	.1465435	.6942299	5.185683	8.763961	.5408846
#2	.6327617	.1460356	.6976082	5.150033	8.769831	.5373016
#3	.6738272	.1448928	.6935319	5.091970	8.675778	.5280868

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-22 Acquired: 1/12/2025 19:00:06 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNM0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0078626	2.302901	F 23.61430	.0146771	.6378164	.0816257
Stddev	.0002075	.026911	.07862	.0003109	.0009450	.0007736
%RSD	2.638803	1.168577	.3329334	2.118324	.1481548	.9477747
#1	.0079333	2.322391	23.69367	.0148950	.6377481	.0823998
#2	.0080255	2.314115	23.53645	.0143211	.6387937	.0816247
#3	.0076290	2.272196	23.61278	.0148154	.6369075	.0808526

Elem	Sr4077
Units	ppm
Avg	.1530195
Stddev	.0018630
%RSD	1.217507
#1	.1542459
#2	.1539368
#3	.1508757

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3370.282	82040.25	11037.51	3858.404	3500.612
Stddev	21.203	344.15	35.05	16.733	23.889
%RSD	.6291074	.4194912	.3175200	.4336775	.6824348
#1	3358.249	81782.35	11054.04	3850.490	3483.853
#2	3357.833	81907.38	11061.23	3847.096	3490.016
#3	3394.763	82431.03	10997.25	3877.626	3527.967

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-23 Acquired: 1/12/2025 19:04:12 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN18 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1354548**	**-.024015**	**.8409573**	**.0354246**	**-.004863**	**57.61523**
Stddev	.0004497	.001332	.0043770	.0011557	.001483	.25259
%RSD	.3319824	5.544996	.5204761	3.262518	30.48737	.4384079
#1	.1354156	-.022501	.8459198	.0340901	-.004403	57.33505
#2	.1350260	-.024539	.8393054	.0360876	-.003666	57.82549
#3	.1359228	-.025005	.8376466	.0360962	-.006522	57.68517

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.275779**	**.0078422**	**.0173159**	**88.50253**	**.1341469**	**.1581278**
Stddev	.021735	.0000683	.0003612	.41074	.0004059	.0011541
%RSD	.6634943	.8713614	2.085903	.4640990	.3025553	.7298533
#1	3.253850	.0077831	.0177167	88.03848	.1336911	.1594603
#2	3.297314	.0079170	.0172157	88.81943	.1344692	.1574835
#3	3.276174	.0078265	.0170155	88.64968	.1342805	.1574398

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3487571**	**187.5696**	F **53.98705**	**31.13796**	**.2300345**	**-.009581**
Stddev	.0012568	.8829	.42391	.15679	.0006647	.000106
%RSD	.3603760	.4707167	.7852005	.5035437	.2889593	1.105364
#1	.3500035	186.5516	54.47527	30.96134	.2307785	-.009665
#2	.3474901	188.1266	53.77336	31.19181	.2294990	-.009462
#3	.3487776	188.0306	53.71251	31.26074	.2298261	-.009616

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.006727**	**.1461454**	**2.043630**	**5.223699**	F **10.84752**	**.7737710**
Stddev	.174416	.0014634	.005422	.018627	.05886	.0044467
%RSD	17.32511	1.001301	.2653276	.3565872	.5426329	.5746786
#1	1.144119	.1477530	2.049175	5.223460	10.91468	.7686724
#2	.810501	.1457923	2.038339	5.242445	10.82301	.7768460
#3	1.065559	.1448909	2.043375	5.205193	10.80487	.7757947

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-23 Acquired: 1/12/2025 19:04:12 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN18 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0203883	1.392949	F 22.62990	.0401342	.7694790	.0969551
Stddev	.0004304	.007925	.03175	.0009228	.0002739	.0004785
%RSD	2.110964	.5689230	.1402812	2.299314	.0355976	.4935459
#1	.0204931	1.400598	22.66504	.0391578	.7691627	.0969110
#2	.0199151	1.393475	22.62135	.0409920	.7696366	.0974542
#3	.0207565	1.384774	22.60330	.0402529	.7696377	.0965002

Elem	Sr4077
Units	ppm
Avg	.2137722
Stddev	.0010913
%RSD	.5105164
#1	.2125184
#2	.2145087
#3	.2142896

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3347.603	78946.70	10895.97	3698.700	3409.726
Stddev	8.724	109.78	67.83	13.975	12.295
%RSD	.2605953	.1390611	.6224836	.3778477	.3605963
#1	3338.263	78884.61	10825.70	3682.800	3395.550
#2	3355.541	79073.46	10961.05	3709.039	3417.497
#3	3349.004	78882.04	10901.16	3704.260	3416.129

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-07DLX2 Acquired: 1/12/2025 19:08:14 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMZ8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0298532	-.003842	.1140765	.0034204	-.001964	22.50254
Stddev	.0008233	.002055	.0007678	.0010473	.000895	.10740
%RSD	2.757843	53.48326	.6730252	30.61793	45.57629	.4772796
#1	.0305378	-.002546	.1133245	.0022497	-.002972	22.44280
#2	.0289396	-.002769	.1140458	.0037435	-.001260	22.62653
#3	.0300820	-.006211	.1148591	.0042680	-.001662	22.43829

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1906033	.0019950	.0025026	600.2869	.0376914	.0320170
Stddev	.0017538	.0000789	.0001092	3.2113	.0003046	.0002718
%RSD	.9201533	3.955559	4.363460	.5349595	.8081837	.8489123
#1	.1909013	.0019872	.0024507	603.9712	.0373707	.0321198
#2	.1921890	.0020775	.0024291	598.8078	.0377268	.0317088
#3	.1887195	.0019203	.0026281	598.0817	.0379768	.0322225

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1685600	60.60018	5.225527	78.06114	.0665270	-.005469
Stddev	.0010194	.29851	.032957	.44649	.0004054	.000141
%RSD	.6047649	.4925923	.6306828	.5719762	.6094132	2.570045
#1	.1693874	60.40288	5.220642	77.75143	.0663828	-.005624
#2	.1688714	60.94361	5.260654	78.57294	.0662133	-.005350
#3	.1674212	60.45406	5.195286	77.85904	.0669847	-.005433

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8162441	.0479931	.2647920	3.142448	F 14.81767	.2700340
Stddev	.2140389	.0011422	.0021644	.025567	.00789	.0023681
%RSD	26.22241	2.379884	.8173887	.8136049	.0532486	.8769453
#1	.7522896	.0467626	.2626382	3.112935	14.82433	.2688871
#2	1.054970	.0481973	.2647710	3.157873	14.81973	.2727572
#3	.641473	.0490194	.2669668	3.156535	14.80896	.2684578

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-07DLX2 Acquired: 1/12/2025 19:08:14 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMZ8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015774	.7942965	3.148138	.0012785	.2302993	.0484923
Stddev	.0002061	.0029495	.012251	.0009269	.0011289	.0017917
%RSD	13.06801	.3713280	.3891456	72.49818	.4902019	3.694775
#1	.0015051	.7916888	3.153831	.0002492	.2311935	.0465514
#2	.0018099	.7974974	3.156507	.0020471	.2306736	.0500830
#3	.0014171	.7937032	3.134077	.0015392	.2290307	.0488427

Elem	Sr4077
Units	ppm
Avg	.5095682
Stddev	.0029482
%RSD	.5785683
#1	.5070677
#2	.5128191
#3	.5088179

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2853.459	66173.28	9709.561	3155.949	3051.187
Stddev	5.890	96.75	27.666	7.590	2.770
%RSD	.2064213	.1462087	.2849371	.2404848	.0907864
#1	2846.759	66251.80	9698.400	3164.697	3050.009
#2	2857.820	66065.20	9741.064	3151.129	3054.352
#3	2855.798	66202.83	9689.219	3152.021	3049.201

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-01DLX5 Acquired: 1/12/2025 19:12:24 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN53 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0203530	-.000320	.0256782	.0014673	-.000597	3.975306	.1349581
Stddev	.0013950	.000750	.0026714	.0029865	.002401	.033522	.0007346
%RSD	6.853837	233.9948	10.40342	203.5455	402.1787	.8432458	.5443511
#1	.0203835	.000223	.0226197	.0043238	-.003322	3.940334	.1346602
#2	.0189431	-.000008	.0275548	-.001634	.000324	4.007159	.1357948
#3	.0217325	-.001176	.0268600	.001712	.001207	3.978427	.1344191

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006809	.0004097	377.3413	.0100104	.0070567	.0318348	20.65108
Stddev	.0000760	.0000566	2.0435	.0003692	.0005257	.0028743	.07774
%RSD	11.15461	13.81667	.5415534	3.687848	7.448922	9.028706	.3764523
#1	.0007596	.0003495	378.1027	.0104311	.0076549	.0331733	20.69770
#2	.0006752	.0004177	378.8949	.0097406	.0066687	.0337958	20.69420
#3	.0006080	.0004618	375.0265	.0098596	.0068465	.0285354	20.56133

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.968342	171.9243	.0152782	-.001857	.4208515	.0179208	.0606105
Stddev	.011796	.5358	.0003674	.000303	.0704790	.0027132	.0005364
%RSD	.5992999	.3116547	2.404729	16.31584	16.74676	15.14015	.8850235
#1	1.973837	172.2152	.0150781	-.001710	.3563811	.0205916	.0608840
#2	1.976389	172.2518	.0157022	-.001654	.4100756	.0151670	.0599925
#3	1.954801	171.3060	.0150543	-.002205	.4960979	.0180037	.0609550

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4619339	.6755173	.0883970	.0036332	.6141842	1.755811	-.003495
Stddev	.0418052	.0020013	.0001905	.0004523	.0058002	.034227	.001016
%RSD	9.050030	.2962677	.2154591	12.44849	.9443725	1.949373	29.06370
#1	.5097212	.6749535	.0882416	.0041482	.6203527	1.768829	-.002803
#2	.4439522	.6738584	.0883399	.0034510	.6133594	1.781620	-.003021
#3	.4321283	.6777401	.0886095	.0033005	.6088406	1.716985	-.004661

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-01DLX5 Acquired: 1/12/2025 19:12:24 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN53 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0643326	.0135343	.2897374
Stddev	.0019781	.0008138	.0010809
%RSD	3.074785	6.012652	.3730644
#1	.0656662	.0143470	.2898551
#2	.0652716	.0135363	.2907546
#3	.0620599	.0127195	.2886025

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2455.349	57274.89	8225.470	2710.667	3117.835
Stddev	3.531	235.49	101.728	12.278	6.589
%RSD	.1438073	.4111533	1.236739	.4529618	.2113344
#1	2451.816	57099.52	8149.755	2718.963	3110.356
#2	2458.878	57182.61	8185.552	2696.562	3120.361
#3	2455.355	57542.54	8341.102	2716.475	3122.787

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-10DLX2 Acquired: 1/12/2025 19:16:38 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN88 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0314037	-.001827	.1407652	.0062060	.0007045	19.04433	.1487248
Stddev	.0032644	.001232	.0013112	.0022673	.0010091	.04339	.0003966
%RSD	10.39509	67.43264	.9314787	36.53437	143.2465	.2278168	.2666512
#1	.0350862	-.000450	.1408476	.0073760	-.000430	19.08396	.1489528
#2	.0302595	-.002207	.1420333	.0035927	.001503	18.99798	.1482669
#3	.0288653	-.002825	.1394148	.0076493	.001040	19.05106	.1489548

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014395	.0027547	474.2955	.0426952	.0326685	.1607388	61.25252
Stddev	.0000309	.0000625	.9841	.0001447	.0001984	.0018356	.06630
%RSD	2.148905	2.269396	.2074866	.3389608	.6074258	1.141975	.1082388
#1	.0014460	.0026826	473.2868	.0426325	.0324424	.1621573	61.27587
#2	.0014058	.0027946	474.3469	.0428608	.0327497	.1586656	61.17771
#3	.0014666	.0027868	475.2529	.0425925	.0328135	.1613936	61.30400

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.711778	124.0421	.0616398	-.005351	.7048481	.0449620	.3937853
Stddev	.009029	.1993	.0005780	.000266	.2338105	.0012203	.0007573
%RSD	.2432608	.1606909	.9377878	4.980353	33.17176	2.714009	.1923040
#1	3.716029	124.2703	.0610148	-.005611	.9373082	.0454878	.3943325
#2	3.701408	123.9535	.0617493	-.005078	.7075257	.0435670	.3929211
#3	3.717897	123.9024	.0621552	-.005362	.4697102	.0458313	.3941025

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.579422	4.145460	.2694166	.0027543	.6583415	6.448192	.0059718
Stddev	.056848	.032841	.0004010	.0001290	.0035753	.015927	.0017548
%RSD	1.588194	.7922158	.1488333	4.685580	.5430821	.2469973	29.38518
#1	3.607216	4.107597	.2697729	.0026096	.6577143	6.449467	.0079403
#2	3.514024	4.166228	.2694946	.0028575	.6621890	6.431665	.0045714
#3	3.617025	4.162553	.2689824	.0027957	.6551213	6.463442	.0054037

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-10DLX2 Acquired: 1/12/2025 19:16:38 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN88 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2273369	.0438963	.2956948
Stddev	.0007277	.0020439	.0007755
%RSD	.3201216	4.656236	.2622769
#1	.2281771	.0461082	.2958443
#2	.2269023	.0435031	.2948554
#3	.2269314	.0420775	.2963848

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2651.029	62150.26	8948.287	2950.292	3129.064
Stddev	27.366	99.80	17.027	6.899	33.347
%RSD	1.032285	.1605849	.1902845	.2338399	1.065720
#1	2682.369	62041.86	8932.472	2942.375	3166.994
#2	2638.862	62170.57	8966.311	2955.017	3115.846
#3	2631.856	62238.34	8946.080	2953.483	3104.352

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-20DLX2 Acquired: 1/12/2025 19:20:47 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMS7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0163070**	**-.001707**	**.0392384**	**-.004989**	**.0013717**	**11.85122**
Stddev	.0004027	.000498	.0005190	.003246	.0017764	.02630
%RSD	2.469677	29.17616	1.322824	65.06329	129.5101	.2219415
#1	.0167533	-.001556	.0394227	-.001248	-.000664	11.87816
#2	.0159707	-.002263	.0396401	-.006655	.002169	11.82560
#3	.0161969	-.001301	.0386523	-.007063	.002610	11.84990

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1145242**	**.0010311**	**.0010560**	F **1039.003**	**.0268072**	**.0121416**
Stddev	.0001637	.0001355	.0000737	4.494	.0003676	.0004817
%RSD	.1429353	13.13653	6.976447	.4325564	1.371172	3.967586
#1	.1146730	.0011499	.0010359	1043.693	.0269668	.0121972
#2	.1145509	.0008836	.0009945	1038.583	.0263868	.0125931
#3	.1143489	.0010598	.0011376	1034.734	.0270681	.0116345

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0589396**	**39.73581**	**2.699066**	**210.4871**	**.0289713**	**-.003897**
Stddev	.0010714	.08743	.007943	.2741	.0003531	.000192
%RSD	1.817711	.2200330	.2942872	.1302198	1.218736	4.933936
#1	.0597928	39.80525	2.704762	210.7407	.0292028	-.003913
#2	.0592889	39.63762	2.689993	210.1963	.0285649	-.004080
#3	.0577372	39.76456	2.702443	210.5243	.0291461	-.003697

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2605022**	**.0326576**	**.1213521**	**2.322850**	**1.628974**	**.1805527**
Stddev	.0939917	.0009333	.0001206	.026456	.009754	.0008585
%RSD	36.08096	2.857770	.0994043	1.138929	.5987773	.4755021
#1	.3509738	.0337332	.1214880	2.351722	1.623781	.1808884
#2	.2671859	.0320626	.1212575	2.317058	1.622916	.1795770
#3	.1633471	.0321769	.1213109	2.299770	1.640226	.1811926

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-20DLX2 Acquired: 1/12/2025 19:20:47 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMS7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009766	.4553119	4.648063	-.003631	.1121754	.0368759
Stddev	.0001253	.0032772	.013711	.001735	.0012465	.0008238
%RSD	12.82714	.7197752	.2949754	47.77848	1.111241	2.233998
#1	.0008996	.4547561	4.649556	-.004737	.1124735	.0374820
#2	.0011212	.4523482	4.633667	-.004523	.1108068	.0372078
#3	.0009091	.4588315	4.660966	-.001631	.1132459	.0359380

Elem	Sr4077
Units	ppm
Avg	.4630510
Stddev	.0012195
%RSD	.2633688
#1	.4644452
#2	.4625257
#3	.4621821

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2400.250	56215.16	8336.084	2667.327	2854.362
Stddev	9.768	141.11	14.585	5.294	16.188
%RSD	.4069701	.2510095	.1749587	.1984600	.5671396
#1	2411.389	56102.70	8333.292	2669.395	2872.990
#2	2393.141	56373.49	8351.863	2671.275	2843.702
#3	2396.221	56169.27	8323.097	2661.312	2846.394

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-12DLX2 Acquired: 1/12/2025 19:24:59 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D59 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1322002	-.002917	10.46257	.0277679	.0188306	24.14721
Stddev	.0016749	.000685	.02421	.0020914	.0018850	.08448
%RSD	1.266914	23.49267	.2313898	7.531595	10.01030	.3498527
#1	.1331041	-.003438	10.49028	.0261303	.0204454	24.16175
#2	.1332289	-.002141	10.44555	.0301237	.0192872	24.05640
#3	.1302676	-.003172	10.45188	.0270496	.0167592	24.22348

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7634603	.0049183	.0258956	7.780606	.0296968	.0275406
Stddev	.0024940	.0000548	.0001843	.037897	.0007923	.0001794
%RSD	.3266686	1.115119	.7117972	.4870760	2.668110	.6513518
#1	.7643895	.0049714	.0260871	7.811460	.0297524	.0276936
#2	.7606351	.0049216	.0258801	7.738304	.0304598	.0273432
#3	.7653563	.0048618	.0257194	7.792053	.0288780	.0275851

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.327753	132.9727	9.146837	13.90395	.0231816	.0374065
Stddev	.003743	.5744	.034118	.08534	.0001821	.0007118
%RSD	.2819188	.4319770	.3730018	.6137659	.7856706	1.902934
#1	1.326598	133.0769	9.150662	13.93381	.0230794	.0367159
#2	1.331937	132.3533	9.110968	13.80769	.0230736	.0373659
#3	1.324722	133.4879	9.178882	13.97034	.0233919	.0381378

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3437176	.0633466	6.533344	3.324826	3.966099	.5322057
Stddev	.0931039	.0006869	.003908	.005749	.016867	.0033436
%RSD	27.08734	1.084418	.0598107	.1729074	.4252750	.6282474
#1	.4153590	.0641233	6.537594	3.327079	3.985475	.5336535
#2	.2384781	.0630979	6.529907	3.329108	3.954709	.5283822
#3	.3773156	.0628187	6.532531	3.318292	3.958112	.5345814

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-12DLX2 Acquired: 1/12/2025 19:24:59 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D59 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1053817	F 12.20725	8.112384	.0093788	.8703345	.0432853
Stddev	.0006285	.05717	.040786	.0005122	.0015207	.0005784
%RSD	.5964354	.4683609	.5027680	5.461169	.1747304	1.336321
#1	.1059444	12.27299	8.109803	.0099702	.8695457	.0439178
#2	.1054974	12.17966	8.072950	.0090749	.8720875	.0431551
#3	.1047034	12.16911	8.154400	.0090914	.8693701	.0427831

Elem	Sr4077
Units	ppm
Avg	.0775398
Stddev	.0002804
%RSD	.3615716
#1	.0774346
#2	.0773272
#3	.0778575

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2782.007	64224.25	8854.459	3049.346	3665.184
Stddev	4.580	222.58	19.010	12.249	5.835
%RSD	.1646258	.3465657	.2146908	.4016996	.1592032
#1	2780.983	64332.56	8872.560	3055.472	3663.101
#2	2787.013	64371.95	8856.161	3057.324	3671.775
#3	2778.026	63968.25	8834.655	3035.243	3660.677

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-05DLX2 Acquired: 1/12/2025 19:28:54 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNC7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1033251	-.002650	.5651891	.0187736	-.001437	27.30833
Stddev	.0020046	.001438	.0039457	.0017619	.001545	.06147
%RSD	1.940051	54.27716	.6981198	9.384965	107.4749	.2250799
#1	.1049786	-.002974	.5607052	.0175770	-.000453	27.36655
#2	.1010956	-.003899	.5681308	.0179470	-.003218	27.31439
#3	.1039010	-.001077	.5667312	.0207968	-.000641	27.24406

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3891219	.0027464	.0034167	520.8460	.0526729	.0415511
Stddev	.0007961	.0000427	.0000793	.9588	.0005333	.0003355
%RSD	.2045970	1.553232	2.321345	.1840780	1.012439	.8073289
#1	.3900218	.0027130	.0034005	521.4858	.0530591	.0419374
#2	.3885092	.0027944	.0035029	521.3085	.0528952	.0413331
#3	.3888348	.0027317	.0033467	519.7436	.0520645	.0413829

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1430278	108.3416	3.596774	66.82305	.0965527	-.009808
Stddev	.0018304	.3282	.007583	.31047	.0007202	.000231
%RSD	1.279742	.3029609	.2108146	.4646197	.7459639	2.360091
#1	.1410220	108.6952	3.605300	67.18003	.0967376	-.009989
#2	.1434537	108.2831	3.590789	66.67316	.0957580	-.009547
#3	.1446077	108.0466	3.594231	66.61596	.0971624	-.009888

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7648159	.0571264	.6103237	6.256250	2.744283	.4906134
Stddev	.0518885	.0019957	.0038297	.082200	.007287	.0015634
%RSD	6.784441	3.493546	.6274918	1.313890	.2655419	.3186614
#1	.7453035	.0548304	.6147422	6.350200	2.744662	.4922631
#2	.8236319	.0584461	.6079587	6.197570	2.751373	.4904233
#3	.7255122	.0581026	.6082701	6.220981	2.736813	.4891537

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-05DLX2 Acquired: 1/12/2025 19:28:54 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNC7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0036467	2.167617	F 11.03400	.0198771	.1377547	.0639239
Stddev	.0005704	.004498	.12286	.0011746	.0024594	.0007951
%RSD	15.64120	.2075071	1.113434	5.909534	1.785325	1.243820
#1	.0031130	2.169639	10.89305	.0212289	.1351682	.0633567
#2	.0042478	2.170750	11.09059	.0191046	.1400634	.0648327
#3	.0035793	2.162463	11.11837	.0192978	.1380324	.0635823

Elem	Sr4077
Units	ppm
Avg	.5340470
Stddev	.0009818
%RSD	.1838430
#1	.5349347
#2	.5342140
#3	.5329925

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2642.906	60940.27	8835.815	2892.747	3140.111
Stddev	5.588	432.16	63.172	18.015	6.340
%RSD	.2114268	.7091604	.7149593	.6227636	.2018963
#1	2649.304	60442.17	8906.856	2873.564	3147.114
#2	2638.983	61215.45	8814.636	2909.306	3134.763
#3	2640.431	61163.21	8785.953	2895.370	3138.455

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-06DLX2 Acquired: 1/12/2025 19:33:00 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNC8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0567353	-.003034	.2944124	.0076973	.0002912	22.16979
Stddev	.0021290	.001671	.0008898	.0031009	.0019073	.05067
%RSD	3.752527	55.07867	.3022241	40.28530	654.9100	.2285741
#1	.0548648	-.001111	.2939384	.0053209	.0009919	22.22795
#2	.0562891	-.003861	.2938599	.0112050	.0017490	22.14633
#3	.0590521	-.004131	.2954388	.0065661	-.001867	22.13510

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2121881	.0024296	.0019955	596.9154	.0386758	.0341104
Stddev	.0012215	.0000418	.0001105	2.5798	.0001301	.0005944
%RSD	.5756657	1.719644	5.538860	.4321849	.3363883	1.742721
#1	.2135418	.0024615	.0018680	594.6849	.0385304	.0340835
#2	.2118543	.0024449	.0020546	596.3207	.0387811	.0335299
#3	.2111682	.0023823	.0020638	599.7406	.0387160	.0347179

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0595769	71.78251	2.551189	72.86059	.0816120	-.006975
Stddev	.0036976	.14894	.005537	.15247	.0005770	.000258
%RSD	6.206423	.2074858	.2170239	.2092672	.7069616	3.701624
#1	.0558823	71.90689	2.557566	73.03109	.0810994	-.007000
#2	.0595708	71.82318	2.548395	72.81338	.0814999	-.006705
#3	.0632775	71.61746	2.547607	72.73731	.0822368	-.007220

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5134002	.0394344	.3241996	6.171933	1.502994	.3439290
Stddev	.0657149	.0003503	.0017123	.033910	.011145	.0021991
%RSD	12.79995	.8883864	.5281582	.5494199	.7415141	.6394141
#1	.5691206	.0391314	.3229012	6.169328	1.494944	.3451288
#2	.5301481	.0393538	.3235574	6.139401	1.498323	.3452671
#3	.4409319	.0398180	.3261401	6.207070	1.515714	.3413909

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-06DLX2 Acquired: 1/12/2025 19:33:00 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNC8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023316	1.544150	F 10.44104	.0017850	.0721893	.0574314
Stddev	.0004232	.003215	.02968	.0006747	.0010775	.0001844
%RSD	18.15260	.2082186	.2843033	37.79612	1.492646	.3210320
#1	.0020392	1.544590	10.40706	.0022676	.0710080	.0572442
#2	.0028169	1.540737	10.46194	.0010141	.0724416	.0576128
#3	.0021387	1.547123	10.45412	.0020733	.0731183	.0574372

Elem	Sr4077
Units	ppm
Avg	.5049707
Stddev	.0014109
%RSD	.2794100
#1	.5065646
#2	.5044658
#3	.5038817

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2524.071	59440.00	8538.784	2837.286	3006.804
Stddev	11.935	86.65	24.883	4.427	20.868
%RSD	.4728412	.1457700	.2914115	.1560198	.6940116
#1	2528.708	59346.89	8565.487	2842.371	3012.555
#2	2532.991	59454.87	8534.618	2834.293	3024.193
#3	2510.514	59518.26	8516.247	2835.194	2983.664

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-07A Acquired: 1/12/2025 19:37:10 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMQ9A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1097240**	**.0003338**	**5.998810**	**.0865026**	**.0784811**	**54.10231**
Stddev	.0028265	.0016866	.012842	.0020096	.0003140	.20068
%RSD	2.576007	505.2399	.2140798	2.323196	.4001495	.3709352
#1	.1099152	-.000424	6.013601	.0851000	.0783393	53.90799
#2	.1068068	-.000841	5.990499	.0856028	.0782629	54.30880
#3	.1124500	.002266	5.992330	.0888049	.0788410	54.09014

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.314452**	**.0046116**	**.0180650**	**32.15377**	**.1395359**	**.0709001**
Stddev	.005207	.0001327	.0001075	.10420	.0008205	.0003710
%RSD	.3961486	2.878419	.5950410	.3240614	.5880572	.5232923
#1	1.310520	.0047524	.0181851	32.08949	.1387121	.0712137
#2	1.320358	.0045938	.0179779	32.27399	.1403531	.0704906
#3	1.312479	.0044887	.0180319	32.09784	.1395425	.0709961

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5193736**	**136.2060**	**4.926955**	**13.91346**	**.1692389**	**.0035287**
Stddev	.0012266	.4917	.013889	.02533	.0008988	.0002904
%RSD	.2361729	.3609979	.2818951	.1820556	.5310673	8.229429
#1	.5203331	135.6869	4.916265	13.89330	.1702762	.0038560
#2	.5179916	136.6647	4.942653	13.94190	.1686934	.0034284
#3	.5197962	136.2664	4.921946	13.90519	.1687470	.0033018

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4981828**	**.1912213**	**2.988332**	**6.207116**	**7.546808**	**.5705281**
Stddev	.0338155	.0010046	.008244	.027261	.027223	.0030074
%RSD	6.787772	.5253633	.2758737	.4391819	.3607218	.5271252
#1	.4591654	.1915329	2.979369	6.188383	7.578226	.5687857
#2	.5190051	.1900978	2.995592	6.238390	7.531986	.5740007
#3	.5163778	.1920332	2.990034	6.194574	7.530212	.5687979

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-07A Acquired: 1/12/2025 19:37:10 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMQ9A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0075172	2.455288	F 17.59420	.1521777	.8285745	.0685520
Stddev	.0002450	.001498	.01341	.0018509	.0056831	.0019186
%RSD	3.259756	.0610192	.0762107	1.216257	.6858948	2.798674
#1	.0072609	2.454777	17.58672	.1543130	.8255255	.0672869
#2	.0077492	2.456975	17.58619	.1510320	.8351315	.0707595
#3	.0075414	2.454112	17.60968	.1511882	.8250666	.0676096

Elem	Sr4077
Units	ppm
Avg	.1483898
Stddev	.0007368
%RSD	.4965167
#1	.1477844
#2	.1492102
#3	.1481748

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2986.412	71328.35	9692.681	3402.863	3548.284
Stddev	3.236	149.77	26.283	12.991	2.999
%RSD	.1083554	.2099709	.2711595	.3817755	.0845126
#1	2986.700	71422.93	9667.564	3415.441	3545.063
#2	2983.043	71155.67	9719.992	3389.495	3548.796
#3	2989.495	71406.44	9690.487	3403.655	3550.994

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-19A Acquired: 1/12/2025 19:41:05 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE7A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1513828**	**-.006988**	**.2804026**	**.0966560**	**.0686738**	**92.97953**
Stddev	.0028003	.001940	.0011986	.0020505	.0012871	.18916
%RSD	1.849802	27.76231	.4274715	2.121411	1.874201	.2034432
#1	.1481597	-.006868	.2817787	.0987963	.0676496	92.78513
#2	.1527707	-.005111	.2795860	.0964625	.0682533	92.99049
#3	.1532181	-.008985	.2798431	.0947091	.0701185	93.16298

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.318668**	**.0064565**	**.0079046**	**22.20537**	**.1489925**	**.1256301**
Stddev	.002706	.0000197	.0000872	.01255	.0004662	.0003492
%RSD	.2052036	.3057443	1.103187	.0565300	.3128806	.2779580
#1	1.316053	.0064380	.0079844	22.19088	.1486471	.1256727
#2	1.321456	.0064773	.0078115	22.21275	.1488077	.1252615
#3	1.318494	.0064541	.0079180	22.21249	.1495228	.1259560

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3955571**	**235.9785**	**12.66928**	**26.40913**	**.1988662**	**-.008596**
Stddev	.0011366	.4131	.02863	.08117	.0002503	.000096
%RSD	.2873364	.1750372	.2259587	.3073606	.1258842	1.114192
#1	.3960713	235.5754	12.64047	26.31540	.1989253	-.008654
#2	.3942543	235.9592	12.69772	26.45563	.1990818	-.008486
#3	.3963458	236.4008	12.66965	26.45635	.1985917	-.008649

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5424169**	**.2226051**	**.4295550**	**6.245089**	**3.264229**	**.9642211**
Stddev	.0612623	.0011851	.0006720	.033788	.008657	.0017725
%RSD	11.29432	.5323766	.1564472	.5410411	.2651977	.1838235
#1	.6131340	.2217164	.4298513	6.267943	3.254509	.9632766
#2	.5086005	.2239507	.4300280	6.206277	3.271110	.9631209
#3	.5055160	.2221483	.4287858	6.261046	3.267066	.9662658

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-19A Acquired: 1/12/2025 19:41:05 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE7A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038409	.5003363	F 17.24800	.0139136	1.140569	.0830469
Stddev	.0001323	.0052672	.09400	.0007527	.002214	.0002388
%RSD	3.443320	1.052725	.5450122	5.409455	.1941420	.2874832
#1	.0039337	.5040706	17.29715	.0139352	1.142711	.0829081
#2	.0036895	.5026264	17.30724	.0131504	1.138289	.0833225
#3	.0038997	.4943117	17.13961	.0146552	1.140708	.0829100

Elem	Sr4077
Units	ppm
Avg	.0902486
Stddev	.0002445
%RSD	.2709236
#1	.0899785
#2	.0903122
#3	.0904550

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3292.379	78026.04	10865.03	3739.261	3359.783
Stddev	6.791	48.66	29.39	10.846	6.339
%RSD	.2062686	.0623606	.2705186	.2900452	.1886640
#1	3286.843	78077.02	10833.57	3730.219	3358.263
#2	3290.336	77980.10	10869.73	3736.279	3354.342
#3	3299.957	78021.01	10891.79	3751.286	3366.743

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-02A Acquired: 1/12/2025 19:44:59 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN82A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2127591	-.003657	3.233008	.0866192	.0752889	50.20947
Stddev	.0015934	.001757	.004542	.0018257	.0006369	.21061
%RSD	.7489438	48.04380	.1404920	2.107729	.8459048	.4194578
#1	.2110722	-.002243	3.227789	.0874846	.0754882	50.08386
#2	.2142388	-.003104	3.235168	.0878512	.0745762	50.09194
#3	.2129662	-.005624	3.236068	.0845217	.0758023	50.45261

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.265578	.0044602	.0124260	62.92878	.1706027	.0808116
Stddev	.003764	.0001877	.0000880	.18350	.0004635	.0003722
%RSD	.2974446	4.208021	.7084197	.2916032	.2716828	.4606103
#1	1.261232	.0043899	.0125186	62.75982	.1710260	.0805898
#2	1.267705	.0046730	.0123433	62.90252	.1706748	.0812413
#3	1.267798	.0043179	.0124162	63.12400	.1701074	.0806036

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.138144	140.1594	7.569806	23.67173	.2057832	.0039617
Stddev	.003519	.4193	.025568	.08530	.0006037	.0001540
%RSD	.3092017	.2991780	.3377665	.3603643	.2933565	3.887929
#1	1.142164	139.7955	7.540573	23.57593	.2050868	.0038486
#2	1.136643	140.0646	7.580844	23.69976	.2061036	.0038995
#3	1.135623	140.6180	7.588001	23.73949	.2061591	.0041371

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4602639	.1426755	7.904541	7.343239	F 14.26608	.5975481
Stddev	.0198114	.0016570	.022431	.017421	.04236	.0028072
%RSD	4.304361	1.161404	.2837748	.2372344	.2969504	.4697955
#1	.4395269	.1445420	7.930307	7.337058	14.27559	.5950878
#2	.4622675	.1413776	7.893947	7.329752	14.30288	.5969505
#3	.4789974	.1421069	7.889369	7.362908	14.21977	.6006061

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-02A Acquired: 1/12/2025 19:44:59 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN82A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071750	4.012262	F 20.87752	.1612363	.8558778	.0634868
Stddev	.0000761	.010800	.08189	.0013125	.0051219	.0009487
%RSD	1.061019	.2691836	.3922232	.8140099	.5984420	1.494379
#1	.0070872	4.006057	20.92936	.1597227	.8547225	.0624114
#2	.0072233	4.024733	20.92009	.1619276	.8614787	.0638433
#3	.0072144	4.005996	20.78312	.1620587	.8514322	.0642056

Elem	Sr4077
Units	ppm
Avg	.1738408
Stddev	.0009716
%RSD	.5588788
#1	.1736442
#2	.1729827
#3	.1748957

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3078.430	71771.18	10174.88	3446.660	3498.467
Stddev	3.526	23.49	46.19	12.396	7.403
%RSD	.1145445	.0327293	.4540007	.3596667	.2116109
#1	3082.469	71794.99	10138.87	3432.368	3507.012
#2	3075.963	71770.52	10158.80	3453.118	3494.388
#3	3076.859	71748.02	10226.96	3454.494	3494.000

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-11A Acquired: 1/12/2025 19:48:53 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK4A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0747562**	**-.002461**	**2.206177**	**.0861239**	**.0738739**	**64.14216**
Stddev	.0008868	.000342	.008280	.0010608	.0034280	.14634
%RSD	1.186311	13.89698	.3753278	1.231710	4.640317	.2281432
#1	.0757625	-.002169	2.213361	.0852764	.0724047	63.97320
#2	.0744175	-.002375	2.197120	.0873135	.0777916	64.22847
#3	.0740887	-.002837	2.208049	.0857817	.0714254	64.22481

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.372545**	**.0049074**	**.0092687**	**84.73635**	**.1300400**	**.0791001**
Stddev	.004686	.0000569	.0000868	.15431	.0006226	.0004559
%RSD	.3413838	1.159926	.9364477	.1821048	.4788103	.5763869
#1	1.374136	.0049513	.0093583	84.72791	.1307334	.0794746
#2	1.367271	.0049278	.0092628	84.58643	.1298582	.0785924
#3	1.376228	.0048431	.0091850	84.89470	.1295286	.0792333

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2512302**	**161.6849**	**7.075330**	**22.12630**	**.1618818**	**.0008803**
Stddev	.0010490	.3323	.024345	.09364	.0011555	.0000839
%RSD	.4175267	.2055300	.3440894	.4232214	.7138007	9.532733
#1	.2517246	161.3570	7.085186	22.09854	.1624156	.0009635
#2	.2500254	161.6762	7.047601	22.04968	.1605559	.0007957
#3	.2519406	162.0214	7.093201	22.23069	.1626739	.0008816

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5876275**	**.1560280**	**6.593541**	**5.196386**	**8.362048**	**.6885114**
Stddev	.0794629	.0013253	.013049	.042909	.035378	.0016070
%RSD	13.52266	.8494140	.1979079	.8257450	.4230767	.2334064
#1	.4991907	.1554598	6.602963	5.147284	8.367831	.6868648
#2	.6530249	.1550814	6.599014	5.215202	8.324135	.6885936
#3	.6106670	.1575426	6.578647	5.226673	8.394178	.6900757

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-11A Acquired: 1/12/2025 19:48:53 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK4A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024361	1.760345	F 21.38301	.1100114	.7441915	.0802011
Stddev	.0002901	.005416	.08584	.0008703	.0027822	.0006632
%RSD	11.90816	.3076385	.4014515	.7910932	.3738614	.8269847
#1	.0025105	1.766565	21.42731	.1110139	.7439501	.0794402
#2	.0026816	1.756675	21.28407	.1095710	.7415378	.0805066
#3	.0021160	1.757795	21.43765	.1094494	.7470866	.0806566

Elem	Sr4077
Units	ppm
Avg	.2629395
Stddev	.0008316
%RSD	.3162689
#1	.2619832
#2	.2634926
#3	.2633428

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3249.452	76452.20	10872.88	3662.009	3432.172
Stddev	12.197	90.50	12.29	4.479	12.595
%RSD	.3753439	.1183774	.1130454	.1223193	.3669590
#1	3236.777	76550.76	10863.86	3661.808	3418.835
#2	3261.106	76433.03	10886.88	3657.633	3443.862
#3	3250.473	76372.82	10867.90	3666.585	3433.820

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-14A Acquired: 1/12/2025 19:52:49 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN81A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0490018**	**-.004450**	**.5361122**	**.0829130**	**.0683900**	**63.60232**
Stddev	.0020305	.000749	.0021746	.0016429	.0014838	.14764
%RSD	4.143809	16.83471	.4056232	1.981425	2.169608	.2321255
#1	.0484795	-.005157	.5376406	.0825753	.0690796	63.50017
#2	.0472834	-.004527	.5336227	.0846984	.0694035	63.77159
#3	.0512424	-.003665	.5370734	.0814652	.0666869	63.53519

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5925612**	**.0040611**	**.0055106**	**60.83671**	**.1325139**	**.0778984**
Stddev	.0015626	.0001141	.0001433	.11620	.0005132	.0003880
%RSD	.2636957	2.809524	2.599594	.1910004	.3872626	.4980698
#1	.5916703	.0040444	.0054318	60.75762	.1319236	.0778802
#2	.5943654	.0041827	.0056760	60.97012	.1328532	.0782951
#3	.5916479	.0039564	.0054242	60.78240	.1327651	.0775198

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1407070**	**165.2706**	**3.652505**	**36.66101**	**.1836008**	**-.001644**
Stddev	.0008073	.4338	.009311	.13286	.0004499	.000106
%RSD	.5737782	.2624535	.2549208	.3624072	.2450596	6.454043
#1	.1399680	164.9042	3.645189	36.59466	.1830980	-.001706
#2	.1415687	165.7496	3.662986	36.81398	.1837387	-.001522
#3	.1405843	165.1581	3.649340	36.57438	.1839656	-.001706

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6386353**	**.1438989**	**.7018863**	**8.090127**	**7.850274**	**.6969240**
Stddev	.1060805	.0015573	.0017139	.031229	.019029	.0016523
%RSD	16.61050	1.082204	.2441893	.3860120	.2423941	.2370784
#1	.7151530	.1449916	.7000506	8.108495	7.861371	.6955542
#2	.5175401	.1445893	.7034446	8.107817	7.861150	.6987590
#3	.6832126	.1421157	.7021638	8.054069	7.828302	.6964589

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-14A Acquired: 1/12/2025 19:52:49 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN81A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007103	.8430872	F 22.19191	.0174434	1.108195	.1028157
Stddev	.0003224	.0033360	.14309	.0001531	.004006	.0008788
%RSD	45.38846	.3956929	.6447942	.8774930	.3614646	.8547131
#1	.0006219	.8402498	22.08873	.0172684	1.104349	.1030458
#2	.0010677	.8422497	22.35526	.0175519	1.112343	.1035566
#3	.0004413	.8467622	22.13173	.0175101	1.107893	.1018448

Elem	Sr4077
Units	ppm
Avg	.1141628
Stddev	.0002319
%RSD	.2031622
#1	.1141023
#2	.1144190
#3	.1139672

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3296.006	76481.29	10786.82	3658.348	3493.388
Stddev	3.044	288.40	45.31	4.629	6.668
%RSD	.0923470	.3770846	.4200716	.1265342	.1908632
#1	3293.731	76792.30	10822.77	3661.783	3494.248
#2	3294.823	76222.69	10735.93	3653.084	3486.332
#3	3299.464	76428.89	10801.77	3660.176	3499.584

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-20A Acquired: 1/12/2025 19:56:45 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL7A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0910298**	**-.005970**	**.8892528**	**.0866433**	**.0870638**	**41.11264**
Stddev	.0031848	.001207	.0018809	.0023487	.0011948	.22003
%RSD	3.498687	20.22330	.2115202	2.710778	1.372383	.5351792
#1	.0937196	-.007218	.8909646	.0857404	.0879961	40.85894
#2	.0875130	-.005886	.8872392	.0848799	.0857168	41.25130
#3	.0918566	-.004807	.8895545	.0893094	.0874784	41.22767

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7539421**	**.0031312**	**.0074011**	**191.9027**	**.1001771**	**.0656442**
Stddev	.0039559	.0001287	.0000403	.7069	.0004937	.0001948
%RSD	.5247025	4.111206	.5442110	.3683554	.4928691	.2967619
#1	.7499113	.0030472	.0073675	191.0957	.1000756	.0654557
#2	.7578187	.0032794	.0073901	192.4124	.0997420	.0656322
#3	.7540964	.0030669	.0074457	192.1999	.1007137	.0658447

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2063469**	**154.9382**	**10.72229**	**45.45957**	**.1108701**	**.0004011**
Stddev	.0013845	.7454	.04348	.19488	.0003224	.0003751
%RSD	.6709696	.4810965	.4054638	.4286829	.2907631	93.52433
#1	.2079126	154.0776	10.67407	45.23458	.1109592	.0000097
#2	.2052840	155.3772	10.75849	45.57564	.1111385	.0004361
#3	.2058442	155.3600	10.73432	45.56848	.1105125	.0007575

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.003925**	**.0934056**	**1.093037**	**4.146845**	**9.081730**	**.6379326**
Stddev	.083591	.0004199	.002010	.037768	.013489	.0041363
%RSD	8.326459	.4495566	.1839213	.9107692	.1485318	.6483892
#1	1.025449	.0938076	1.094645	4.138927	9.086928	.6331567
#2	1.074650	.0929698	1.093683	4.113664	9.091847	.6403652
#3	.911677	.0934396	1.090783	4.187945	9.066415	.6402758

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-20A Acquired: 1/12/2025 19:56:45 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL7A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0058645	1.407470	F 22.56216	.0296920	.7833471	.0657450
Stddev	.0001485	.006509	.03052	.0013537	.0007919	.0009445
%RSD	2.532405	.4624908	.1352556	4.559084	.1010964	1.436640
#1	.0057906	1.404830	22.52878	.0301434	.7837439	.0658293
#2	.0060355	1.414885	22.58863	.0281703	.7838621	.0666446
#3	.0057675	1.402696	22.56908	.0307623	.7824352	.0647612

Elem	Sr4077
Units	ppm
Avg	.2680222
Stddev	.0014931
%RSD	.5570944
#1	.2662981
#2	.2688737
#3	.2688948

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2996.659	70256.09	9838.724	3366.284	3305.509
Stddev	4.377	105.85	35.862	11.077	6.286
%RSD	.1460537	.1506654	.3644979	.3290649	.1901809
#1	2998.286	70252.39	9799.336	3353.499	3311.208
#2	2991.702	70363.74	9869.486	3372.329	3298.766
#3	2999.990	70152.13	9847.350	3373.023	3306.552

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-05A Acquired: 1/12/2025 20:00:42 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF3A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1764872	-.005665	1.775256	.0735719	.0665664	56.98121
Stddev	.0004886	.000289	.002886	.0017161	.0010483	.19188
%RSD	.2768498	5.106447	.1625614	2.332558	1.574795	.3367425
#1	.1760122	-.005522	1.771924	.0744126	.0656758	57.17453
#2	.1769883	-.005476	1.776860	.0747056	.0677216	56.79081
#3	.1764612	-.005998	1.776983	.0715975	.0663016	56.97828

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.263413	.0107360	.0087175	180.9410	.3564381	.1001389
Stddev	.020053	.0002113	.0001021	.6662	.0013001	.0003394
%RSD	.6144801	1.968035	1.171647	.3681814	.3647460	.3389209
#1	3.281333	.0109537	.0088336	181.5893	.3578260	.1001068
#2	3.241754	.0107227	.0086777	180.2582	.3552487	.0998167
#3	3.267153	.0105317	.0086412	180.9754	.3562396	.1004933

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7586006	149.1734	9.945745	35.71803	.1562822	.0012154
Stddev	.0077793	.5165	.057186	.14750	.0008657	.0002939
%RSD	1.025485	.3462362	.5749754	.4129492	.5539662	24.18247
#1	.7630165	149.6714	10.00728	35.88833	.1570842	.0011788
#2	.7631670	148.6402	9.89423	35.63099	.1563980	.0015259
#3	.7496182	149.2085	9.93572	35.63476	.1553643	.0009415

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7494974	.3117008	2.936757	6.086615	F 18.57910	.6471404
Stddev	.2051609	.0040127	.015867	.017774	.03766	.0029663
%RSD	27.37313	1.287343	.5402943	.2920101	.2026936	.4583689
#1	.6884961	.3150507	2.955057	6.107051	18.61368	.6497284
#2	.9782407	.3127981	2.928384	6.074755	18.53898	.6439033
#3	.5817555	.3072537	2.926830	6.078041	18.58465	.6477895

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-05A Acquired: 1/12/2025 20:00:42 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF3A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071408	3.032109	F 21.23547	.0944106	.7232282	.0857330
Stddev	.0002974	.008143	.31735	.0008389	.0090373	.0006019
%RSD	4.165013	.2685534	1.494435	.8885850	1.249581	.7020881
#1	.0073267	3.040703	21.49498	.0939379	.7301877	.0863817
#2	.0072978	3.031115	21.32978	.0939147	.7264824	.0856248
#3	.0067977	3.024509	20.88166	.0953792	.7130144	.0851926

Elem	Sr4077
Units	ppm
Avg	.3151422
Stddev	.0008882
%RSD	.2818543
#1	.3155660
#2	.3141215
#3	.3157392

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3410.886	79113.67	11535.77	3786.441	3350.719
Stddev	4.598	468.78	163.62	16.801	4.886
%RSD	.1347988	.5925378	1.418401	.4437280	.1458220
#1	3411.001	78602.76	11407.88	3767.043	3350.621
#2	3415.426	79523.99	11479.26	3796.450	3355.654
#3	3406.232	79214.25	11720.15	3795.829	3345.883

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-09A Acquired: 1/12/2025 20:04:35 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNJ0A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1232083**	**-.003463**	**.3153237**	**.0821323**	**.0921629**	**51.67628**
Stddev	.0033924	.001916	.0000139	.0023818	.0022013	.27801
%RSD	2.753383	55.32923	.0044176	2.899934	2.388499	.5379742
#1	.1195456	-.001792	.3153184	.0837831	.0909998	51.98050
#2	.1262426	-.005554	.3153133	.0794019	.0907871	51.61294
#3	.1238366	-.003041	.3153396	.0832119	.0947018	51.43542

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8943926**	**.0039424**	**.0086013**	**513.4505**	**.1325333**	**.0727749**
Stddev	.0060854	.0000485	.0001121	1.3203	.0004406	.0001017
%RSD	.6803987	1.229158	1.303681	.2571388	.3324106	.1397571
#1	.8997669	.0038884	.0086439	512.6283	.1330410	.0727231
#2	.8956260	.0039567	.0086860	514.9734	.1323072	.0728921
#3	.8877849	.0039821	.0084742	512.7497	.1322517	.0727095

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4967250**	**169.3283**	**5.827658**	**57.78395**	**.1805151**	**-.000317**
Stddev	.0029993	.8585	.028196	.21949	.0003340	.000243
%RSD	.6038191	.5070101	.4838284	.3798434	.1850375	76.76913
#1	.4948717	170.1951	5.853442	58.00422	.1803955	-.000039
#2	.5001854	169.3114	5.831981	57.78237	.1802573	-.000493
#3	.4951178	168.4783	5.797550	57.56525	.1808924	-.000420

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8260912**	**.1178056**	**.6451016**	**10.62069**	**5.102202**	**.7609987**
Stddev	.0876616	.0022747	.0026058	.01754	.008621	.0036041
%RSD	10.61161	1.930898	.4039387	.1651042	.1689614	.4736017
#1	.8616165	.1154175	.6434596	10.60053	5.104704	.7648320
#2	.7262431	.1199468	.6481062	10.63241	5.109295	.7604852
#3	.8904139	.1180524	.6437390	10.62913	5.092607	.7576789

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-09A Acquired: 1/12/2025 20:04:35 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNJ0A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013390	1.229546	F 23.71768	.0356883	1.230728	.1218268
Stddev	.0002325	.001783	.04862	.0008768	.004381	.0006105
%RSD	17.36279	.1450110	.2050013	2.456716	.3559612	.5011260
#1	.0012768	1.228870	23.66200	.0354092	1.229376	.1220059
#2	.0015963	1.231568	23.75178	.0349850	1.235626	.1211468
#3	.0011440	1.228200	23.73925	.0366706	1.227183	.1223278

Elem	Sr4077
Units	ppm
Avg	.3422945
Stddev	.0022826
%RSD	.6668396
#1	.3448988
#2	.3413433
#3	.3406414

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2861.484	66664.75	9707.061	3175.459	3139.055
Stddev	5.824	200.37	70.950	6.086	3.700
%RSD	.2035414	.3005564	.7309080	.1916534	.1178848
#1	2858.184	66706.59	9783.327	3177.320	3136.229
#2	2858.060	66446.76	9643.014	3168.660	3137.693
#3	2868.209	66840.88	9694.843	3180.397	3143.244

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV012 Acquired: 1/12/2025 20:08:39 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV012 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.667025**	**4.519356**	**23.16771**	**4.696248**	**4.635686**	**365.3823**
Stddev	.009372	.056738	.02638	.004925	.003499	2.6924
%RSD	.2008032	1.255444	.1138724	.1048700	.0754868	.7368692
#1	4.656796	4.534411	23.19310	4.690615	4.638598	363.8178
#2	4.669082	4.567048	23.16958	4.699740	4.631804	363.8379
#3	4.675198	4.456608	23.14044	4.698389	4.636656	368.4912

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.375638**	**.5191879**	**2.582739**	**373.2064**	**14.85616**	**2.343717**
Stddev	.067152	.0029018	.005582	4.3874	.01622	.003106
%RSD	.7162385	.5589173	.2161163	1.175602	.1091552	.1325224
#1	9.314617	.5221991	2.587083	368.5319	14.86474	2.347024
#2	9.364716	.5189552	2.584691	373.8521	14.83746	2.343265
#3	9.447582	.5164095	2.576444	377.2352	14.86629	2.340861

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.21991**	**372.3190**	**14.12104**	**235.5054**	**2.340250**	**1.343183**
Stddev	.02081	1.5810	.06284	.9363	.005990	.001355
%RSD	.1463208	.4246245	.4450310	.3975791	.2559419	.1009142
#1	14.23466	371.7831	14.11297	234.8972	2.346787	1.344338
#2	14.19611	371.0757	14.06263	235.0354	2.338937	1.343521
#3	14.22896	374.0983	14.18753	236.5836	2.335026	1.341691

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**372.3941**	**2.331108**	**14.88257**	**136.4781**	**4.559156**	F **5.656138**
Stddev	.3613	.002361	.03486	.7290	.014114	.013680
%RSD	.0970117	.1012614	.2342422	.5341591	.3095824	.2418604
#1	372.8113	2.333652	14.84354	136.2959	4.564794	5.671094
#2	372.1825	2.328989	14.89354	135.8574	4.569580	5.653063
#3	372.1886	2.330683	14.91063	137.2808	4.543094	5.644258

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV012 Acquired: 1/12/2025 20:08:39 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV012 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 4.414754	4.580148	4.718338	4.611493	4.658730	F 4.207049
Stddev	.001143	.012322	.010730	.011966	.009027	.018654
%RSD	.0258852	.2690278	.2274191	.2594911	.1937641	.4434071
#1	4.413691	4.586096	4.717653	4.625170	4.669056	4.210004
#2	4.415963	4.565981	4.729395	4.606354	4.654796	4.187093
#3	4.414609	4.588368	4.707967	4.602955	4.652337	4.224049

Elem	Sr4077
Units	ppm
Avg	4.694409
Stddev	.043672
%RSD	.9302903
#1	4.644687
#2	4.726548
#3	4.711994

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2141.691	52487.44	7928.627	2509.619	2862.811
Stddev	1.439	160.11	7.077	9.302	6.382
%RSD	.0671899	.3050496	.0892539	.3706478	.2229248
#1	2141.629	52573.08	7925.215	2520.345	2857.410
#2	2140.283	52586.52	7923.903	2504.749	2861.169
#3	2143.159	52302.72	7936.763	2503.764	2869.853

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB012 Acquired: 1/12/2025 20:17:15 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB012 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000715**	**.0001848**	**.0012931**	**.0018952**	**.0002425**	**.0117406**	**-.004781**
Stddev	.000667	.0015642	.0004286	.0014385	.0024812	.0017616	.000726
%RSD	93.30599	846.4117	33.14681	75.89964	1023.204	15.00454	15.18897
#1	-.001041	.0013643	.0008432	.0035378	.0031005	.0119792	-.005483
#2	-.001155	.0007796	.0013394	.0012873	-.001014	.0133707	-.004032
#3	.000052	-.001590	.0016967	.0008605	-.001360	.0098718	-.004829

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000027**	**.0000873**	**.0245608**	**.0007246**	**.0000927**	**-.000630**	**.0255236**
Stddev	.0000781	.0000576	.0071470	.0003095	.0001677	.001815	.0051259
%RSD	2933.752	65.96534	29.09930	42.71142	180.9421	288.0418	20.08299
#1	.0000924	.0001530	.0298499	.0006890	.0000847	-.002611	.0222400
#2	-.000035	.0000456	.0274025	.0010504	.0002642	.000954	.0314302
#3	-.000049	.0000632	.0164300	.0004345	-.000071	-.000234	.0229006

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006179**	**.0337978**	**.0001442**	**.0003779**	**-.019646**	**-.001221**	**.0008531**
Stddev	.0003396	.0245150	.0003704	.0001781	.064861	.001098	.0001774
%RSD	54.96049	72.53445	256.8524	47.12826	330.1560	89.87036	20.79404
#1	.0002366	.0516724	.0003759	.0005699	.023420	-.000575	.0009862
#2	.0008877	.0438699	-.000283	.0002181	-.094244	-.002489	.0009213
#3	.0007294	.0058510	.000340	.0003458	.011888	-.000600	.0006517

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.048154**	**-.002154**	**.0037220**	**.0004114**	**-.001882**	**.0089243**	**-.000363**
Stddev	.011380	.000640	.0009525	.0002678	.002042	.0048414	.000630
%RSD	23.63244	29.72091	25.59063	65.10713	108.5436	54.24984	173.4979
#1	-.052350	-.002134	.0048218	.0005239	-.001436	.0143835	.000188
#2	-.056841	-.001524	.0031591	.0006045	-.000099	.0072373	-.000228
#3	-.035272	-.002803	.0031853	.0001056	-.004110	.0051521	-.001050

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB012 Acquired: 1/12/2025 20:17:15 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB012 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000385	-.001672	.0001605
Stddev	.001554	.000912	.0000298
%RSD	404.0819	54.54491	18.59176
#1	.000913	-.002686	.0001298
#2	-.002106	-.000918	.0001894
#3	.000040	-.001413	.0001624

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2666.229	61820.33	8198.951	2961.982	3783.952
Stddev	9.845	254.45	13.246	12.028	6.385
%RSD	.3692417	.4116004	.1615515	.4060793	.1687369
#1	2654.971	61613.86	8214.154	2956.035	3776.703
#2	2673.222	61742.54	8189.904	2954.086	3786.415
#3	2670.495	62104.60	8192.794	2975.825	3788.739

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Prep Standard - Chemical Standard Summary

Order ID : P5206

Test : Metals CLP Full

Prepbatch ID : PB165911,

Sequence ID/Qc Batch ID: LB134242,

Standard ID :
MP83498,MP83500,MP83501,MP83502,MP83503,MP83504,MP83505,MP83506,MP83507,MP83508,MP83509,MP835
10,MP83511,MP83512,MP83513,MP83514,MP84003,

Chemical ID :
M5130,M5218,M5223,M5289,M5295,M5296,M5390,M5393,M5429,M5473,M5496,M5497,M5498,M5513,M5515,M5519
,M5658,M5697,M5698,M5768,M5769,M5798,M5799,M5800,M5801,M5802,M5806,M5815,M5816,M5817,M5818,M581
9,M5820,M5875,M5959,M5960,M5962,M5970,M5976,M5978,M5982,M5985,M5990,M5999,M6021,M6023,M6025,M60
28,M6030,M6121,M6125,M6126,W3112,

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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	01/31/2025	Janvi Patel	None	None	Sarabjit Jaswal 12/09/2024

FROM 1250.00000ml of M6126 + 1250.00000ml of W3112 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
902	ICP AES CAL BLK (SO/ICB/CCB)	MP83500	12/06/2024	01/14/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 125.00000ml of M6121 + 2350.00000ml of W3112 + 25.00000ml of M6126 = Final Quantity: 2500.000 ml

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Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2480	ICP AES STD 6 ISM01.3	MP83501	12/06/2024	01/13/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 4.00000ml of M5289 + 4.00000ml of M5498 + 4.00000ml of M5515 + 4.00000ml of M5768 + 4.00000ml of M5806 + 30.00000ml of MP83500 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1004	ICPAES ISM01.2 (S5)	MP83502	12/06/2024	01/13/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 0.25000ml of M5798 + 0.50000ml of M5429 + 0.50000ml of M5473 + 0.50000ml of M5815 + 0.50000ml of M5817 + 12.50000ml of M5519 + 12.50000ml of M5698 + 12.50000ml of M5806 + 12.50000ml of M5819 + 13.75000ml of M5697 + 14.50000ml of M5496 + 14.50000ml of M5515 + 14.50000ml of M5658 + 2.00000ml of M5513 + 22.50000ml of M5497 + 22.50000ml of M5768 + 5.00000ml of M5296 + 5.00000ml of M5393 + 5.00000ml of M5802 + 5.00000ml of M5818 + 5.00000ml of M5875 + 303.50000ml of MP83500 = Final Quantity: 500.000 ml

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Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1005	ICPAES ISM01.2(S4)	MP83503	12/09/2024	01/13/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 250.00000ml of MP83500 + 250.00000ml of MP83502 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1007	ICPAES ISM01.2(S3)	MP83504	12/09/2024	01/13/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 25.00000ml of MP83502 + 75.00000ml 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
1008	ICPAES ISM01.2(S2)	MP83505	12/09/2024	01/13/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 12.50000ml of MP83502 + 87.50000ml of MP83500 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
994	ICPAES ISM01.2 S1 (CONC.)	MP83506	12/09/2024	01/13/2025	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 + 99.50000ml of MP83500 = Final Quantity: 100.000 ml

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Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1003	ICPAES ISM01.2 S1	MP83507	12/09/2024	01/13/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 0.50000ml of MP83506 + 99.50000ml of MP83500 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2054	ICV-ICPAES	MP83508	12/09/2024	01/13/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 0.50000ml of M5218 + 0.50000ml of M5816 + 0.50000ml of M5820 + 0.50000ml of M5970 + 0.50000ml of M5982 + 10.00000ml of M5295 + 87.50000ml of MP83500 = Final Quantity: 100.000 ml

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Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
904	ICP AES ICSA SOLN	MP83509	12/09/2024	01/13/2025	Kareem Khairalla	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 12/09/2024

FROM 10.00000ml of M5130 + 90.00000ml of MP83500 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
905	ICP AES ICSAB SOLN	MP83510	12/09/2024	01/13/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 10.00000ml of M5130 + 10.00000ml of M5223 + 80.00000ml of MP83500 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1119	ICPAES ISM01.2(CCV)	MP83511	12/09/2024	01/13/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 0.75000ml of M5497 + 0.75000ml of M5769 + 1.22500ml of M5496 + 1.25000ml of M5515 + 1.25000ml of M5806 + 19.77500ml of MP83500 + 25.00000ml of MP83502 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
921	ICPAES SPIKE SOL#6	MP83512	12/09/2024	01/13/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 2.50000ml of M5962 + 50.00000ml of M5990 + 50.00000ml of M5999 + 147.50000ml of MP83500 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
919	ICP AES INTERNAL STD	MP83513	12/09/2024	01/13/2025	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	01/13/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 200.00000ml of M6126 + 9800.00000ml of W3112 = Final Quantity: 10000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3559	SE 100PPM	MP84003	01/11/2025	01/14/2025	Sarabjit Jaswal	None	None	Mohan Bera 01/12/2025

FROM 1.00000ml of M5962 + 9.00000ml of MP83500 = Final Quantity: 10.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART A / ICSA (ICP) STOCK SOLN	ICSA-1211	01/31/2025	05/20/2024 / jaswal	04/20/2021 / bin	M5130

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CHEM-QC-4 / CHEM-QC-4, Second Source, 1000 ug/ml, B, Mo, Si, Sn, Ti	S2-MEB711674	11/02/2026	07/01/2022 / bin	09/10/2021 / bin	M5218

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART B / ICSAB (ICP) STOCK SOLN	ICSB-0710	01/31/2025	05/20/2024 / jaswal	04/20/2021 / bin	M5223

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Aluminum (Al) 10,000PPM	070622	07/06/2025	09/02/2022 / jaswal	07/12/2022 / jaswal	M5289

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-1 / ICV (ICP/ICPMS) STOCK SOLN	ICV-1014	02/05/2025	08/07/2024 / jaswal	04/20/2021 / bin	M5295

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	Z9651Q / CHEM-CLP-4/.25L	S2-MEB711673	11/02/2026	09/19/2022 / jaswal	08/20/2022 / jaswal	M5296

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57056 / Ba, 1000 PPM, 125 ml	072122	07/21/2025	08/07/2024 / jaswal	09/18/2022 / bin	M5390

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-CAL-3 / CLP CAL SOLUTION #3, 125mL	T2-MEB714159	01/13/2027	10/12/2022 / bin	09/19/2022 / bin	M5393

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57103 / Li, 10000 PPM, 125 ml	070622	07/06/2025	01/30/2023 / bin	01/26/2023 / bin	M5429

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57138 / Sr, 10000 PPM, 125 ml	082922	08/29/2025	03/16/2023 / jaswal	03/16/2023 / jaswal	M5473

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Al, 10000 PPM, 500 ml	011623	01/16/2026	08/15/2023 / jaswal	03/17/2023 / bin	M5496

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Ca, 10000 PPM, 500 ml	031523	03/15/2026	03/18/2023 / bin	03/17/2023 / bin	M5497

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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	08/15/2023 / jaswal	03/17/2023 / bin	M5498

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57182 / Pb, 10000 PPM, 125 ml	061522	06/15/2025	03/19/2023 / bin	03/17/2023 / bin	M5513

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58126 / Fe, 10000 PPM, 500 ml	092122	09/21/2025	08/01/2024 / Jaswal	03/17/2023 / bin	M5515

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57119 / Potassium (K) 10,000PPM	120822	12/08/2025	01/08/2024 / bin	03/17/2023 / bin	M5519

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58024 / Chromium, Cr, 500 ml, 1000 PPM	060523	06/05/2026	08/28/2023 / jaswal	08/25/2023 / jaswal	M5658

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	102523	10/25/2026	04/03/2024 / jaswal	10/27/2023 / jaswal	M5697

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58025 / Mn, 1000 PPM, 500 ml	102623	10/26/2026	04/18/2024 / jaswal	10/27/2023 / jaswal	M5698

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	091823	09/18/2026	01/08/2024 / bin	01/03/2024 / bin	M5768

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	091823	09/18/2026	05/24/2024 / Jaswal	01/03/2024 / bin	M5769

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57004 / Be, 1000 PPM, 125 ml	102523	10/25/2026	02/09/2024 / bin	02/09/2024 / bin	M5798

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57050 / Sn, 1000 PPM, 125 ml	071123	07/11/2026	02/09/2024 / bin	02/09/2024 / bin	M5799

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57027 / CO, 1000 PPM, 125 ml	091923	09/19/2026	05/31/2024 / bin	02/09/2024 / bin	M5800

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57033 / As, 1000 PPM, 125 ml	111323	11/13/2026	02/09/2024 / bin	02/09/2024 / bin	M5801

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57051 / Sb, 1000 PPM, 125 ml	120523	12/05/2026	08/07/2024 / jaswal	01/03/2024 / jaswal	M5802

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58111 / Na, 10000 PPM, 500 ml	122223	12/22/2026	08/01/2024 / Jaswal	01/03/2024 / jaswal	M5806

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57115 / P, 10000 PPM, 125 ml	041723	04/17/2026	05/21/2024 / Jaswal	02/09/2024 / jaswal	M5815

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57016 / S, 1000 PPM, 125 ml	122923	12/29/2026	05/20/2024 / Jaswal	02/09/2024 / jaswal	M5816

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57116 / S, 10000 PPM, 125 ml	071123	07/11/2026	03/01/2024 / jaswal	02/09/2024 / jaswal	M5817

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57014 / Si, 1000 PPM, 125 ml	122023	12/20/2026	03/06/2024 / jaswal	02/09/2024 / jaswal	M5818

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58030 / Zinc, Zn, 500 ml, 1000 PPM	111623	11/16/2026	03/20/2024 / jaswal	02/09/2024 / jaswal	M5819

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57015 / P, 1000 PPM, 125 ml	091123	09/11/2026	05/01/2024 / jaswal	02/09/2024 / jaswal	M5820

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-CAL-1 / CLP CAL SOLUTION #1, 125mL	T2-MEB714417	01/27/2027	04/19/2024 / jaswal	02/22/2024 / jaswal	M5875

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGY10-1 / YTTRIUM 125mL 10,000ug/mL	V2-Y740548	02/20/2029	07/01/2024 / Jaswal	06/14/2024 / Jaswal	M5959

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57028 / Ni, 1000 PPM, 125 ml	041124	04/11/2027	07/03/2024 / kareem	06/11/2024 / kareem	M5960

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57034 / Se, 1000 PPM, 125 ml	060624	06/06/2027	07/02/2024 / Jaswal	06/14/2024 / Jaswal	M5962

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57003 / Li, 1000 PPM, 125 ml	061224	06/21/2027	07/01/2024 / Jaswal	07/01/2024 / Jaswal	M5970

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGMO1-1 / MOLYBDENUM 125mL 1000ug/mL	T2-MO720876	07/17/2027	08/07/2024 / jaswal	02/22/2024 / Jaswal	M5976

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGTI1-1 / TITANIUM 125mL 1000ug/mL	T2-TI719972	06/17/2027	08/07/2024 / jaswal	02/22/2024 / Jaswal	M5978

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57038 / Sr, 1000 PPM, 125 ml	031524	03/15/2027	07/01/2024 / Jaswal	06/11/2024 / Jaswal	M5982

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGIN10-5 / INDIUM 1 x 500 ml	U2-IN729349	02/21/2028	10/08/2024 / Jaswal	06/14/2024 / Jaswal	M5985

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-SPK-5 / CLP Spike Standard 5	V2-MEB742037	03/12/2029	10/04/2024 / Jaswal	02/22/2024 / Jaswal	M5990

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-SPK-1 / SOIL/WATER SPIKE SOLN 1, 125mL	T2-MEB721963	07/27/2027	09/04/2024 / Jaswal	02/22/2024 / kareem	M5999

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57023 / V, 1000 PPM, 125 ml	062424	06/24/2027	09/28/2024 / jaswal	08/05/2024 / Jaswal	M6021

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57081 / Tl, 1000 PPM, 125 ml	0624724	06/27/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6023

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57082 / Pb, 1000 PPM, 125 ml	061224	11/09/2026	08/05/2024 / Jaswal	08/05/2024 / Jaswal	M6025

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57048 / Cd, 1000 PPM, 125 ml	070124	07/01/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6028

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57047 / Ag, 1000 PPM, 125 ml	122823	12/28/2026	08/05/2024 / kareem	08/05/2024 / Jaswal	M6030

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	0000275677	05/13/2025	11/13/2024 / Eman	10/13/2024 / Eman	M6121

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	1403 / Hydrogen Peroxide, 30% 1 gal	820803	05/25/2025	11/26/2024 / Eman	11/22/2024 / Eman	M6125

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	06/03/2025	12/03/2024 / Janvi	11/12/2024 / Janvi	M6126

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

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R: 02/22/24 M5986 M5987, M5988, M5989-M5990

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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:

587

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 8/5/24

M6028

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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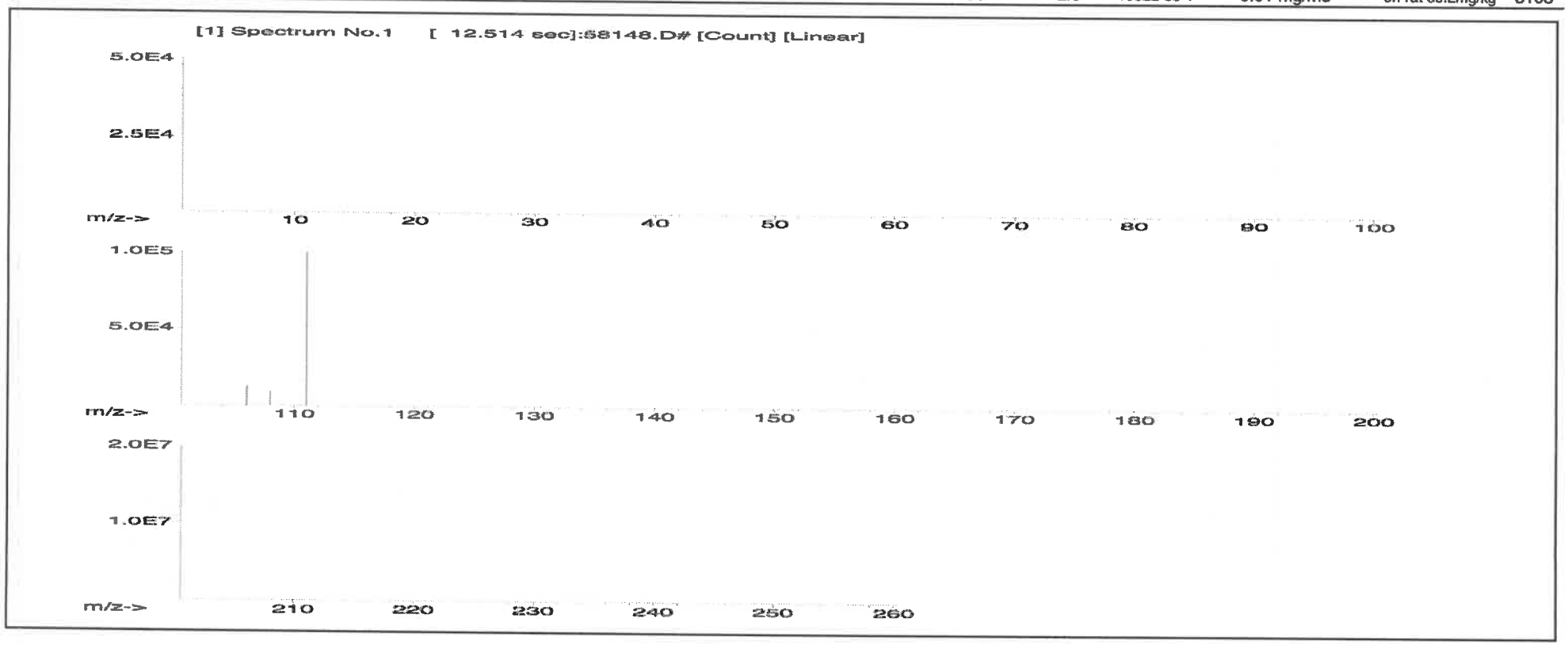
CERTIFIED WEIGHT REPORT:

Part Number:	**57048**		**Lot #**		
Lot Number:	**070124**	**Solvent:**	24002546	Nitric Acid	
Description:	**Cadmium (Cd)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	070127				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty		

Aleah O'Brady

Formulated By:	Aleah O'Brady	070124
Reviewed By:	Pedro L. Rentas	070124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cadmium nitrate tetrahydrate (Cd)	IN024	CDM092021A1	1000	99.999	0.10	36.5	5.4797	5.4804	**1000.1**	**2.0**	10022-68-1	0.01 mg/m3	orl-rat 60.2mg/kg	3108



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	T	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

M5296 OP: 09/19/2022 BH

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CHEM-CLP-4
Lot Number:	S2-MEB711673
Matrix:	3% (v/v) HNO3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	**1 000 ± 6 µg/mL**	**Molybdenum, Mo**	**1 000 ± 6 µg/mL**
Silicon, Si	**1 000 ± 7 µg/mL**	**Tin, Sn**	**1 000 ± 6 µg/mL**
Titanium, Ti	**1 000 ± 7 µg/mL**		

Density: 1.030 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	110830
Mo	ICP Assay	3134	130418
Si	ICP Assay	3150	130912
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	3162a	130925

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

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Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 02, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 02, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	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 (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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**

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"

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 27, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 27, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

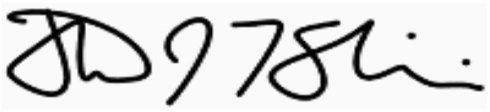
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-CAL-3
Lot Number:	T2-MEB714159
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Arsenic, Lead, Selenium, Thallium, 500 µg/mL ea: Cadmium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Arsenic, As	**1 000 ± 8 µg/mL**	**Cadmium, Cd**	**500.0 ± 2.1 µg/mL**
Lead, Pb	**1 000 ± 5 µg/mL**	**Selenium, Se**	**1 000 ± 8 µg/mL**
Thallium, Tl	**1 000 ± 7 µg/mL**		

Density: 1.043 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Tl	ICP Assay	3158	151215

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

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Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

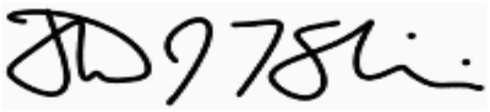
- Sealed TCT Bag Open Date: _____

- 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

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CERTIFIED WEIGHT REPORT:

Part Number: 57182
Lot Number: 110923
Description: Lead (Pb)

Expiration Date: 110926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

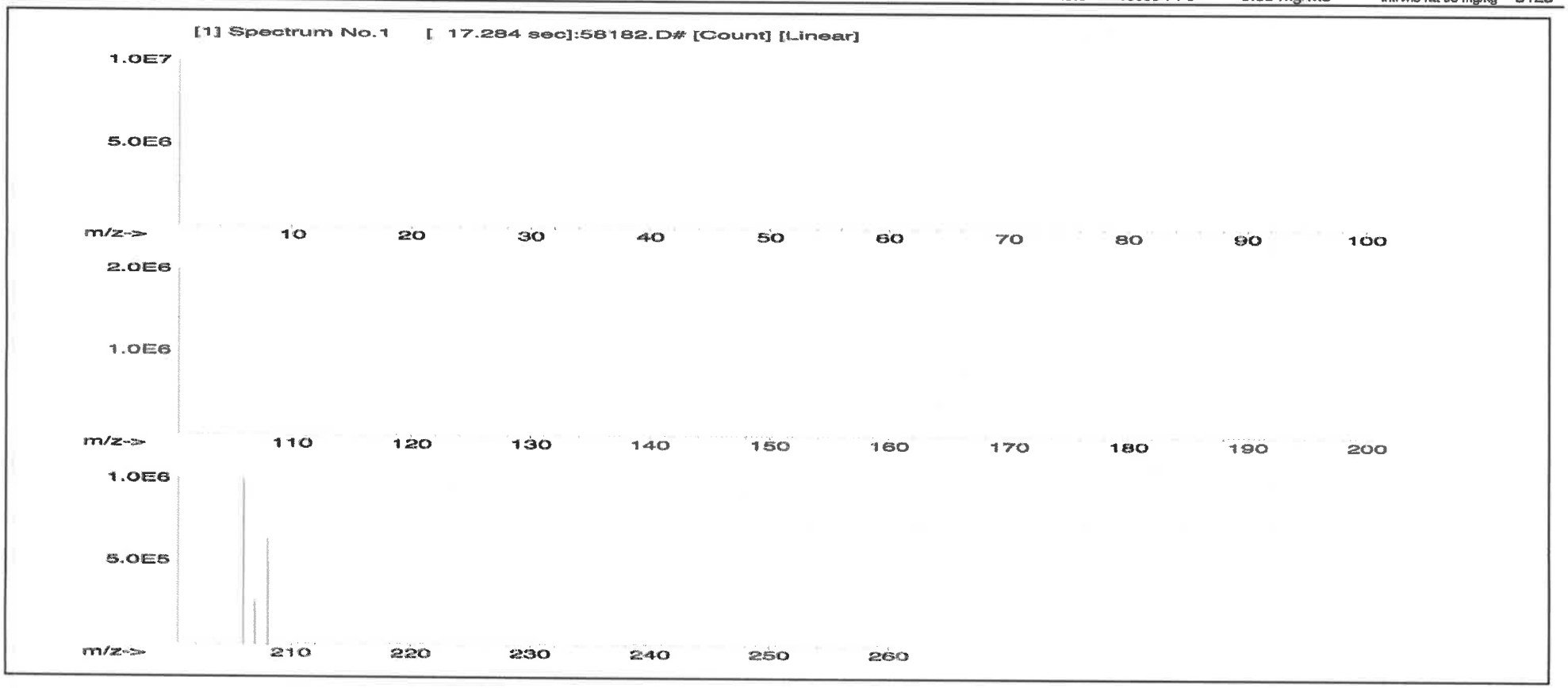
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

		Lot #	
Solvent:	24002546		Nitric Acid
	2%	40.0 (mL)	Nitric Acid

5E-05 Balance Uncertainty

Formulated By:	Lawence Barry	110923
Reviewed By:	Pedro L. Rentas	110923

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lead(II) nitrate (Pb)	IN029	PBD122016A1	10000	99.999	0.10	62.5	32.0006	32.0040	**10001.1**	**20.0**	10099-74-8	0.05 mg/m3	intrvns-rat 93 mg/kg	3128



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
"An ISO 9001:2015 Certified Program"

Instructions for QATS Reference Material: *ICP-AES ICS*

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix. **For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be,



Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for ICP-AES Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSA solution by ICP-AES.

ICSB-0710, Analytes, mixed with ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSAB solution by ICP-AES.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-AES ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-AES ICSA-1211, AND ICSA-1211 MIXED WITH ICSB-0710

Element	CRQL	Part A (µg/L)	Low Limit (µg/L)	High Limit (µg/L)	Part A +Part B (µg/L)	Low Limit (µg/L)	High Limit (µg/L)
Al	200	255000	216000	294000	247000	209000	285000
Sb	60	(0.0)	-60.0	60.0	618	525	711
As	10	(0.0)	-10.0	10.0	104	88.4	120
Ba	200	(6.0)	-194	206	(537)	337	737
Be	5.0	(0.0)	-5.0	5.0	495	420	570
Cd	5.0	(1.0)	-4.0	6.0	972	826	1120
Ca	5000	245000	208000	282000	235000	199000	271000
Cr	10	(52.0)	42.0	62.0	542	460	624
Co	50	(0.0)	-50.0	50.0	476	404	548
Cu	25	(2.0)	-23.0	27.0	511	434	588
Fe	100	101000	85600	116500	99300	84400	114500
Pb	10	(0.0)	-10.0	10.0	(49.0)	39.0	59.0
Mg	5000	255000	216000	294000	248000	210000	286000
Mn	15	(7.0)	-8.0	22.0	507	430	584
Ni	40	(2.0)	-38.0	42.0	954	810	1100
Se	35	(0.0)	-35.0	35.0	(46.0)	11.0	81.0
Ag	10	(0.0)	-10.0	10.0	201	170	232
Tl	25	(0.0)	-25.0	25.0	(108)	83.0	133
V	50	(0.0)	-50.0	50.0	491	417	565
Zn	60	(0.0)	-60.0	60.0	952	809	1095

ICSA M5126 M5127 M5128 M5129 M5130

ICSB M5219 M5220 M5221 M5222 M5223

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 1 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CHEM-QC-4
Lot Number:	S2-MEB711674
Matrix:	3% (v/v) HNO3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

Second Source: Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	**1 000 ± 7 µg/mL**	**Molybdenum, Mo**	**1 000 ± 5 µg/mL**
Silicon, Si	**1 000 ± 7 µg/mL**	**Tin, Sn**	**1 000 ± 5 µg/mL**
Titanium, Ti	**1 001 ± 6 µg/mL**		

Density: 1.032 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	110830
Mo	ICP Assay	3134	130418
Si	ICP Assay	3150	130912
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	3162a	130925

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 02, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 02, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director





QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
"An ISO 9001:2015 Certified Program"

Instructions for QATS Reference Material: *ICP-AES ICS*

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix. **For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be,



Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for ICP-AES Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSA solution by ICP-AES.

ICSB-0710, Analytes, mixed with ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSAB solution by ICP-AES.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-AES ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-AES ICSA-1211, AND ICSA-1211 MIXED WITH ICSB-0710

Element	CRQL	Part A (µg/L)	Low Limit (µg/L)	High Limit (µg/L)	Part A +Part B (µg/L)	Low Limit (µg/L)	High Limit (µg/L)
Al	200	255000	216000	294000	247000	209000	285000
Sb	60	(0.0)	-60.0	60.0	618	525	711
As	10	(0.0)	-10.0	10.0	104	88.4	120
Ba	200	(6.0)	-194	206	(537)	337	737
Be	5.0	(0.0)	-5.0	5.0	495	420	570
Cd	5.0	(1.0)	-4.0	6.0	972	826	1120
Ca	5000	245000	208000	282000	235000	199000	271000
Cr	10	(52.0)	42.0	62.0	542	460	624
Co	50	(0.0)	-50.0	50.0	476	404	548
Cu	25	(2.0)	-23.0	27.0	511	434	588
Fe	100	101000	85600	116500	99300	84400	114500
Pb	10	(0.0)	-10.0	10.0	(49.0)	39.0	59.0
Mg	5000	255000	216000	294000	248000	210000	286000
Mn	15	(7.0)	-8.0	22.0	507	430	584
Ni	40	(2.0)	-38.0	42.0	954	810	1100
Se	35	(0.0)	-35.0	35.0	(46.0)	11.0	81.0
Ag	10	(0.0)	-10.0	10.0	201	170	232
Tl	25	(0.0)	-25.0	25.0	(108)	83.0	133
V	50	(0.0)	-50.0	50.0	491	417	565
Zn	60	(0.0)	-60.0	60.0	952	809	1095

ICSA M5126 M5127 M5128 M5129 M5130

ICSB M5219 M5220 M5221 M5222 M5223

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 1 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

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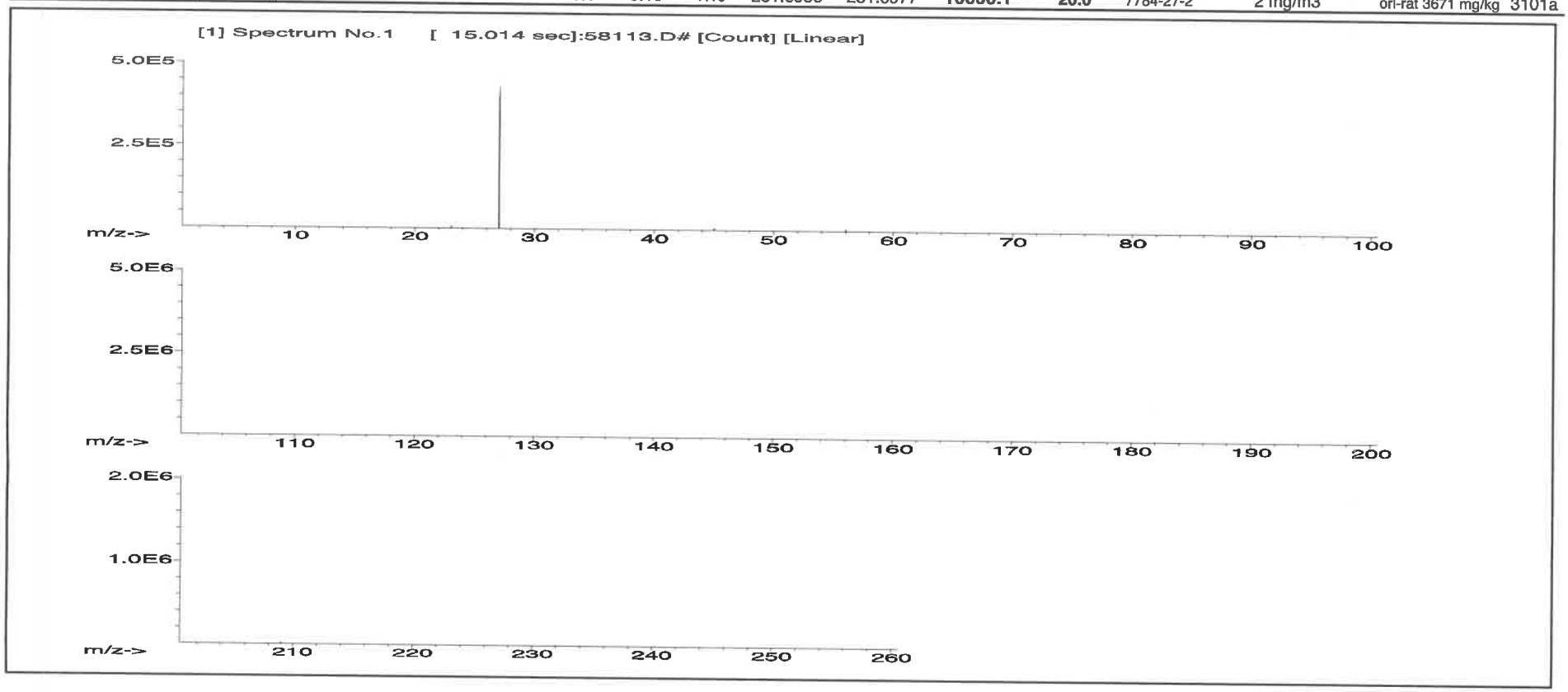
612

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

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616

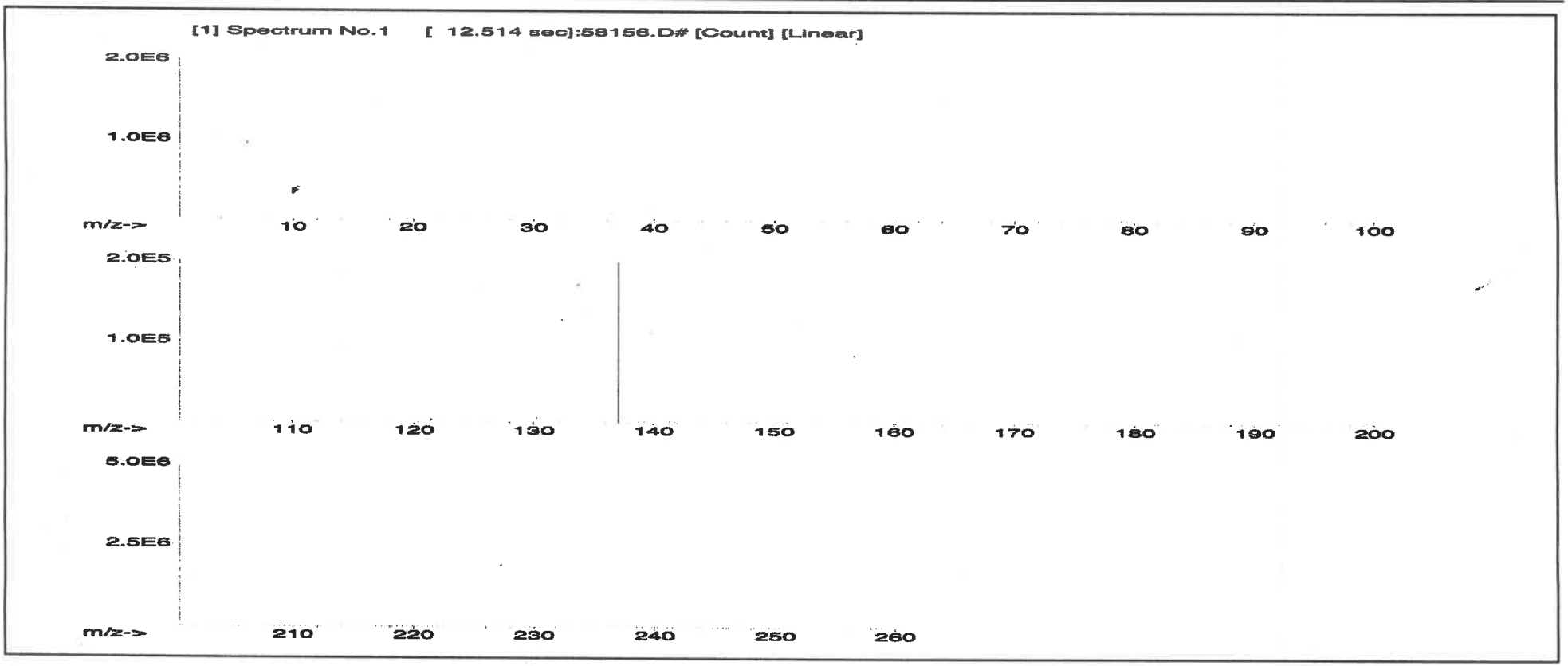
CERTIFIED WEIGHT REPORT:

Part Number:	**57056**		**Lot #**		
Lot Number:	**072122**	**Solvent:**	20510011	Nitric Acid	
Description:	**Barium (Ba)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	072125				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Giovanni Esposito

Formulated By:	Giovanni Esposito	072122
Reviewed By:	Pedro L. Rentas	072122

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Barium nitrate (Ba)	IN023	BAD022019A1	1000	99.999	0.10	52.3	3.82417	3.82426	**1000.0**	**2.0**	10022-31-8	0.5 mg/m3	orl-rat 355 mg/kg	3104a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	T	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFIED WEIGHT REPORT:

Part Number: 57103
Lot Number: 070622
Description: Lithium (Li)

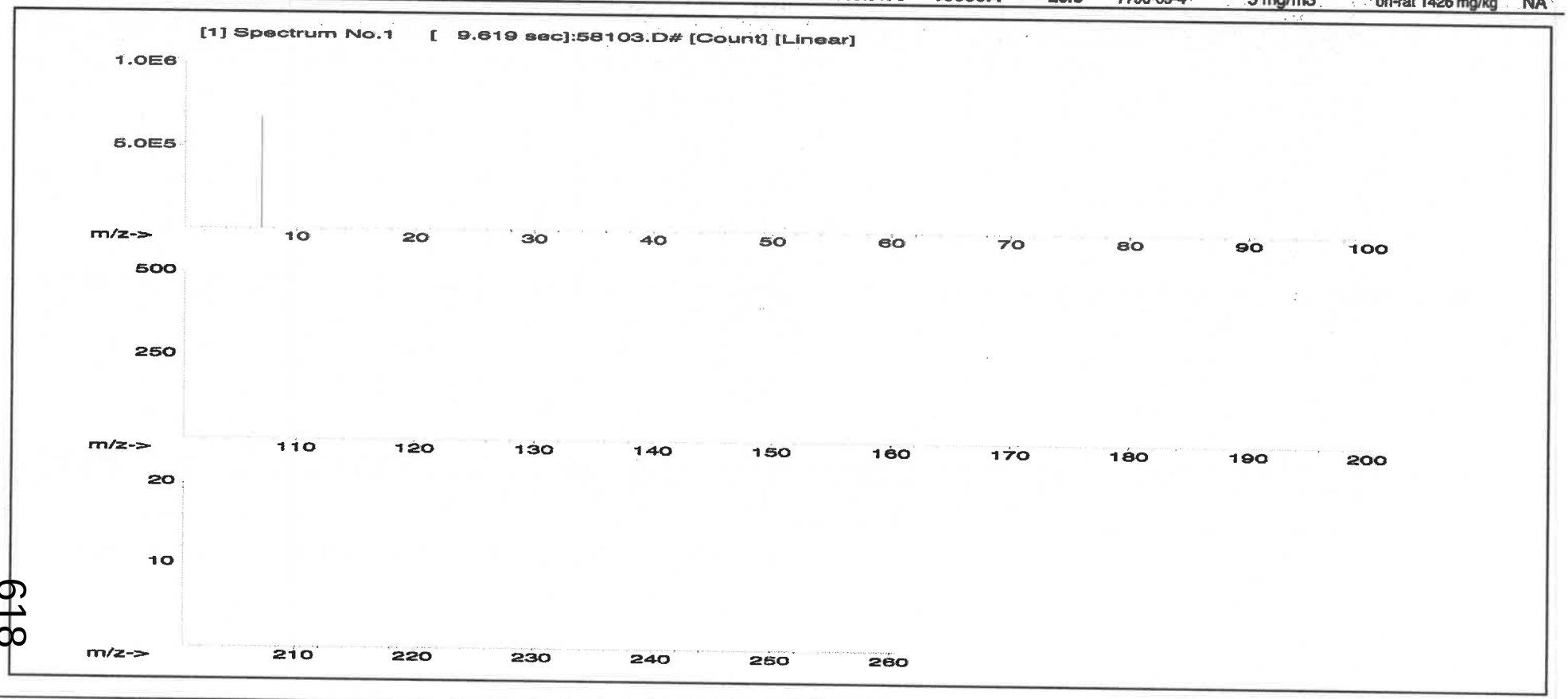
Expiration Date: 070625
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1000.12

	Lot #		
Solvent:	20510011	Nitric Acid	
2%	20.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	070622
Reviewed By:	Pedro L. Rentas	070622

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lithium nitrate (Li)	IN019	LIZ042018A1	10000	99.999	0.10	10.0	100.0134	100.0173	**10000.4**	**20.0**	7790-69-4	5 mg/m3	orl-rat 1426 mg/kg	NA



618

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).

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CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 031523
Description: Calcium (Ca)

Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41 0.058 Flask Uncertainty

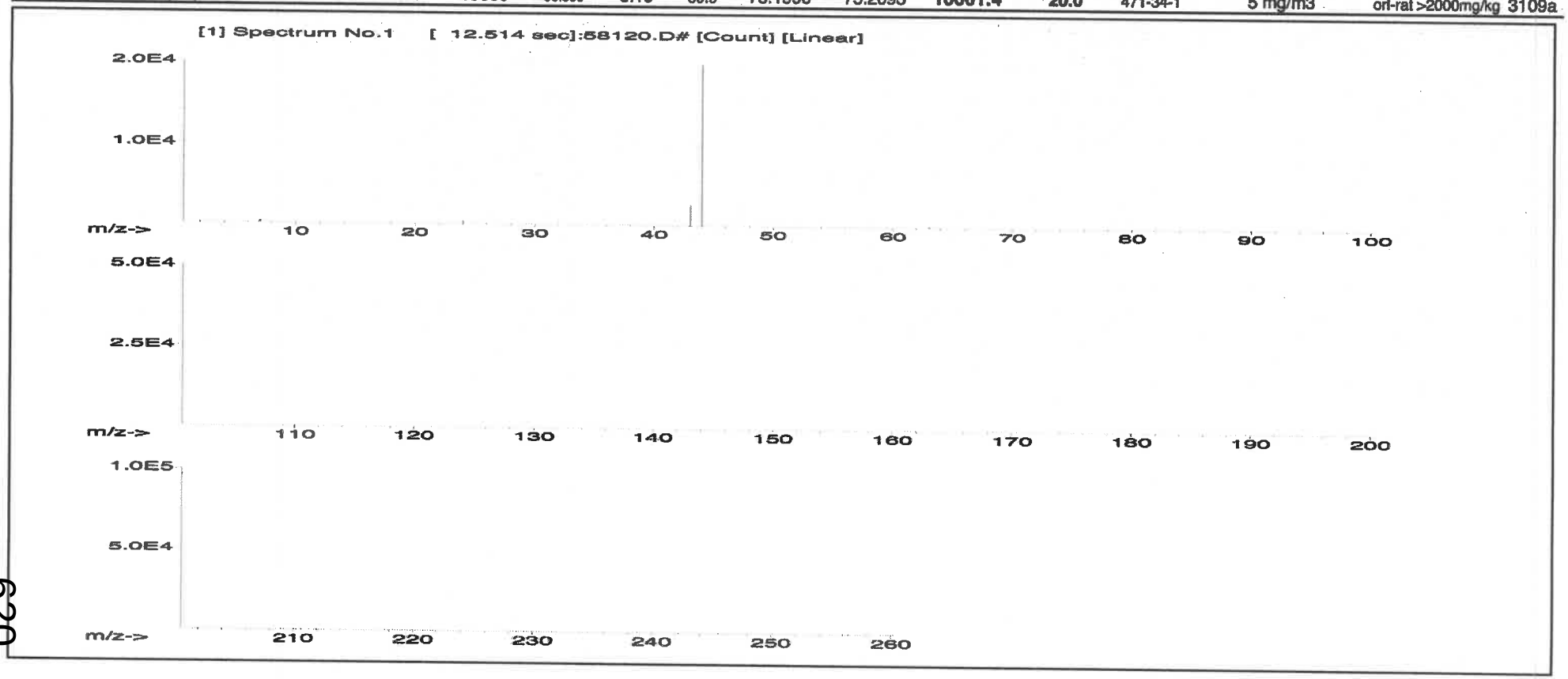
	Lot #		
Solvent:	21110221	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	031523
Reviewed By:	Pedro L. Rentas	031523

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Calcium carbonate (Ca)	IN014	CAD072022A1	10000	99.999	0.10	39.9	75.1990	75.2093	**10001.4**	**20.0**	471-34-1	5 mg/m3	orl-rat >2000mg/kg	3109a



620

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	T	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5497 - M5498 R: 03/17/23 BH

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CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 031523
Description: Calcium (Ca)

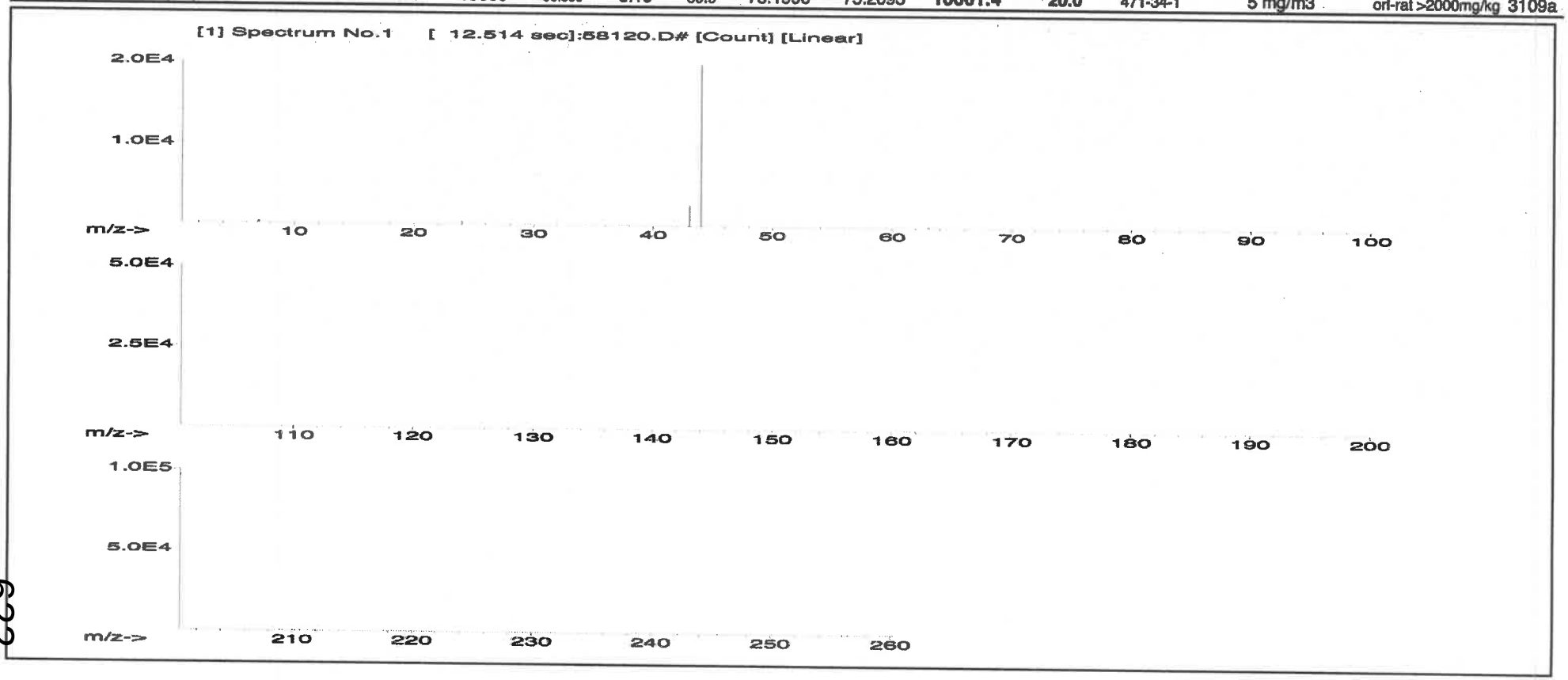
Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41 ± 0.058 Flask Uncertainty

	Lot #		
Solvent:	21110221	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	
		5E-05	Balance Uncertainty

Giovanni Esposito
Formulated By: Giovanni Esposito 031523

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



622

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	T	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFIED 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

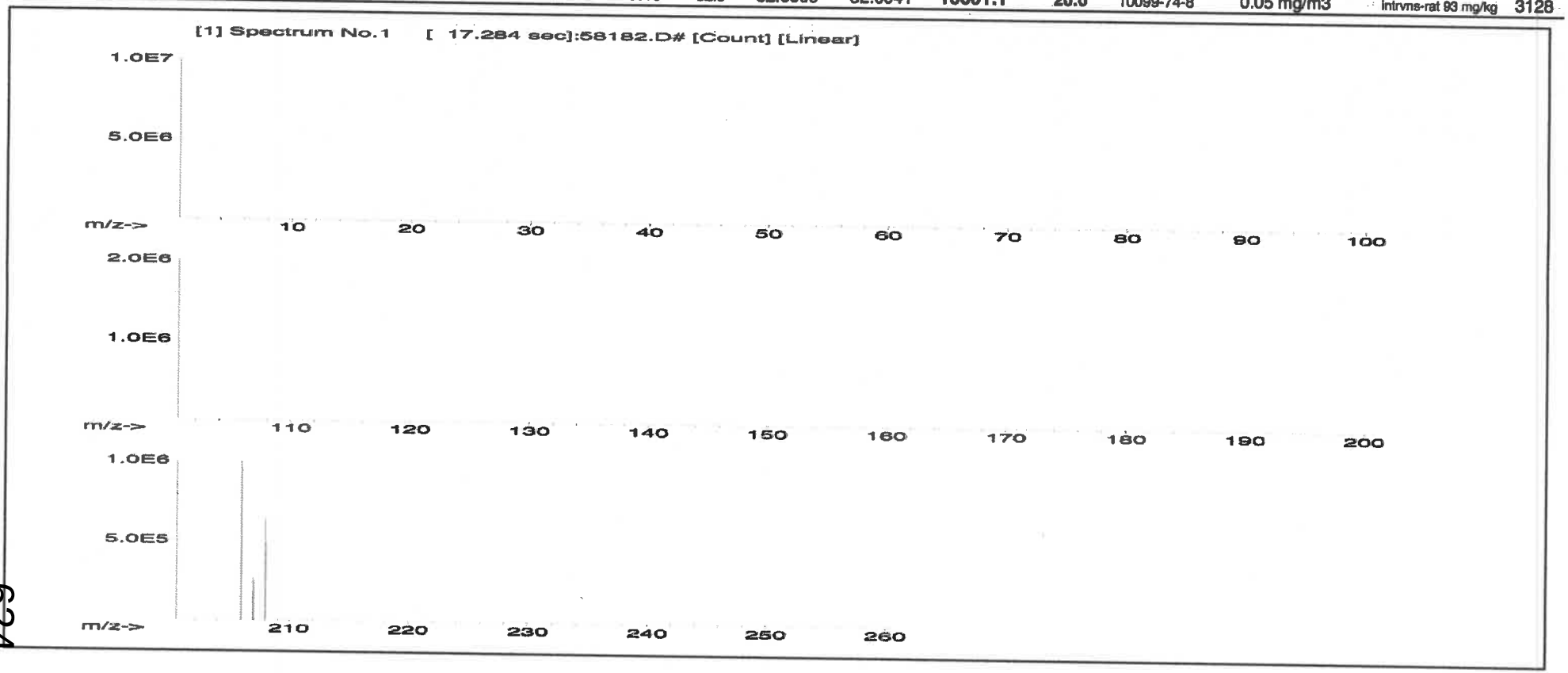
	Lot #		
Solvent:	20510011	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

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



624

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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626

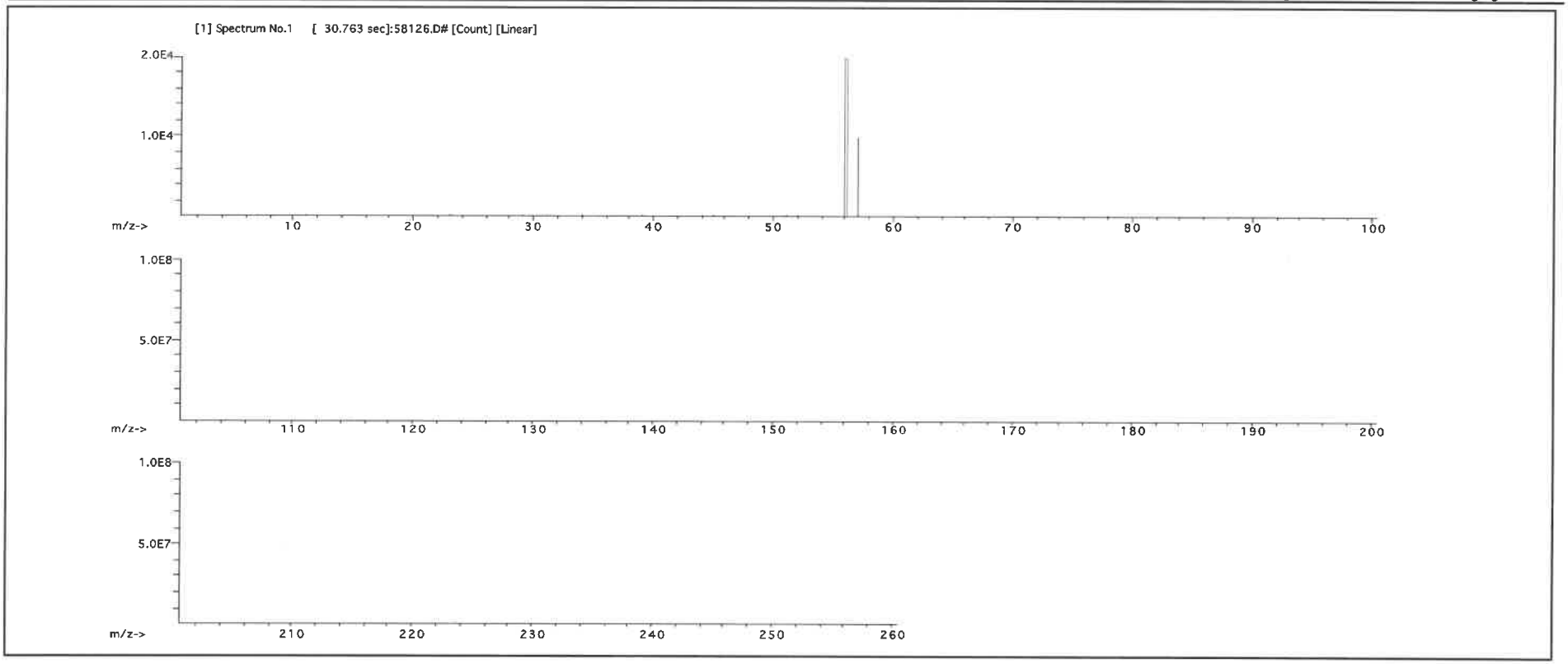
CERTIFIED WEIGHT REPORT:

Part Number:	**58126**		**Lot #**		
Lot Number:	**092122**		**Solvent:**	20510011	Nitric Acid
Description:	**Iron (Fe)**		7.0%	350.0 (mL)	Nitric Acid
Expiration Date:	092125				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	5000.1	0.12	Flask Uncertainty		

Giovanni Esposito

Formulated By:	Giovanni Esposito	092122
Reviewed By:	Pedro L. Rentas	092122

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Iron (Fe)	IN346	2224912-500	10000	99.995	0.10	100.0	50.0034	50.0111	**10001.5**	**20.0**	7439-89-6	5 mg/m3	orl-rat 7500mg/kg	3126a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.10	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.10	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.05	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.10	Ge	<0.10	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.05
B	<0.02	Cu	<0.10	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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628

CERTIFIED WEIGHT REPORT:

Part Number: 58119
Lot Number: 120822
Description: Potassium (K)

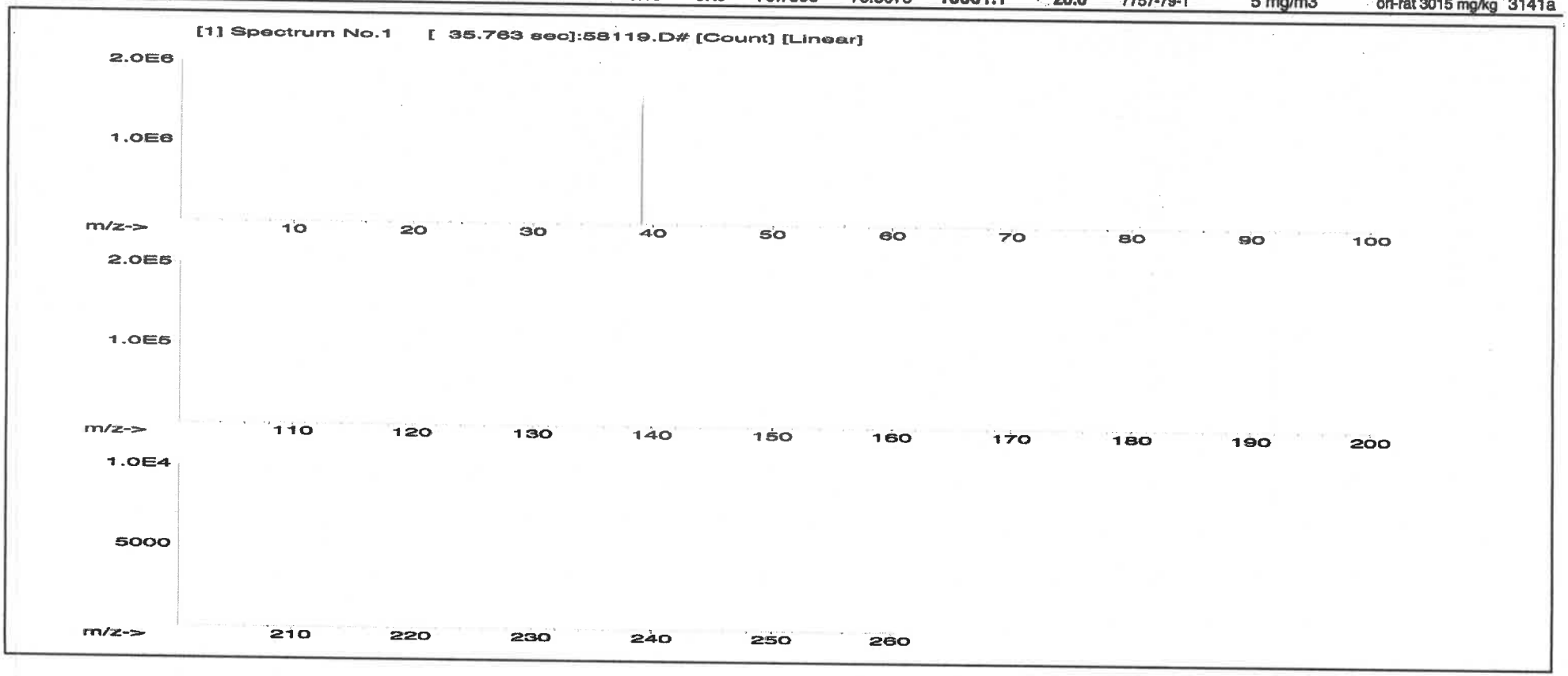
Expiration Date: 120825
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.4

	Lot #		
Solvent:	20510011	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.06	Flask Uncertainty	

Giovanni Esposito
Formulated By: Giovanni Esposito 120822

Pedro Rentas
Reviewed By: Pedro L. Rentas 120822

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium nitrate (K)	IN034	KD022021A1	10000	99.999	0.10	37.6	79.7990	79.8075	**10001.1**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3015 mg/kg	3141a



629

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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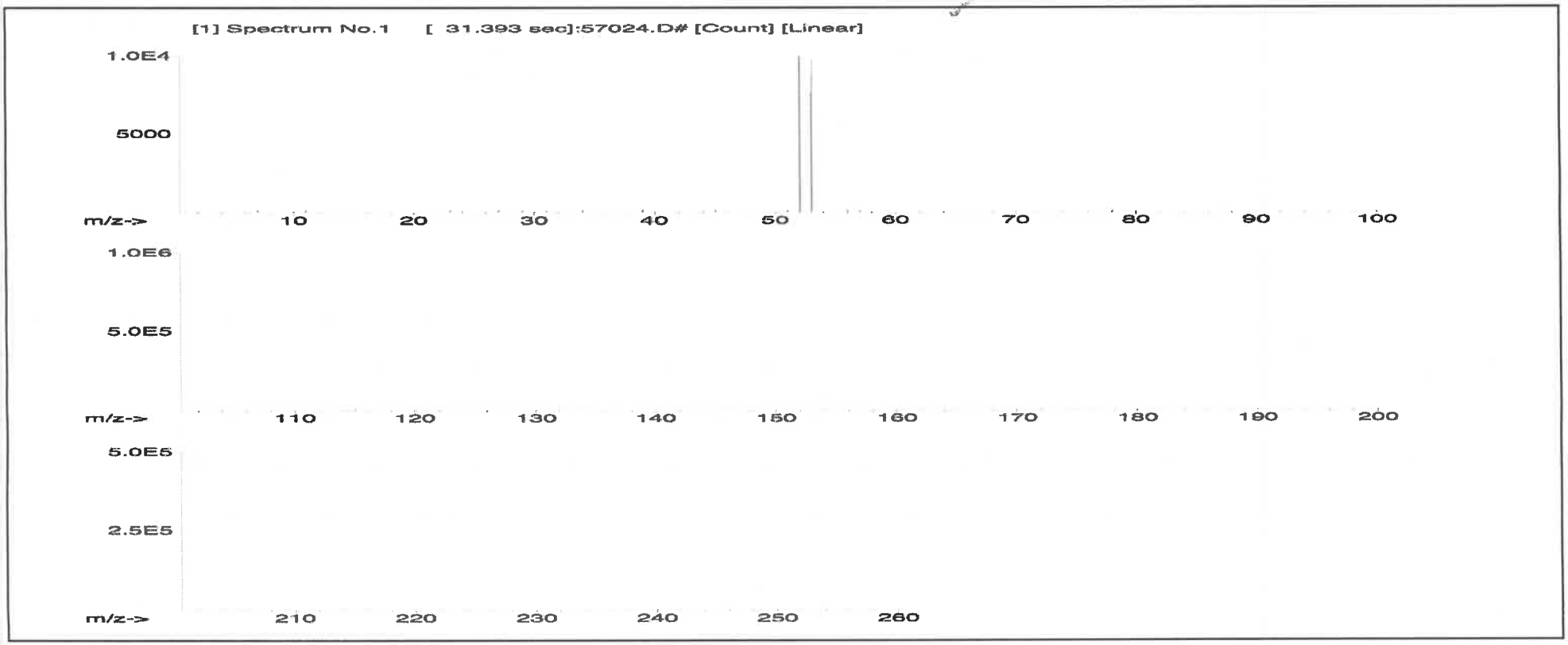
630

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



631

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	T	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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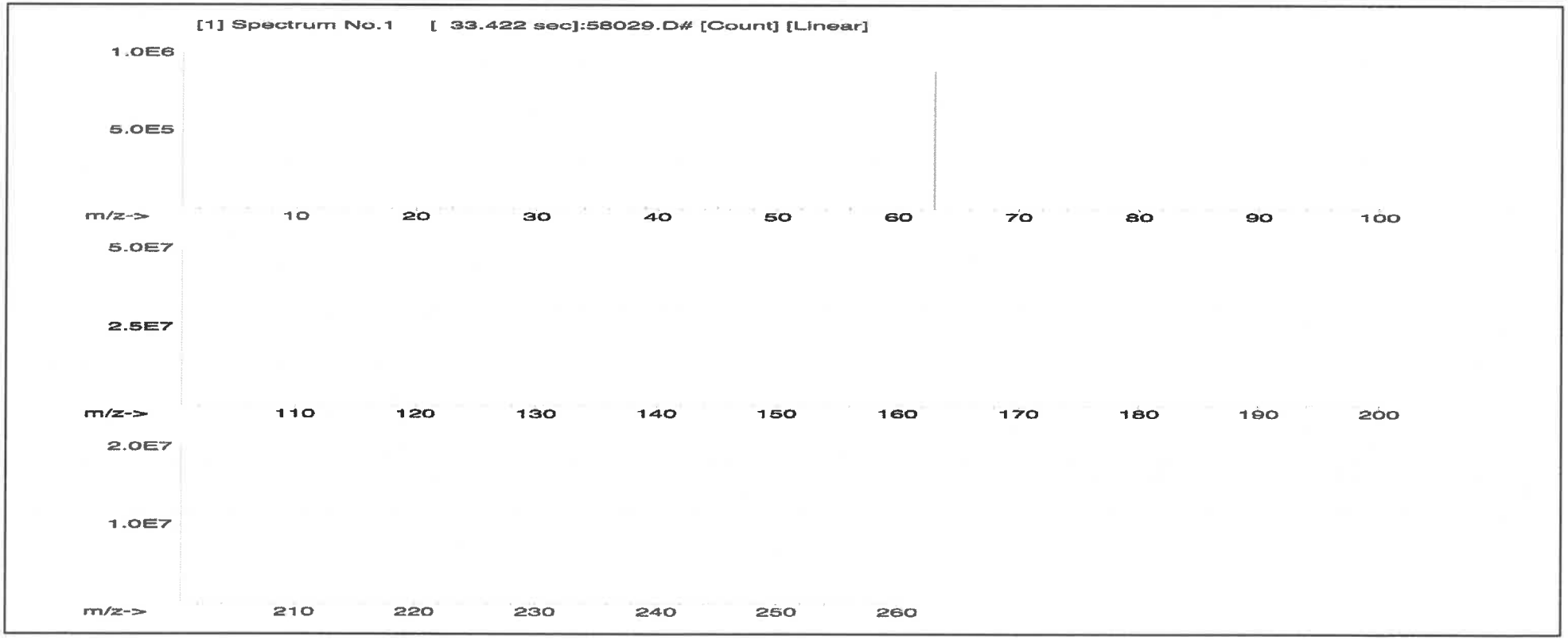
632

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



633

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:

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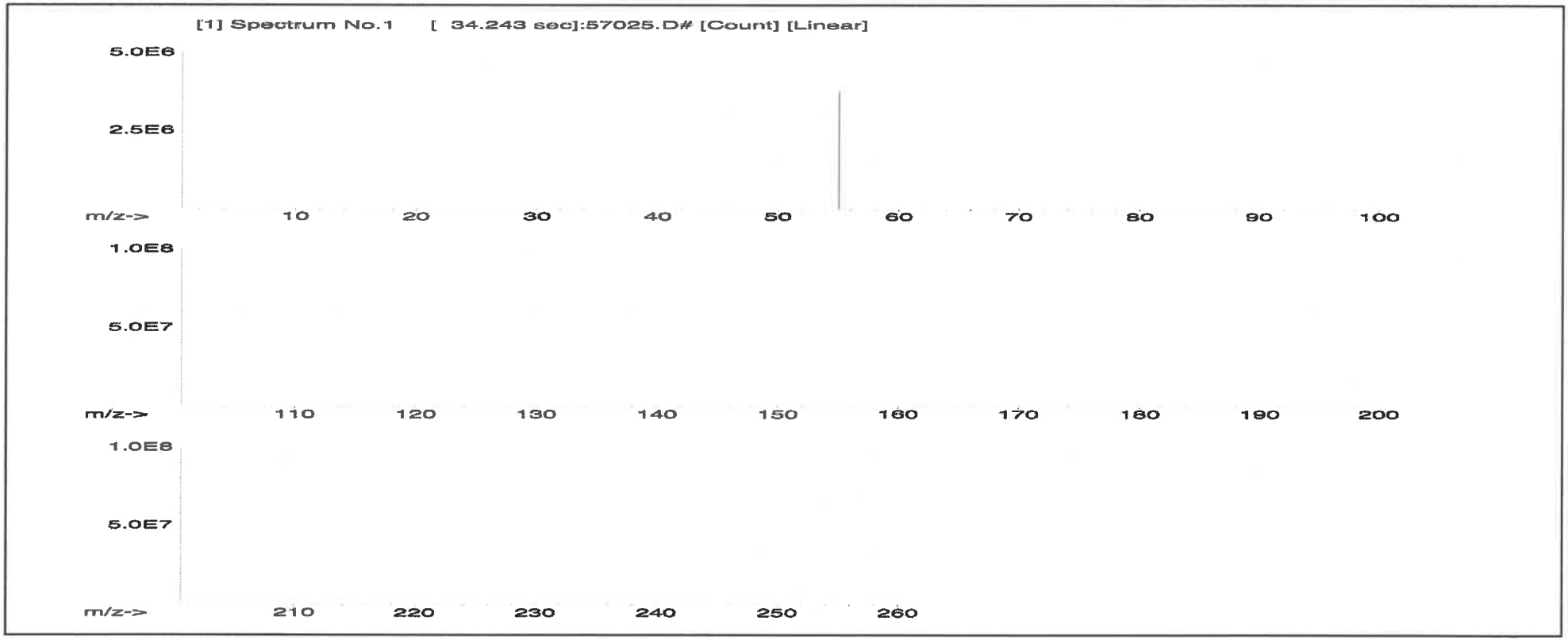
634

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



635

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	T	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5768 M5769 (BP) R:1/3/24

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636

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

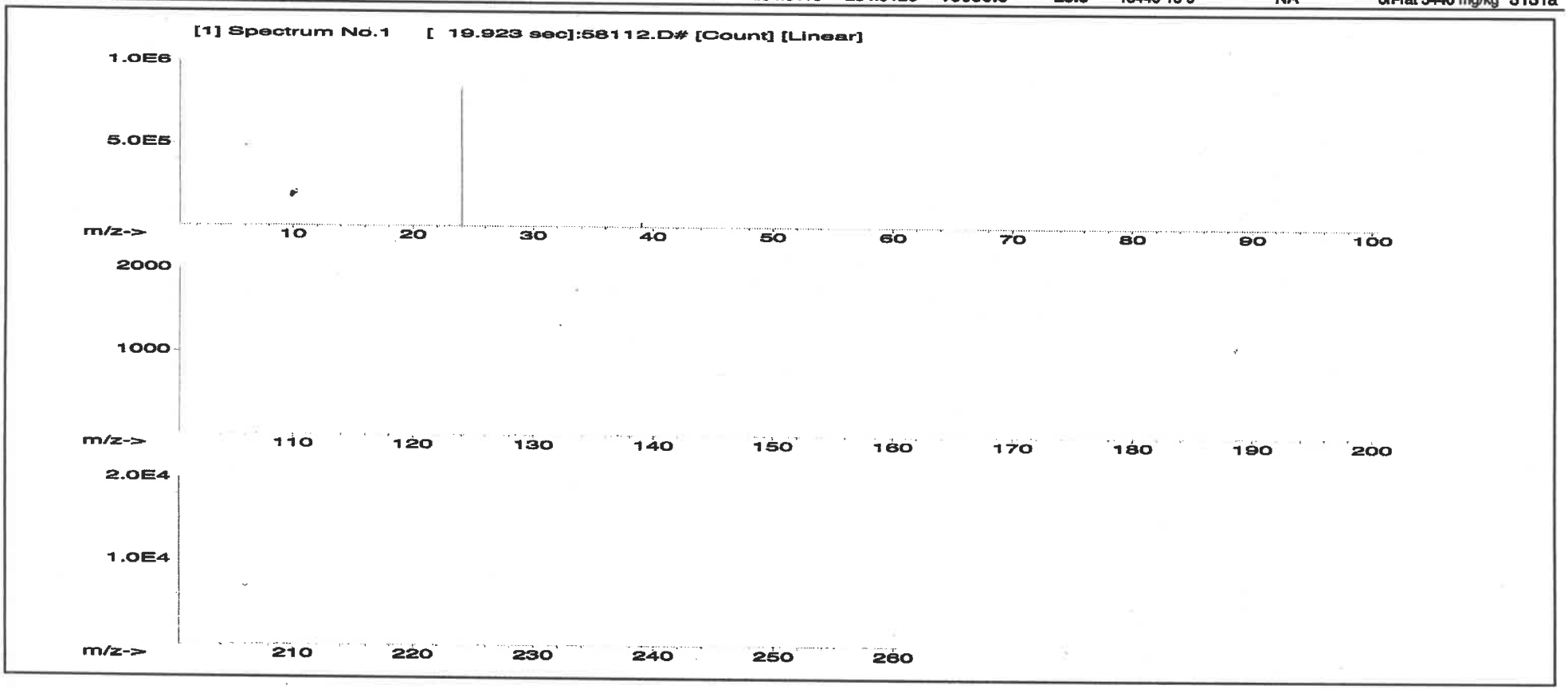
		Lot #	
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

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



637

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	T	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5768 M5769 (BP) R:1/3/24

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638

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

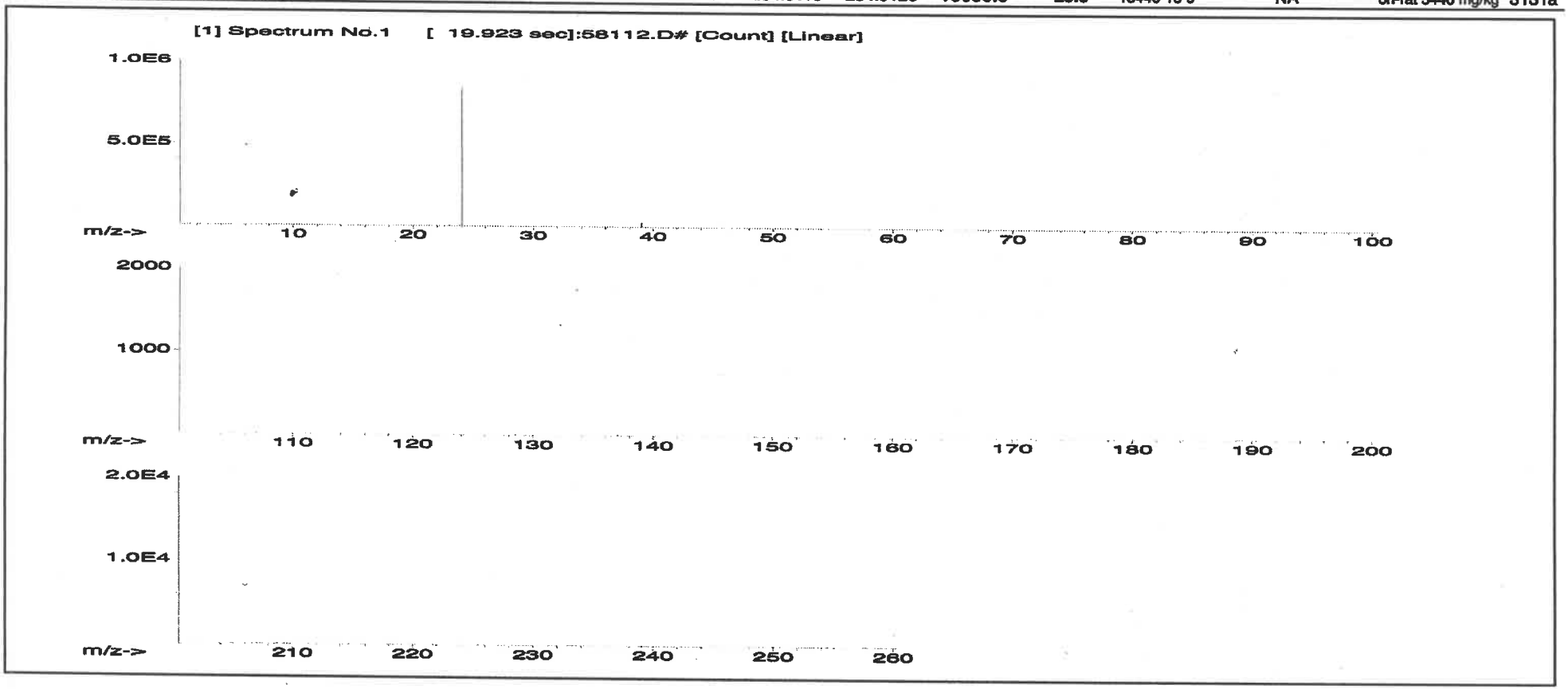
5E-05 Balance Uncertainty

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



639

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.

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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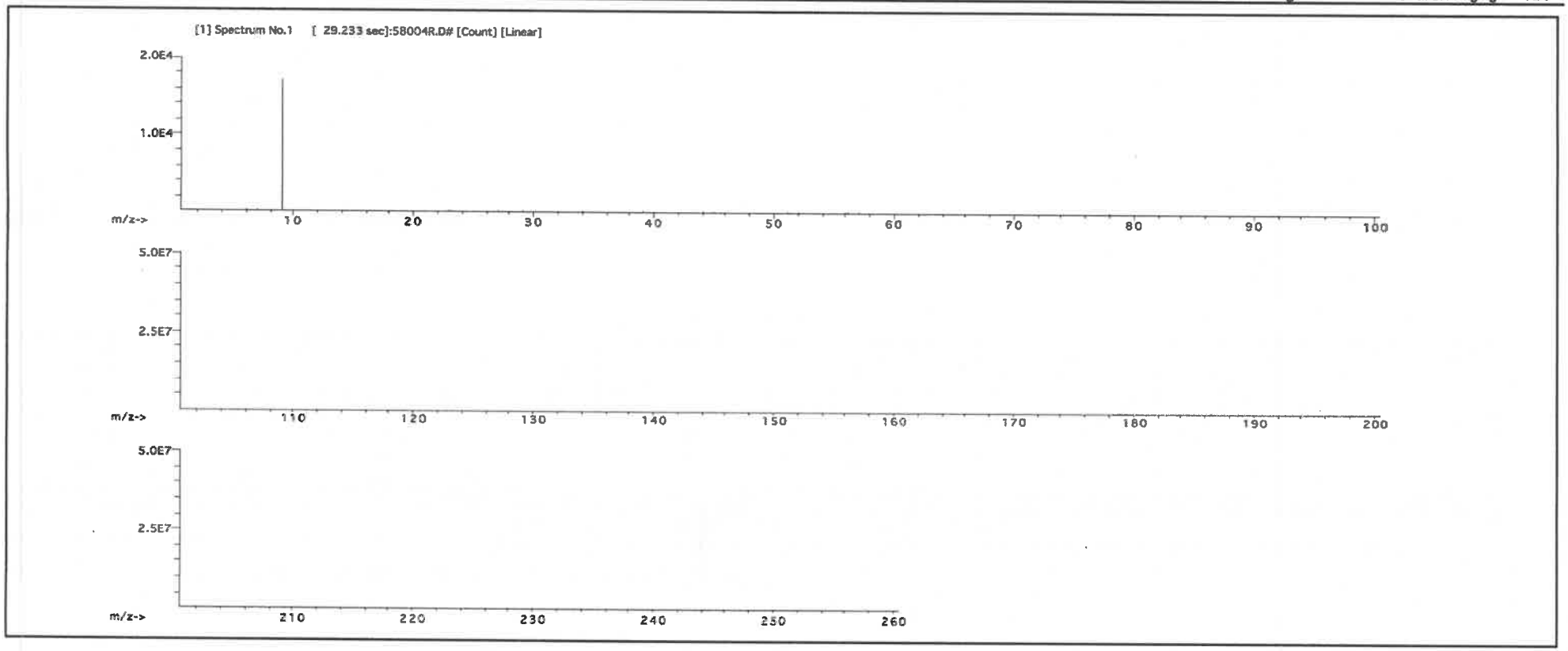
640

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57004**	24002546	Nitric Acid	
Lot Number:	**102523**			
Description:	**Beryllium (Be)**	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	102526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	102523
Reviewed By:	Pedro L. Rentas	102523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Beryllium nitrate (Be)	58104	091423	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	13597-99-4	0.2ug/m3	intrvns-rat 3.16mg/kg	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	T	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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642

CERTIFIED WEIGHT REPORT:

Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

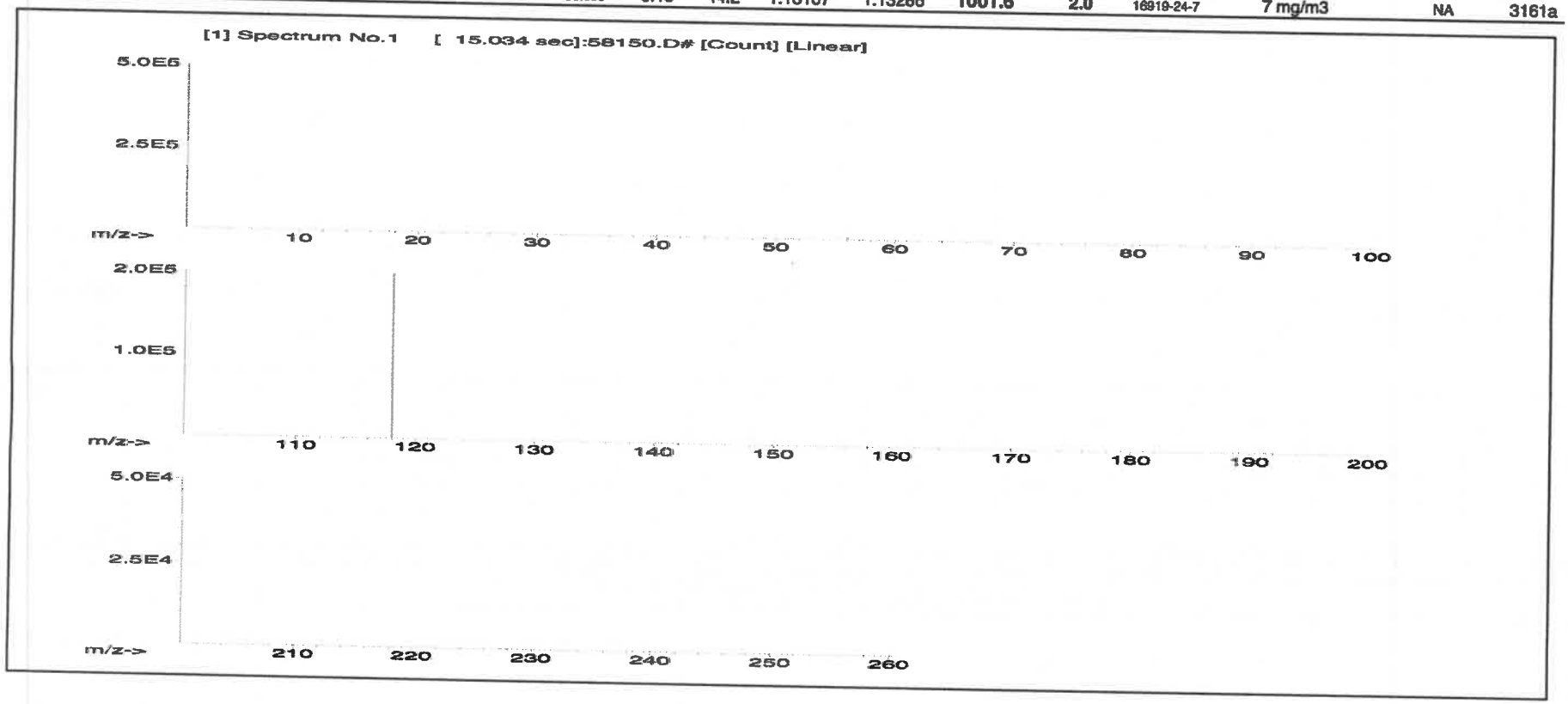
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	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



643

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.
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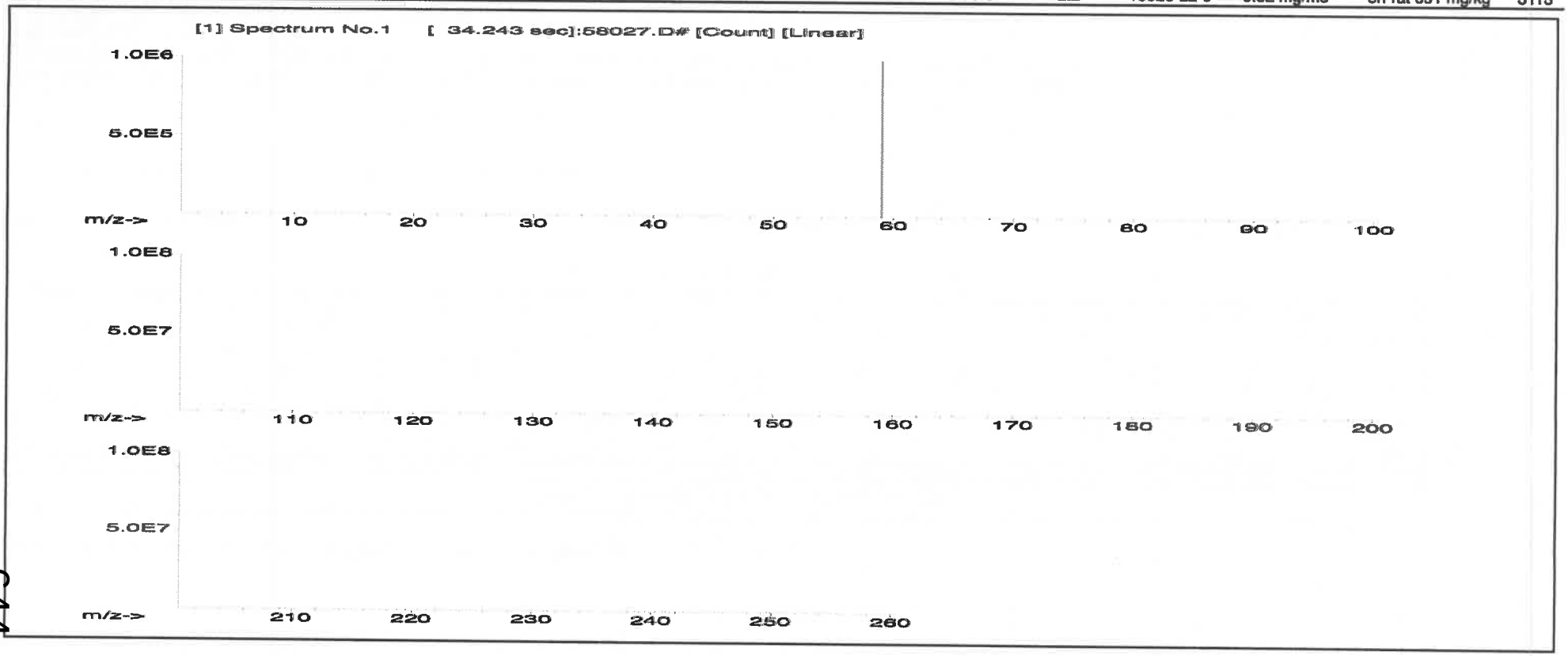
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57027**	24002546	Nitric Acid		
Lot Number:	**091923**				
Description:	**Cobalt (Co)**	2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	091926				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By: Lawrence Barry 091923

Reviewed By: Pedro L. Rentas 091923

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cobalt(II) nitrate hexahydrate (Co)	58127	050923	0.1000	200.0	0.084	1000	10000.0	**1000.0**	**2.2**	10026-22-9	0.02 mg/m3	orl-rat 691 mg/kg	3113



644

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.
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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

645

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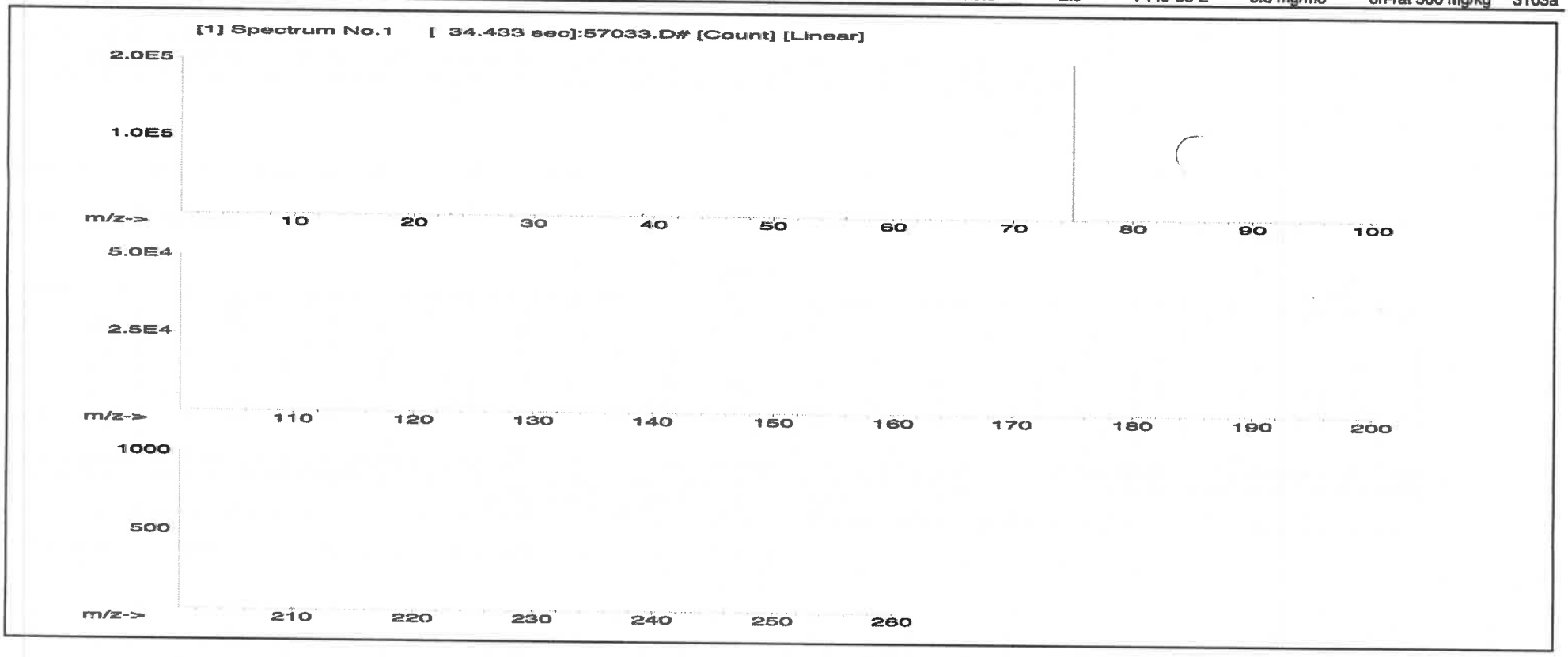
646

CERTIFIED **WEIGHT** REPORT:

		Lot #	Solvent:		
Part Number:	**57033**				
Lot Number:	**111323**	24002546	Nitric Acid		
Description:	**Arsenic (As)**				
		2.0%	80.0 (mL)	Nitric Acid	
Expiration Date:	111326				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty		

Formulated By:	Lawrence Barry	111323
Reviewed By:	Pedro L. Rentas	111323

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Arsenic (As)	58133	020522	0.1000	400.0	0.084	1000	10001.0	**1000.0**	**2.0**	7440-38-2	0.5 mg/m3	orl-rat 500 mg/kg	3103a



647

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.
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* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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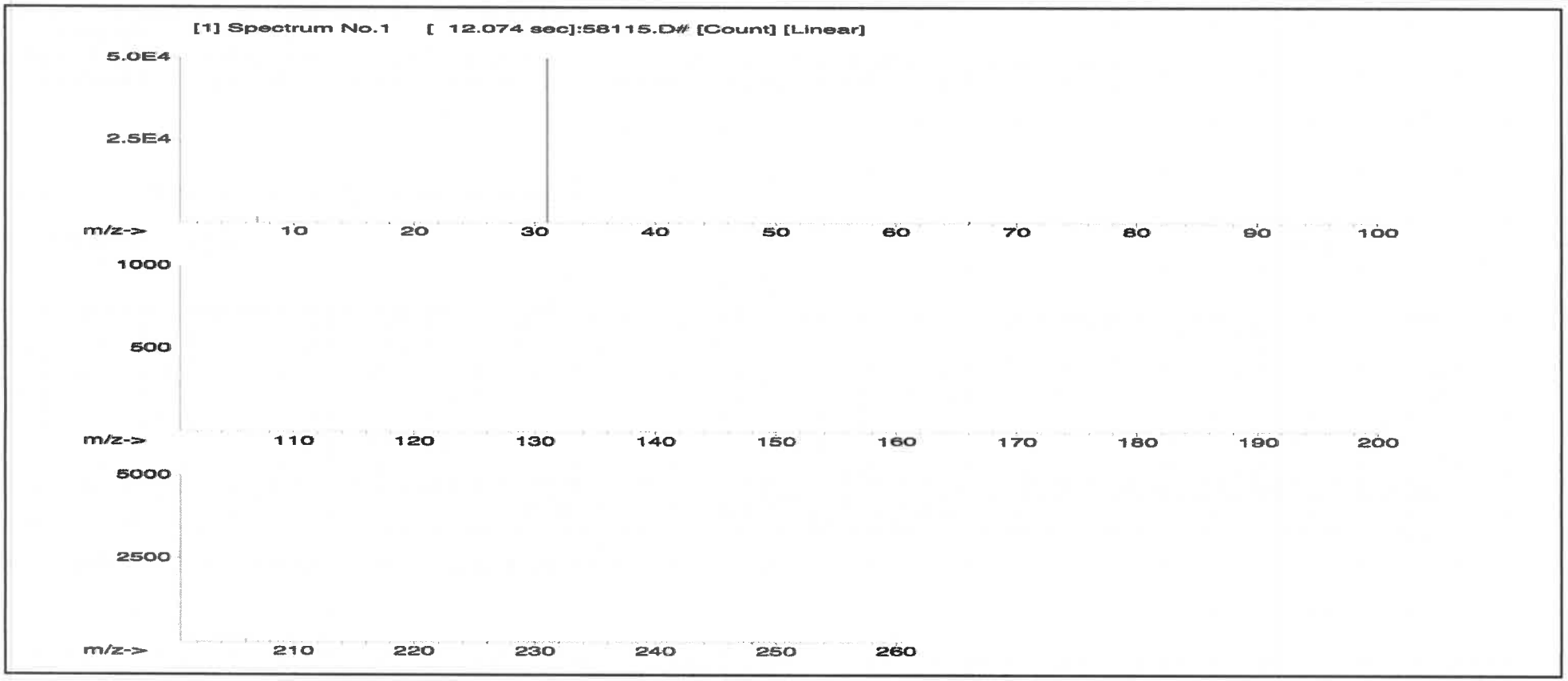
CERTIFIED WEIGHT REPORT:

			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

648

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV082019A1	10000	99.999	0.10	27.5	72.7287	72.7289	**10000.0**	**20.0**	7722-76-1	5 mg/m3	orl-rat >2000mg/kg	3186



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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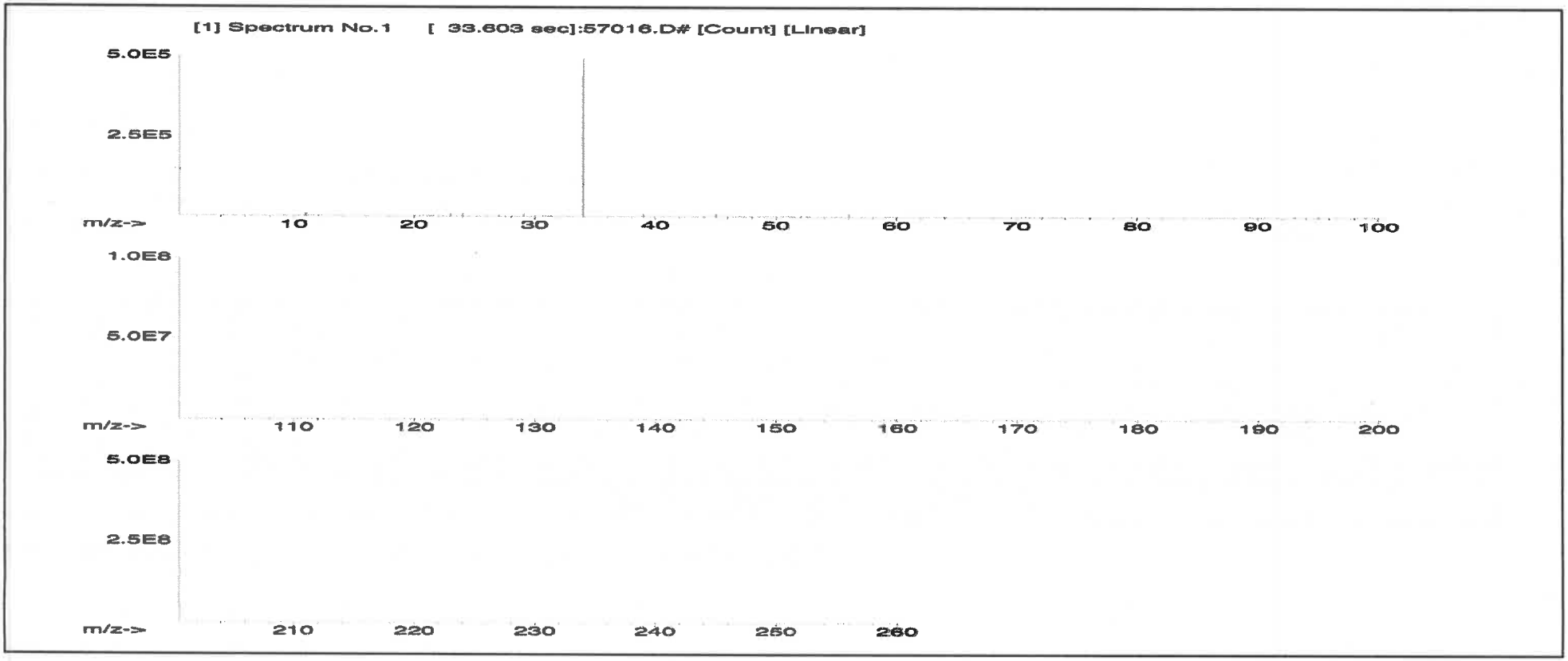
650

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



651

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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652

CERTIFIED WEIGHT REPORT:

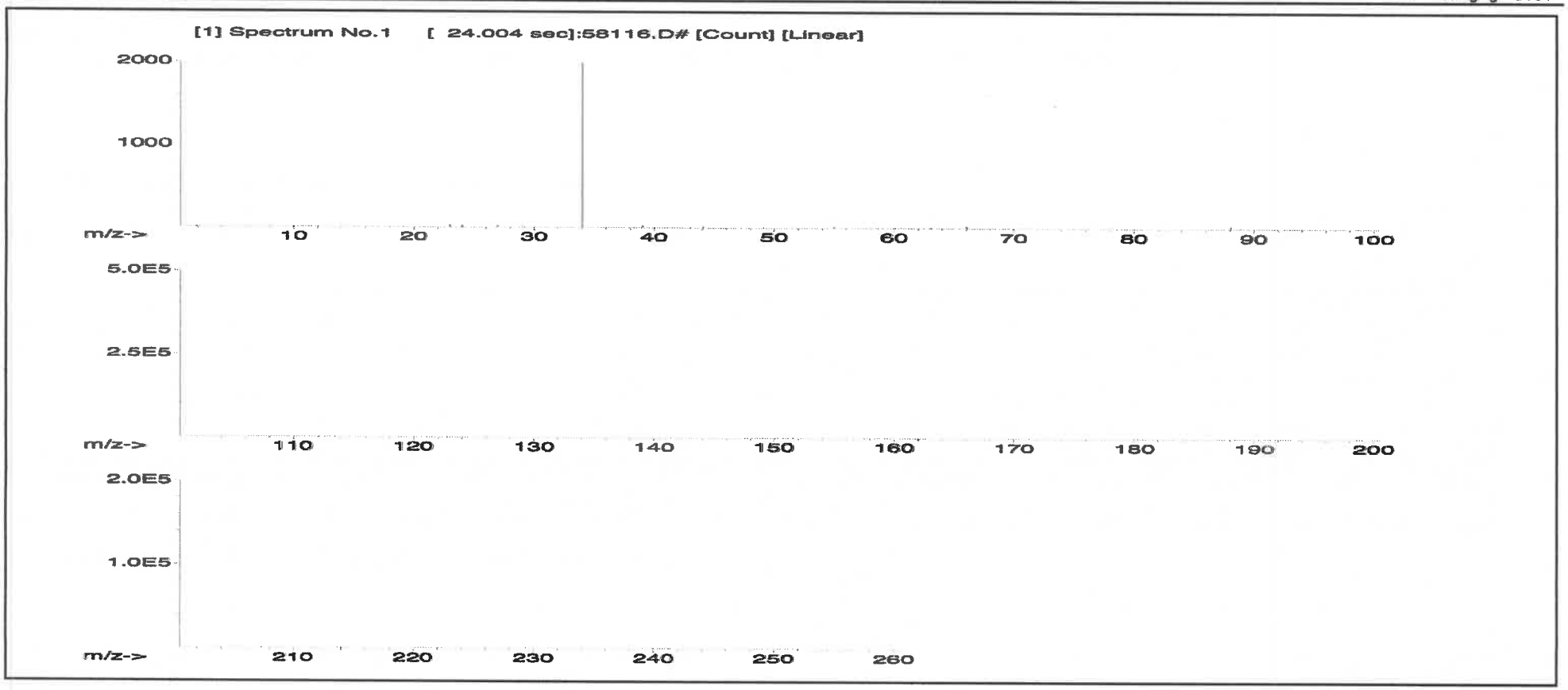
Part Number: 57116
Lot Number: 071123
Description: Sulfur (S)

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



653

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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R: 02/09/24 M.5818

Lot #

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654

CERTIFIED WEIGHT REPORT:

Part Number: 57014
Lot Number: 122023
Description: Silicon (Si)

Expiration Date: 122026
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

Weight shown below was diluted to (mL): 1999.48 0.058 Flask Uncertainty

Solvent: 24002546 Nitric Acid

2% 40.0 (mL) Nitric Acid

5E-05 Balance Uncertainty

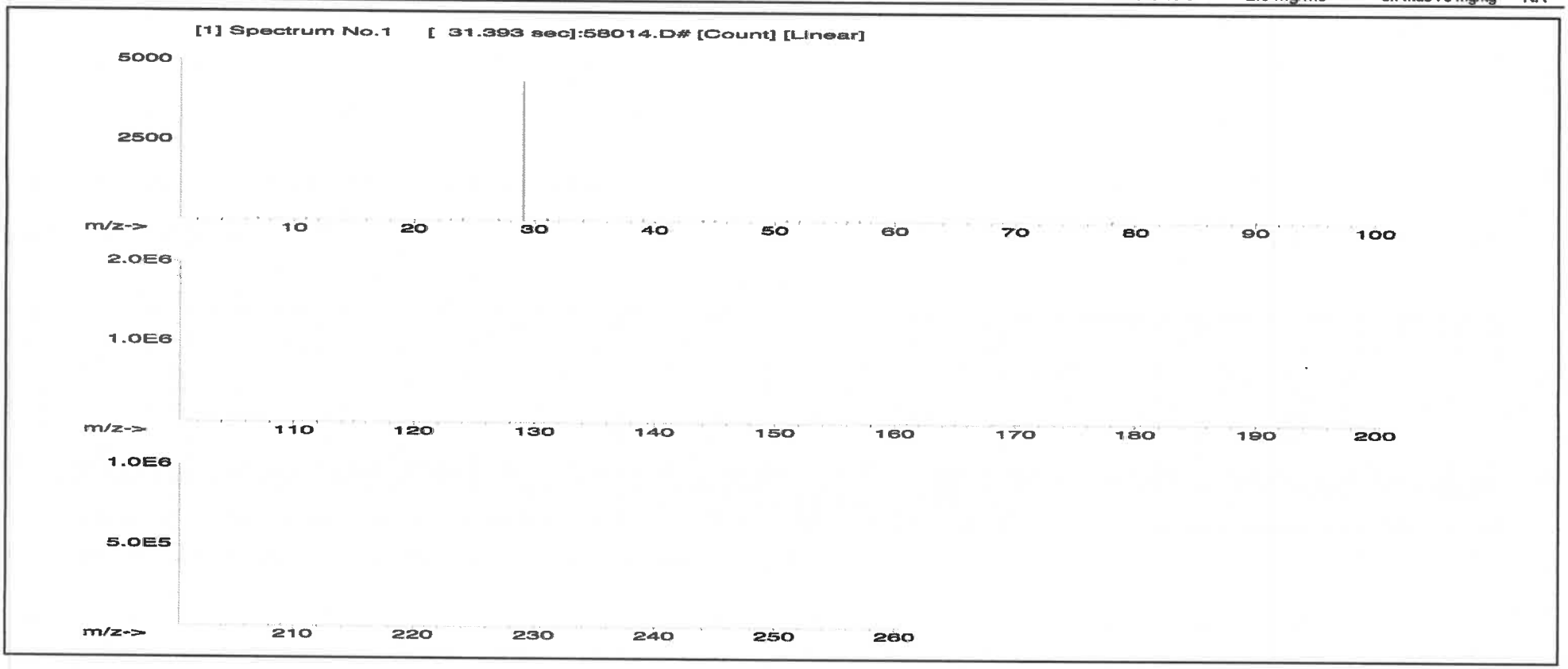
Aleah O'Brady

Formulated By: Aleah O'Brady 122023

Pedro Rentas

Reviewed By: Pedro L. Rentas 122023

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorosilicate (Si)	IN009	SID082022A1	1000	99.999	0.10	14.4	13.8854	13.8855	**1000.0**	**2.0**	16919-19-0	2.5 mg/m3	orl-mus 70 mg/kg	NA



655

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:

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659

CERTIFIED WEIGHT REPORT:

Part Number: 58030
Lot Number: 111623
Description: Zinc (Zn)

Expiration Date: 111626
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

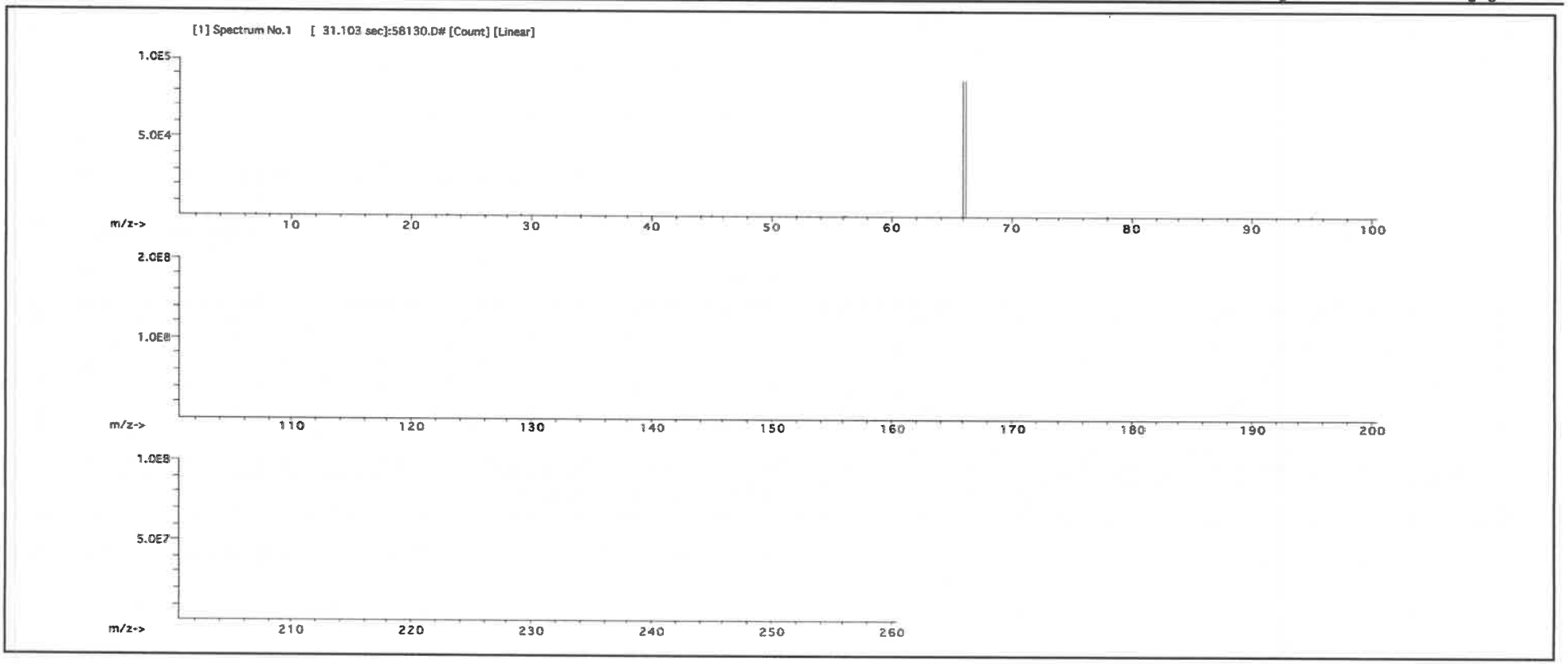
Weight shown below was diluted to (mL): 3000.4 0.06 Flask Uncertainty

		Lot #	
Solvent:	24002546	Nitric Acid	
	2%	60.0 (mL)	Nitric Acid

5E-05 Balance Uncertainty

Formulated By:	Benson Chan	111623
Reviewed By:	Pedro L. Rentas	111623

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Zinc nitrate hexahydrate (Zn)	IN016	ZNE032021A1	1000	99.999	0.10	24.3	12.3475	12.3502	**1000.2**	**2.0**	10196-18-6	1 mg/m3	orl-rat 1190mg/kg	3168



657

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).

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R: 02/09/24 M5820

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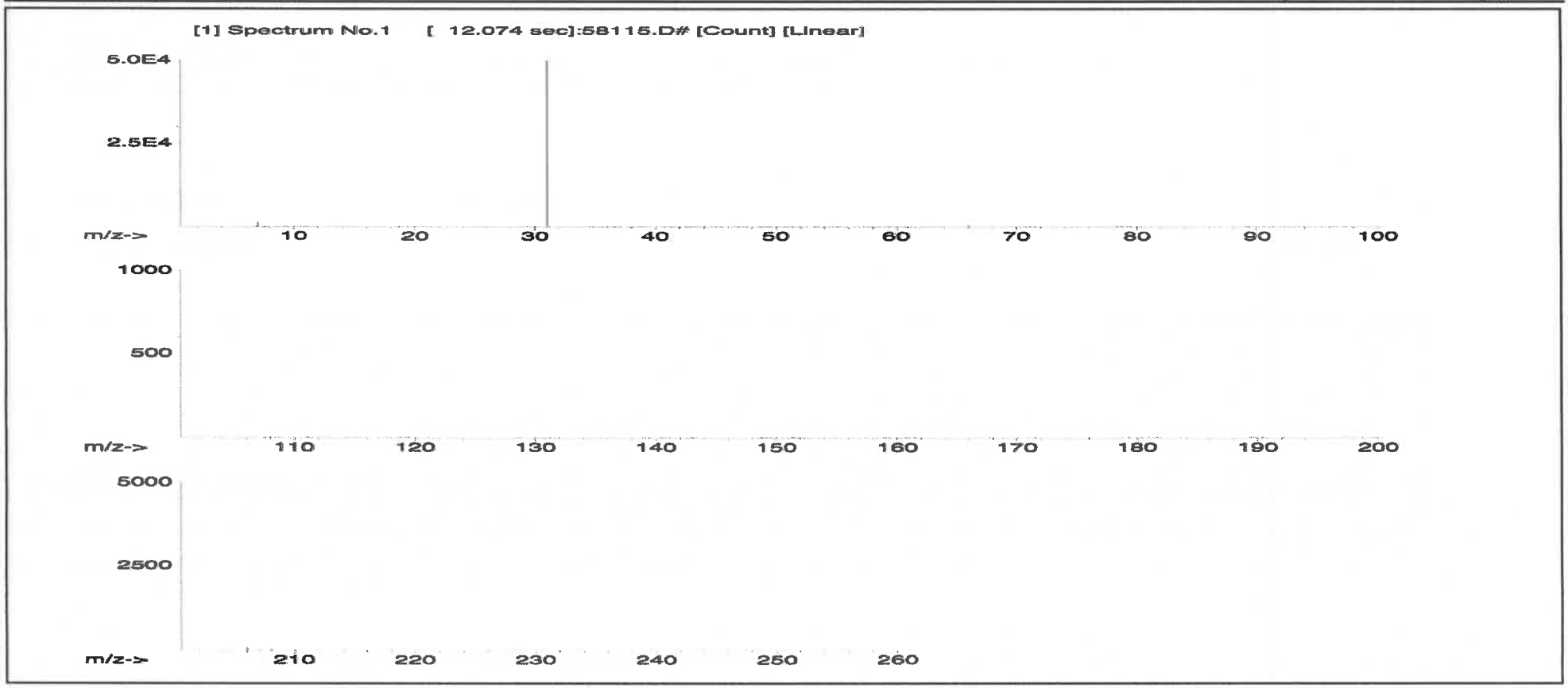
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CERTIFIED WEIGHT REPORT:

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	rl-rat >2000mg/k	3186



659

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 863.01
ACCREDITED Reference Material Producer Certificate 863.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGY10
Lot Number:	V2-Y740548
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Yttrium
Starting Material:	Yttrium Oxide
Starting Material Lot#:	2661 and 06230520YL
Starting Material Purity:	99.9984%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10000 ± 30 µg/mL

Density: 1.032 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**10011 ± 25 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #2	**9997 ± 50 µg/mL** ICP Assay NIST SRM 3167a Lot Number: 190730
Assay Method #3	**9984 ± 31 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

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Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.004600	M	Eu		0.009037	M	Na		0.086360	M	Se	<	0.005200	M	Zn		0.030125
M	Al		0.014862	O	Fe		0.002410	M	Nb	<	0.000570	O	Si		0.024100	O	Zr	<	0.002600
M	As	<	0.003500	M	Ga	<	0.000570	M	Nd		0.000923	M	Sm		0.000461				
M	Au	<	0.001700	M	Gd	<	0.003500	M	Ni	<	0.005700	M	Sn	<	0.002300				
O	B		0.002209	M	Ge	<	0.005200	M	Os	<	0.001200	M	Sr	<	0.004600				
O	Ba	<	0.002500	M	Hf	<	0.000570	n	P	<		M	Ta	<	0.000570				
O	Be	<	0.001400	M	Hg	<	0.000570	M	Pb		0.005020	M	Tb		0.001044				
M	Bi	<	0.003500	M	Ho		0.009037	M	Pd	<	0.005100	M	Te	<	0.002300				
O	Ca		0.009841	M	In	<	0.002300	M	Pr	<	0.002300	M	Th	<	0.000570				
M	Cd	<	0.000570	M	Ir	<	0.000570	M	Pt	<	0.000570	M	Ti	<	0.003500				
M	Ce	<	0.002300	O	K		0.018677	M	Rb	<	0.000570	M	Tl	<	0.000570				
M	Co	<	0.000570	M	La		0.000461	M	Re	<	0.000570	M	Tm	<	0.003500				
M	Cr	<	0.004000	O	Li	<	0.009300	M	Rh	<	0.008000	M	U	<	0.000570				
M	Cs	<	0.000570	M	Lu		0.000582	M	Ru	<	0.000570	M	V		0.001265				
M	Cu		0.002610	O	Mg		0.001486	n	S	<		M	W	<	0.002300				
M	Dy		0.003815	M	Mn		0.000582	M	Sb		0.005422	s	Y	<					
M	Er		0.003615	M	Mo	<	0.005700	M	Sc	<	0.001200	M	Yb		0.001827				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 88.91 +3 6 Y(OH)(H2O)x+2

Chemical Compatibility -Soluble in HCl, H2SO4 and HNO3. Avoid HF, H3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming an insoluble carbonate, oxide, oxalate, and fluoride. Avoid mixing with elements / solutions containing moderate amounts of fluoride.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

Y Containing Samples (Preparation and Solution) - Metal (Soluble in acids); Oxide (Dissolve by heating in H2O/ HNO3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolve in 1:1 H2O / HCl or HNO3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 89 amu	0.8 ppt	N/A	73Ge16O, 178Hf+2
ICP-OES 360.073 nm	0.005 / 0.000036 µg/mL	1	Ce, Th
ICP-OES 371.030 nm	0.004 / 0.00007 µg/mL	1	Ce
ICP-OES 377.433 nm	0.005 / 0.0009 µg/mL	1	Ta, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 20, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- February 20, 2029

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Custom Processing Supervisor



Certificate Approved By:

Muzzammil Khan
Stock Laboratory Supervisor



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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M5960 KK R. 6/11/24

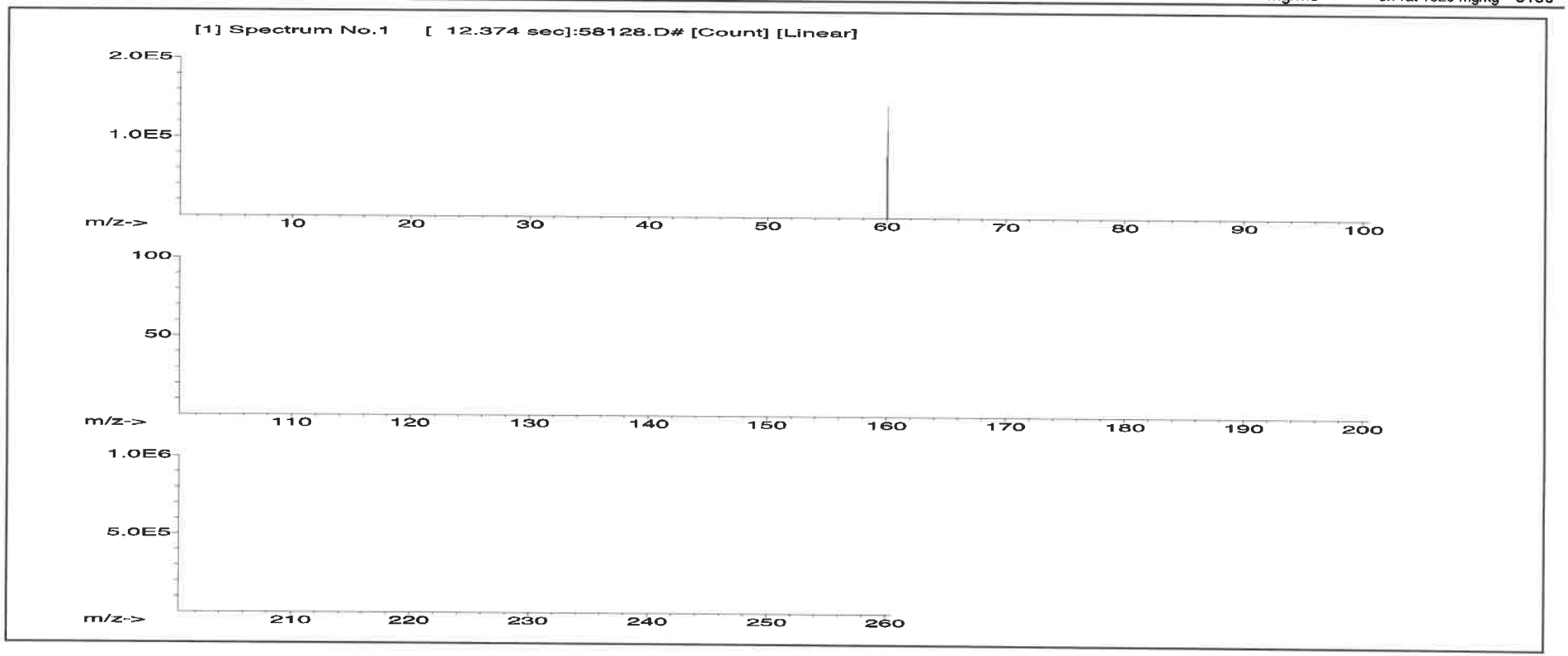
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CERTIFIED WEIGHT REPORT:

			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



664

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	T	Pr	<0.02	Sc	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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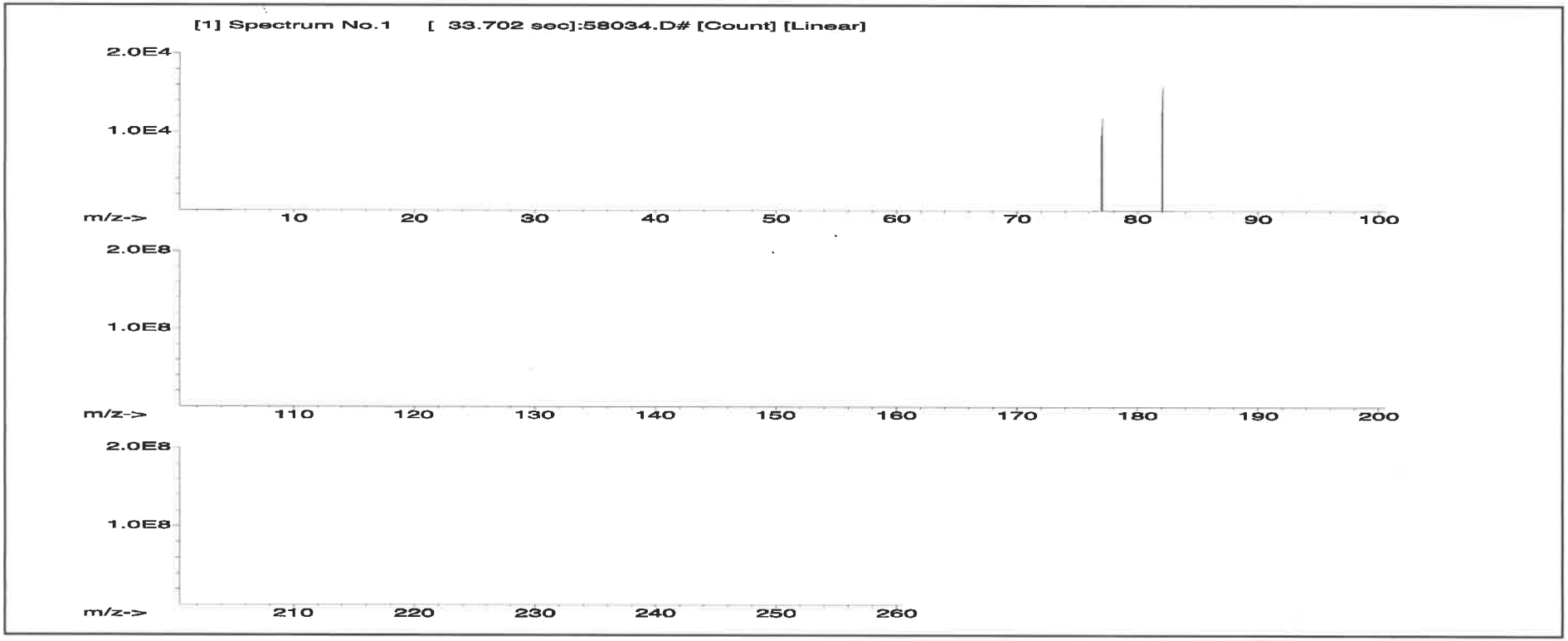
999

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



799

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																		
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	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).

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:

Part Number: 57003
Lot Number: 062124
Description: Lithium (Li)
Expiration Date: 062127
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Volume shown below was diluted to (mL): 250.11

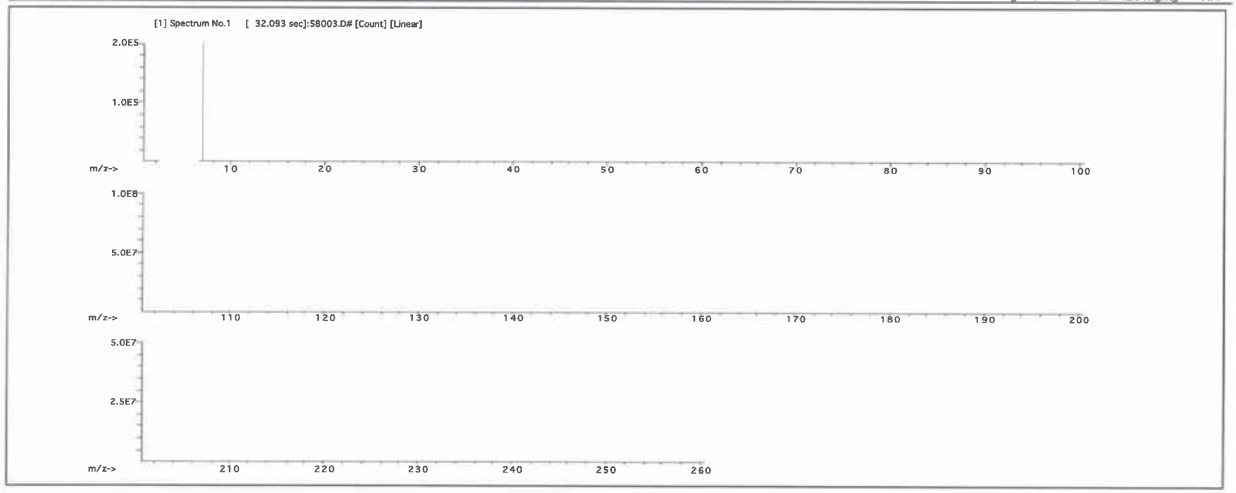
Lot #	Solvent:		
24002546	Nitric Acid		
2.0%	5.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.016 Flask Uncertainty

Giovanni Esposito
Formulated By: Giovanni Esposito 062124

Pedro Rentas
Reviewed By: Pedro L. Rentas 062124

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lithium nitrate (Li)	58103	070622	0.1000	25.0	0.004	1000	10000.4	**1000.0**	**2.0**	7790-69-4	5 mg/m3	orl-rat 1426 mg/kg	NA



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	T	Ni	<0.02	Pr	<0.02	Sc	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMO1
Lot Number:	T2-MO720876
Matrix:	H2O tr. NH4OH
Value / Analyte(s):	1 000 µg/mL ea: Molybdenum
Starting Material:	Ammonium Molybdate
Starting Material Lot#:	2361
Starting Material Purity:	99.9893%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 998 ± 7 µg/mL

Density: 1.000 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **998 ± 4 µg/mL**
ICP Assay NIST SRM 3134 Lot Number: 130418

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance.

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

670

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000590	M	Eu	<	0.000300	M	Na		0.000879	M	Se	<	0.008000	M	Zn		0.000598
M	Al		0.000563	M	Fe	<	0.006500	M	Nb	<	0.029000	i	Si	<		M	Zr	<	0.001800
M	As	<	0.002100	M	Ga	<	0.000300	i	Nd	<		M	Sm	<	0.000300				
M	Au	<	0.000300	M	Gd	<	0.000300	M	Ni	<	0.008000	M	Sn	<	0.008900				
M	B	<	0.003300	M	Ge	<	0.000300	M	Os	<	0.000590	M	Sr		0.000175				
M	Ba		0.001689	M	Hf	<	0.001800	i	P	<		M	Ta	<	0.004200				
M	Be	<	0.000890	M	Hg	<	0.003300	M	Pb	<	0.000300	M	Tb	<	0.000300				
M	Bi	<	0.000890	M	Ho	<	0.000300	M	Pd	<	0.001800	M	Te	<	0.021000				
O	Ca		0.006334	M	In	<	0.032000	M	Pr	<	0.013000	M	Th	<	0.000300				
O	Cd	<	0.026000	M	Ir	<	0.000300	M	Pt	<	0.000300	O	Tl	<	0.032000				
M	Ce	<	0.008300	M	K		0.130213	M	Rb		0.004575	M	Tl		0.001266				
M	Co		0.000598	M	La	<	0.000300	M	Re	<	0.000300	M	Tm	<	0.000300				
M	Cr		0.000527	O	Li		0.000059	M	Rh	<	0.000300	M	U	<	0.005300				
M	Cs		0.000527	M	Lu	<	0.000300	M	Ru	<	0.079000	M	V	<	0.000890				
M	Cu		0.002252	M	Mg		0.000563	i	S	<		M	W		0.087982				
M	Dy	<	0.000300	M	Mn	<	0.005900	M	Sb		0.001513	M	Y	<	0.000300				
M	Er	<	0.000300	s	Mo	<		M	Sc	<	0.001200	M	Yb	<	0.000300				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 95.94 +6 6,7,8,9 [MoO4]-2(chemical form as received)

Chemical Compatibility -Mo is received in a NH4OH matrix giving the operator the option of using HCl or HF to stabilize acidic solutions. The [MoO4]-2 is soluble in concentrated HCl [MoOCl5]-2, dilute HF / HNO3 [MoOF5]-2 and basic media [MoO4]-2. Stable at ppm levels with some metals provided it is fluorinated. Do not mix with Alkaline or Rare Earths when HF is present. Stable with most inorganic anions provided it is in the [MoO4]-2 chemical form.

Stability - 2-100 ppb levels stable (alone or mixed with all other metals that are at comparable levels) as the [MoOF5]-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the [MoO4]-2 chemically stable for years in 1% NH4OH in a LDPE container.

Mo Containing Samples (Preparation and Solution) -Metal (Soluble in HF / HNO3 or hot dilute HCl); Oxide (soluble in HF or NH4OH) ; Organic Matrices (Dry ash at 450EC in Pt0 and dissolve oxide with HF or HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 95 amu	3 ppt	n/a	40Ar39K16O,79Br1 6O,190Os2+,190Pt 2+
ICP-OES 202.030 nm	0.008 / 0.0002 µg/mL	1	Os, Hf
ICP-OES 203.844 nm	0.012 / 0.002 µg/mL	1	
ICP-OES 204.598 nm	0.012 / 0.001 µg/mL	1	Ir, Ta

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- July 17, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation



Certificate Approved By:

Michael Booth
Director, Technical



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



M5978, M5979

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGTI1
Lot Number:	T2-TI719972
Matrix:	2% (v/v) HNO3 tr. HF
Value / Analyte(s):	1 000 µg/mL ea: Titanium
Starting Material:	Ti Metal
Starting Material Lot#:	2094
Starting Material Purity:	99.9975%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 5 µg/mL

Density: 1.012 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **1002 ± 4 µg/mL**
ICP Assay NIST SRM 3162a Lot Number: 130925

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$
w_i = the weighting factors for each method calculated using the inverse square of the variance

$w_i = (1/u_{char\ i}^2) / (\Sigma(1/u_{char\ i}^2))$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = (\Sigma(w_i)^2\ (u_{char\ i})^2)^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with
$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000536	M	Eu	<	0.000268	O	Na	<	0.032670	M	Se		0.001204	O	Zn	<	0.003267
O	Al		0.000872	O	Fe		0.003225	O	Nb	<	0.043560	O	Si		0.004735	O	Zr	<	0.043560
M	As	<	0.008586	M	Ga	<	0.000268	M	Nd	<	0.000268	M	Sm	<	0.000268				
M	Au	<	0.004577	M	Gd	<	0.000268	O	Ni	<	0.010890	M	Sn		0.000096				
O	B	<	0.008929	M	Ge	<	0.002146	M	Os	<	0.000269	O	Sr		0.000096				
M	Ba	<	0.002683	M	Hf		0.002161	O	P	<	0.054450	M	Ta		0.010560				
M	Be	<	0.005366	M	Hg	<	0.003231	M	Pb	<	0.001073	M	Tb	<	0.000268				
M	Bi	<	0.001609	M	Ho	<	0.000268	M	Pd	<	0.000268	M	Te	<	0.001341				
O	Ca		0.000676	M	In	<	0.002683	M	Pr	<	0.000268	M	Th	<	0.053663				
M	Cd	<	0.000268	M	Ir	<	0.000269	M	Pt	<	0.000536	s	Ti	<					
M	Ce	<	0.000268	M	K		0.001172	M	Rb	<	0.000268	M	Tl	<	0.000268				
M	Co	<	0.004293	M	La	<	0.000268	M	Re	<	0.000268	M	Tm	<	0.000268				
M	Cr		0.000752	O	Li	<	0.027225	M	Rh	<	0.000268	M	U	<	0.000268				
M	Cs	<	0.000268	M	Lu	<	0.000268	M	Ru	<	0.000269	M	V	<	0.019855				
O	Cu	<	0.010890	O	Mg	<	0.005445	i	S	<		M	W		0.000473				
M	Dy	<	0.000268	O	Mn	<	0.003267	M	Sb	<	0.006976	M	Y	<	0.002146				
M	Er	<	0.000268	M	Mo		0.000774	O	Sc	<	0.004900	M	Yb	<	0.000536				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 47.87 +4 6 Ti(F)6-2

Chemical Compatibility - Soluble in concentrated HCl, HF, H3PO4 H2SO4 and HNO3. Avoid neutral to basic media. Unstable at ppm levels with metals that would pull F- away (i.e. Do not mix with Alkaline or Rare Earths or high levels of transition elements unless they are fluorinated). Stable with most inorganic anions with a tendency to hydrolyze forming the hydrated oxide in all dilute acids except HF.

Stability - 2-100 ppb levels stable (Alone or mixed with all other metals) as the Ti(F)6-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the Ti(F)6-2 chemically stable for years in 2-5% HNO3 / trace HF in an LDPE container.

Ti Containing Samples (Preparation and Solution) - Metal (Soluble in H2O / HF caution -powder reacts violently); Oxide - low temperature history anatase or rutile (Dissolved by heating in 1:1:1 H2O / HF / H2SO4); Oxide - high temperature history (~800EC) brookite (fuse in Pt0 with K2S2O7); Ores (fuse in Pt0 with KF + K2S2O7 - no KF if silica not present); Organic Matrices (Dry ash at 450EC in Pt0 and dissolve by heating with 1:1:1 H2O / HF / H2SO4 or fuse ash with pyrosulfate if oxide is as plastic pigment and likely in brookite crystalline form).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Interferences (underlined indicates severe)
ICP-MS 48 amu	14 ppt	N/A	32S16O, 32S14N, 14N16O18O, 14N17N2, 36Ar12C, 48Ca, [96X=2 (where X = Zr, Mo, Ru)]
ICP-OES 323.452 nm	0.0054 / 0.00092 µg/mL	1	Ce, Ar, Ni
ICP-OES 334.941 nm	0.0038 / 0.000028 µg/mL	1	Nb, Ta, Cr, U
ICP-OES 336.121 nm	0.0053 / 0.000034 µg/mL	1	W, Mo, Co

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- June 17, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

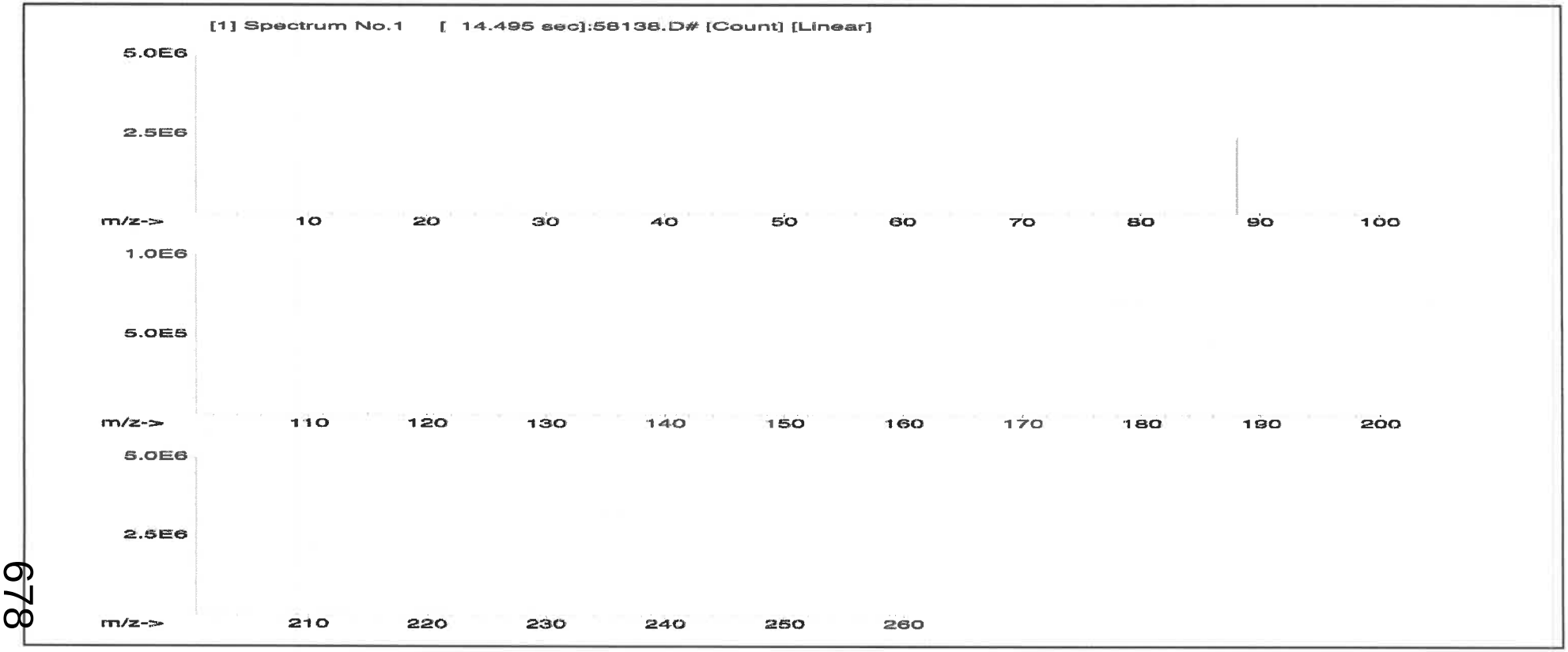
45982 R: 6/11/24

CERTIFIED WEIGHT REPORT:

Part Number:	**57038**			**Lot #**	
Lot Number:	**031524**	**Solvent:**	24002546	Nitric Acid	
Description:	**Strontium (Sr)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	031527				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty		

Formulated By:	Benson Chan	031524
Reviewed By:	Pedro L. Rentas	031524

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Strontium nitrate (Sr)	IN017	SRZ022018A1	1000	99.997	0.10	41.2	4.85470	4.85502	**1000.1**	**2.0**	10042-76-9	NA	orl-rat >2000mg/kg	3153a



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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MS985
R: 6/14/24

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 863.01
ACCREDITED Reference Material Producer Certificate 863.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGIN10
Lot Number:	U2-IN729349
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Indium
Starting Material:	Indium Metal
Starting Material Lot#:	2511
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10022 ± 30 µg/mL

Density: 1.044 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**10021 ± 56 µg/mL** ICP Assay NIST SRM 3124a Lot Number: 110516
Assay Method #2	**10035 ± 25 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #3	**10001 ± 33 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000760	M	Eu	<	0.000760	O	Na		0.012771	M	Se	<	0.023000	M	Zn	<	0.006100
M	Al		0.003385	O	Fe		0.004462	M	Nb	<	0.000760	O	Si		0.024619	M	Zr	<	0.000760
M	As	<	0.004600	M	Ga	<	0.000760	M	Nd	<	0.000760	M	Sm	<	0.000760				
M	Au	<	0.002300	M	Gd	<	0.000760	O	Ni	<	0.005100	M	Sn	<	0.000760				
O	B		0.003692	M	Ge	<	0.001600	M	Os	<	0.000760	O	Sr	<	0.000610				
M	Ba	<	0.001600	M	Hf	<	0.000760	n	P	<		M	Ta	<	0.000760				
O	Be	<	0.000130	M	Hg	<	0.003100	M	Pb		0.001400	M	Tb	<	0.000760				
M	Bi	<	0.000760	M	Ho	<	0.000760	M	Pd	<	0.001600	M	Te	<	0.000760				
O	Ca		0.004616	s	In	<		M	Pr	<	0.000760	M	Th	<	0.000760				
M	Cd	<	0.000760	M	Ir	<	0.000760	M	Pt	<	0.000760	O	Ti	<	0.001100				
M	Ce	<	0.000760	O	K		0.007078	M	Rb	<	0.000760	M	Tl	<	0.000760				
M	Co	<	0.000760	M	La	<	0.000760	M	Re	<	0.000760	M	Tm	<	0.000760				
O	Cr	<	0.001300	O	Li	<	0.000130	M	Rh	<	0.000760	M	U	<	0.000760				
M	Cs	<	0.000760	M	Lu	<	0.000760	M	Ru	<	0.000760	M	V	<	0.001600				
M	Cu	<	0.003800	O	Mg		0.000707	n	S	<		M	W	<	0.001600				
M	Dy	<	0.000760	O	Mn		0.000149	M	Sb	<	0.000760	M	Y	<	0.000760				
M	Er	<	0.000760	M	Mo	<	0.002300	M	Sc	<	0.000760	M	Yb	<	0.000760				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 114.82 +3 6 In(H2O)6+3

Chemical Compatibility -Soluble in HCl, HNO3, and H2SO4. Avoid neutral and basic media. Stable with most metals and inorganic anions. The oxalate, sulfide, carbonate, hydroxide and phosphate are insoluble in water.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

In Containing Samples (Preparation and Solution) -Metal (Best dissolved in HCl / HNO3); Oxide (Soluble in mineral acids); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric/peroxide digestion or dry ash and dissolution in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 115 amu	1 ppt	n/a	115Sn, 99Ru16O
ICP-OES 158.583 nm	0.05 / 0.002 µg/mL	1	
ICP-OES 230.606 nm	0.1 / 0.03 µg/mL	1	Ni, Os
ICP-OES 325.609 nm	0.2 / 0.05 µg/mL	1	Mn, Mo, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 21, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- February 21, 2028

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-SPK-1
Lot Number:	T2-MEB721963
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	2 000 µg/mL ea: Aluminum, Barium, 1 000 µg/mL ea: Iron, 500 µg/mL ea: Manganese, Nickel, Vanadium, Zinc, Cobalt, 250 µg/mL ea: Copper, 200 µg/mL ea: Chromium, 50 µg/mL ea: Beryllium, Silver

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	2 000 ± 7 µg/mL	Barium, Ba	2 000 ± 9 µg/mL
Beryllium, Be	50.00 ± 0.26 µg/mL	Chromium, Cr	200.0 ± 1.1 µg/mL
Cobalt, Co	500.0 ± 2.4 µg/mL	Copper, Cu	250.0 ± 1.0 µg/mL
Iron, Fe	1 000 ± 4 µg/mL	Manganese, Mn	500.0 ± 2.0 µg/mL
Nickel, Ni	500.0 ± 2.2 µg/mL	Silver, Ag	50.00 ± 0.22 µg/mL
Vanadium, V	500.0 ± 2.2 µg/mL	Zinc, Zn	500.0 ± 2.2 µg/mL

Density: 1.070 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Ag	Calculated		See Sec. 4.2
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
V	IC Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)\,(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 27, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- July 27, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

R → 10/13/24
Met dig

M 6121

Material No.: 9530-33
Batch No.: 0000275677
Manufactured Date: 2020/12/16
Retest Date: 2025/12/15
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	1
ACS - Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	< 0.2
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	29.7
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

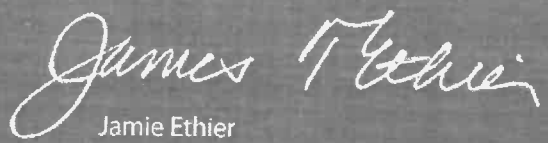
688

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

689

M6125 Receive -> 11/22/24

CORCO CHEMICAL CORPORATION

Manufacturers of ACS Reagents and Semiconductor Grade Chemicals

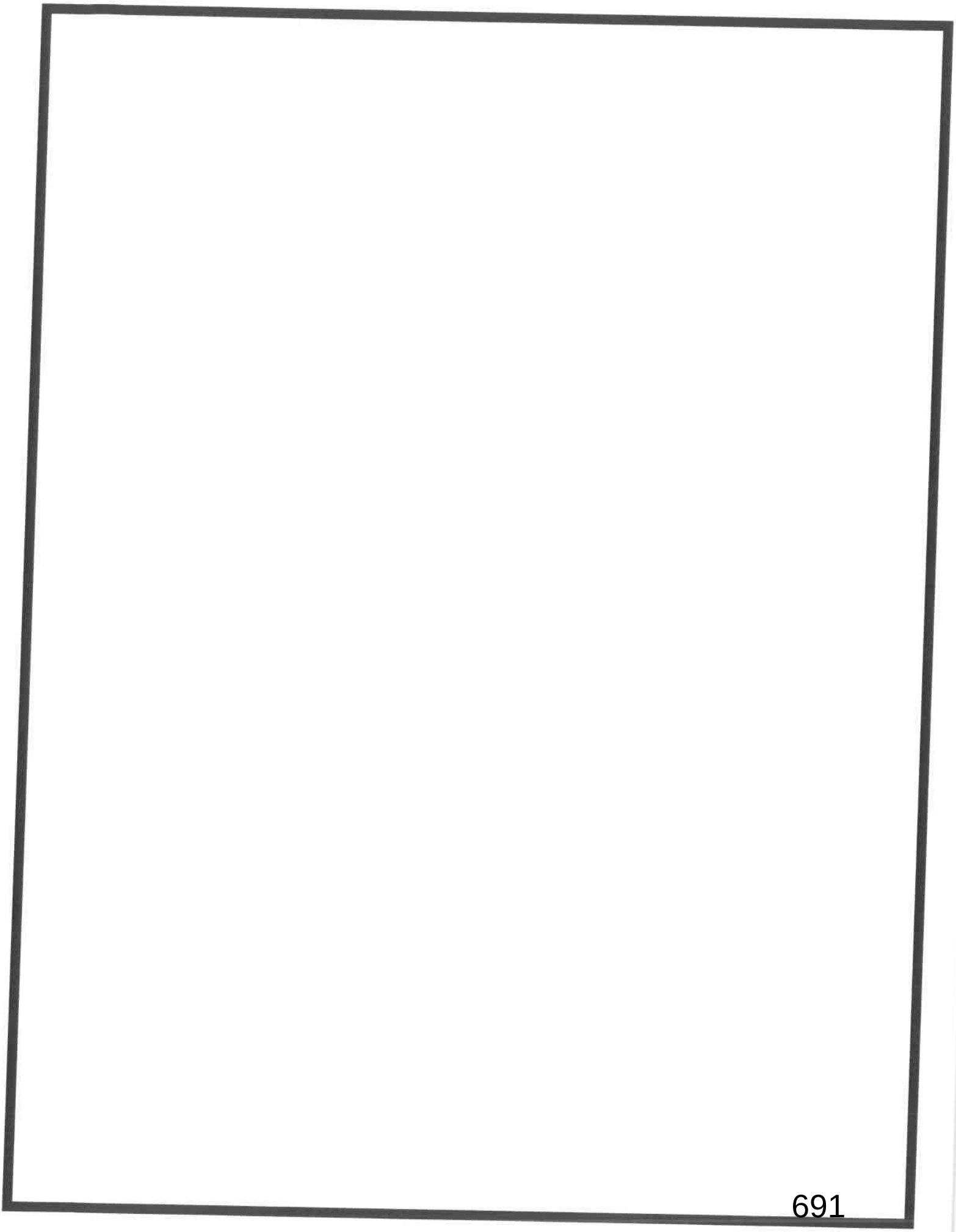
Office and Plant
299 Cedar Lane
Fairless Hills, PA 19030

Phone: 215-295-5006
Fax: 215-295-0781

Hydrogen Peroxide 30%, ACS

Reagent Grade

SPECIFICATION	MAXIMUM LIMITS
Appearance	Colorless and free from suspended matter or sediment
Assay	29-32%
Color (APHA)	10
Residue after Evaporation	0.002%
Titratable Acid	0.0006 meq/g
Chloride (Cl)	3 ppm
Nitrate (NO_3)	2 ppm
Phosphate	2 ppm
Sulfate (SO_4)	5 ppm
Ammonium (NH_4)	5 ppm
Heavy Metals (as Pb)	1 ppm
Iron (Fe)	0.5 ppm



Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

R -> 11/12/24

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

M6126

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

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www.absolutestandards.com

Certified Reference Material CRM

R: 01/03/24 M5806, M5807

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

694

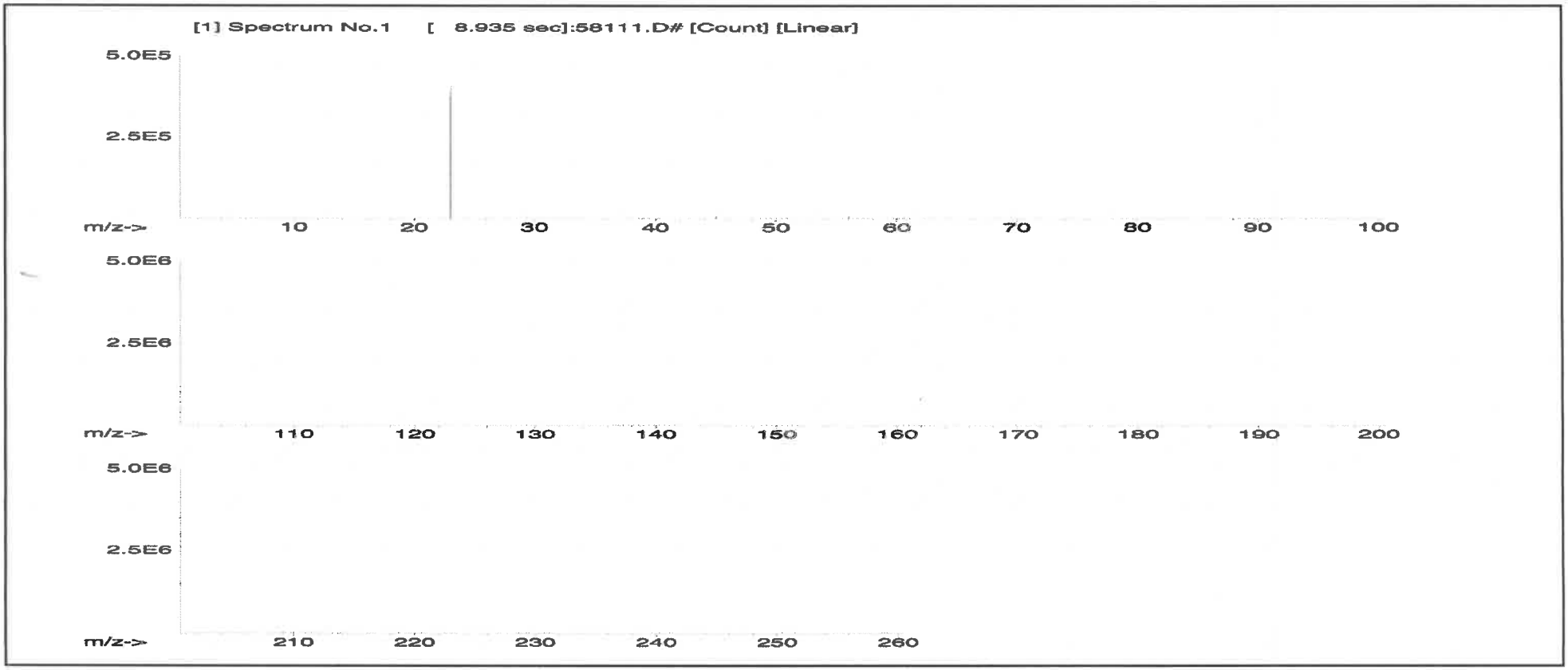
CERTIFIED WEIGHT REPORT:

Part Number:	**58111**		**Lot #**		
Lot Number:	**122223**	**Solvent:**	24002546	Nitric Acid	
Description:	**Sodium (Na)**				
		2%	60.0 (mL)	Nitric Acid	
Expiration Date:	122226				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	3000.4	0.06	Flask Uncertainty		

Aleah O'Brady

Formulated By:	Aleah O'Brady	122223
Reviewed By:	Pedro L. Rentas	122223

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium nitrate (Na)	IN036	NAV012015I1	10000	99.999	0.10	26.9	111.5406	111.5479	**10000.7**	**20.0**	7631-99-4	5 mg/m3	orl-rat 3430 mg/kg	3152a



695

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	T	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 01/03/24 M5802, M5803

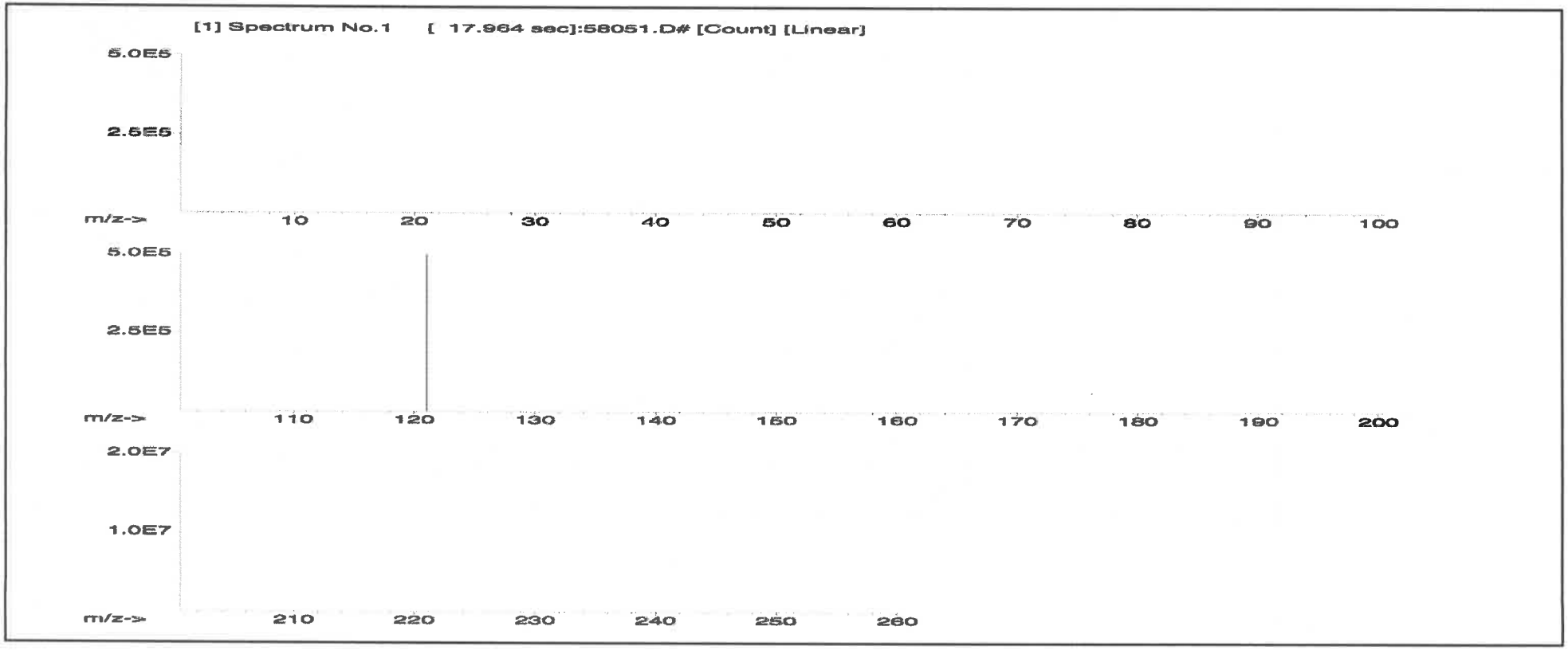
999

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



697

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.
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* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

M6030

R: 8/5/24

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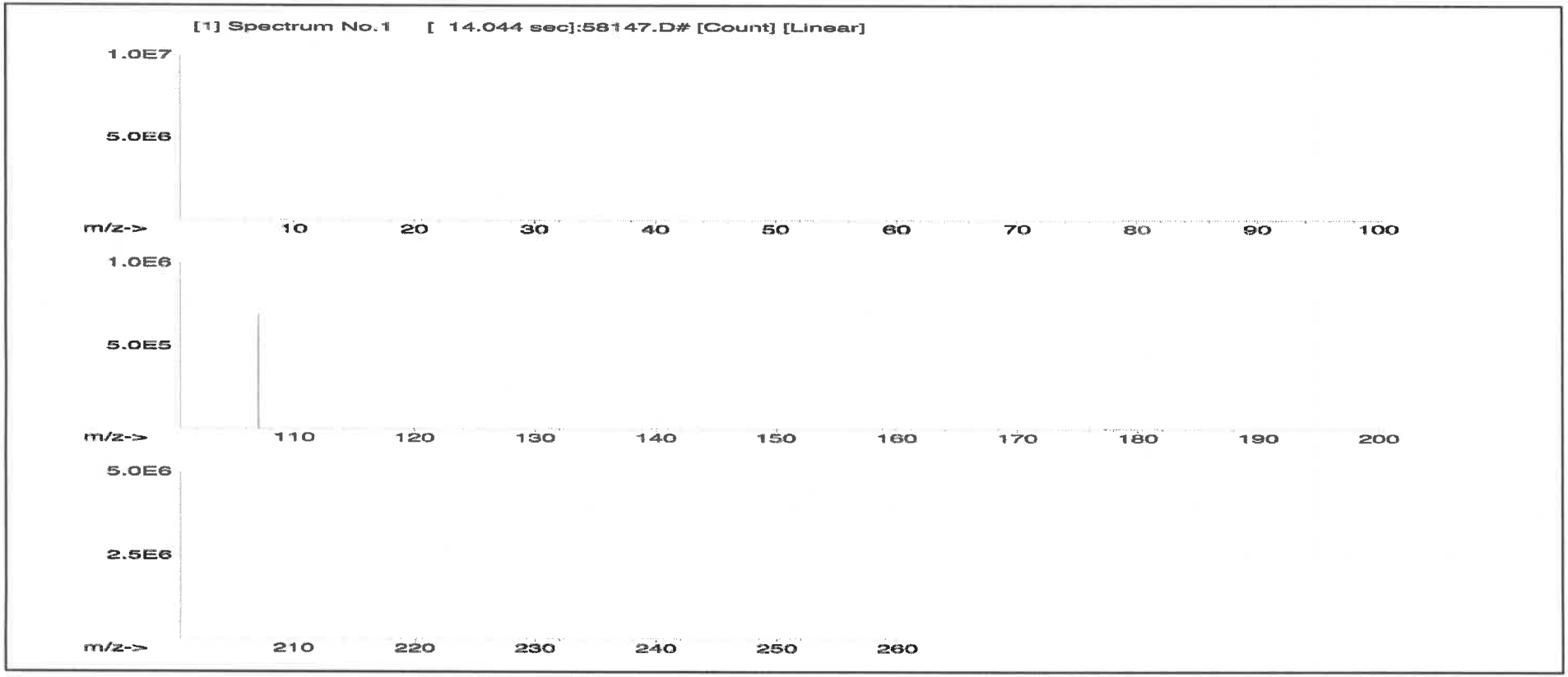
868

CERTIFIED WEIGHT REPORT:

Part Number:	**57047**		**Lot #**		
Lot Number:	**122823**	**Solvent:**	24002546	Nitric Acid	
Description:	**Silver (Ag)**	2%	80.0 (mL)	Nitric Acid	
Expiration Date:	122826				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	4000.30	0.058	Flask Uncertainty		

Formulated By:	Benson Chan	122823
Reviewed By:	Pedro L. Rentas	122823

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Silver nitrate (Ag)	IN035	J0612AGA1	1000.0	99.9999	0.10	63.7	6.27992	6.27998	**1000.0**	**2.0**	7761-88-8	10 ug/m3	NA	3151



669

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	T	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

R: 03/16/23 M5473, M5474, M5475, M5476

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AR-1539 Certificate Number
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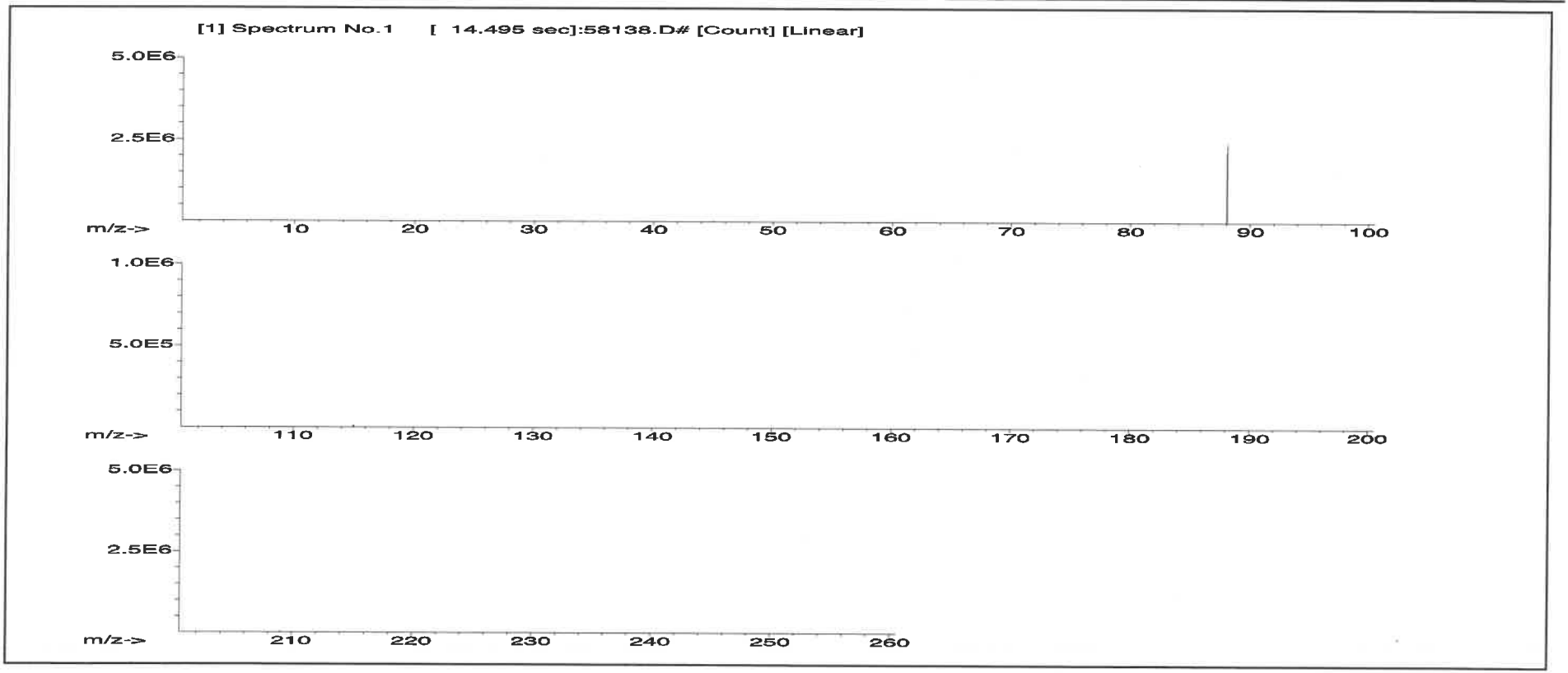
700

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



701

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

R ! 8/5/24

M6023

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

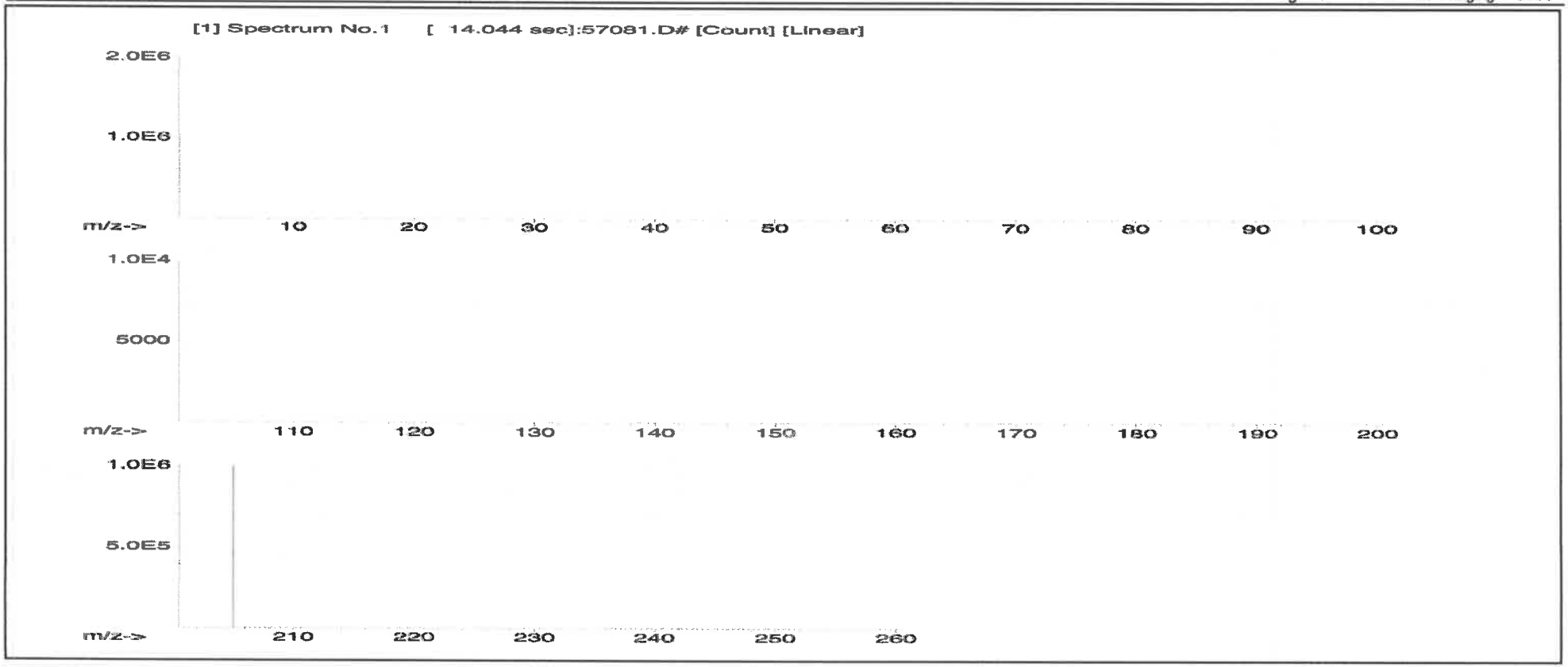
Part Number:	**57081**			**Lot #**	
Lot Number:	**062724**		**Solvent:**	24002546	Nitric Acid
Description:	**Thallium (Tl)**		2%	40.0 (mL)	Nitric Acid
Expiration Date:	062727				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance 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

702

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



703

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	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.
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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

M6021

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Rc. 8/5/24

704

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57023**			
Lot Number:	**062424**	24002546	Nitric Acid	
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	

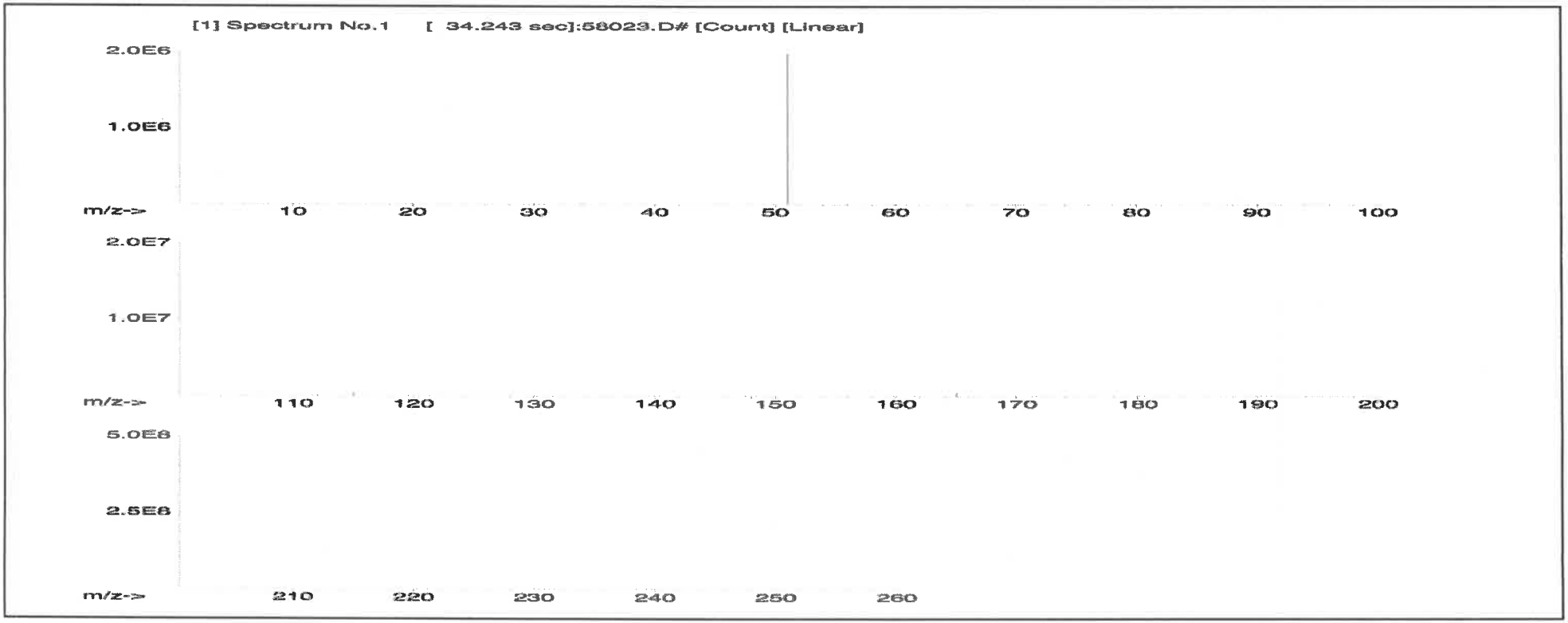
Aleah O'Brady

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



705

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	T
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB165911

SOP ID : M3050B-Digestion-20, MSFAM01.1-Trace Metals-2

SDG No : MBHN53

Start Digest Date: 12/30/2024 **Time :** 10:40 **Temp :** 96 °C

Matrix : SOIL

End Digest Date: 12/30/2024 **Time :** 12:45 **Temp :** 96 °C

Pippete ID: ICP A

Digestion tube ID: M6054

Balance ID : M SC-2

Block thermometer ID: MET-DIG. # 3

Filter paper ID : N/A

Dig Technician Signature: SLRS.

pH Strip ID : N/A

Supervisor Signature: MS

Hood ID : #3

Temp : **1.** 96°C **2.** N/A

Block ID: **1.** HOT BLOCK #3 **2.** N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LCSS	1.00	MP83506
Spike Sol 6	1.00	MP83512
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
1:1 HNO3	10.00	MP83498
Conc. HNO3	5.00	M6126
30% H2O2	3.00	M6125
Conc. HCL	10.00	M6121
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK #3CELL #35 : 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/30/24 13:45	SLRS. MET-DIG	MB-METAL LAB
	Preparation Group	**Analysis Group**

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB165911

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
P5206-01	MBHN53	N/A	1.33	100	Brown	Yellow	Medium	N/A	N/A	1
P5206-02	MBHN82	N/A	1.22	100	Brown	Yellow	Medium	N/A	N/A	2
P5206-03	MBHN82D	N/A	1.46	100	Brown	Yellow	Medium	N/A	N/A	3
P5206-04	MBHN82S	N/A	1.38	100	Brown	Yellow	Medium	N/A	MP83512	4
P5206-05	MBHN83	N/A	1.05	100	Brown	Yellow	Medium	N/A	N/A	5
P5206-06	MBHN84	N/A	1.09	100	Brown	Yellow	Medium	N/A	N/A	6
P5206-07	MBHN85	N/A	1.28	100	Brown	Yellow	Medium	N/A	N/A	7
P5206-08	MBHN86	N/A	1.30	100	Brown	Yellow	Medium	N/A	N/A	8
P5206-09	MBHN87	N/A	1.26	100	Brown	Yellow	Medium	N/A	N/A	9
P5206-10	MBHN88	N/A	1.10	100	Brown	Yellow	Medium	N/A	N/A	10
P5206-11	MBHNA1	N/A	1.20	100	Brown	Yellow	Medium	N/A	N/A	11
P5206-12	MBHNA2	N/A	1.37	100	Brown	Yellow	Medium	N/A	N/A	12
P5206-13	MBHNA3	N/A	1.38	100	Brown	Yellow	Medium	N/A	N/A	13
P5206-14	MBHNA4	N/A	1.18	100	Brown	Yellow	Medium	N/A	N/A	14
P5206-15	MBHNA5	N/A	1.27	100	Brown	Yellow	Medium	N/A	N/A	15
P5206-16	MBHNA6	N/A	1.23	100	Brown	Yellow	Medium	N/A	N/A	16
P5206-17	MBHNA7	N/A	1.25	100	Brown	Yellow	Medium	N/A	N/A	17
P5206-18	MBHNJ9	N/A	1.25	100	Brown	Yellow	Medium	N/A	N/A	18
P5206-19	MBHNK0	N/A	1.07	100	Brown	Yellow	Medium	N/A	N/A	19
PB165911BL	PBS911	N/A	1.00	100	Colorless	Colorless	Fine	N/A	N/A	20
PB165911BS	LCS911	N/A	1.00	100	Colorless	Colorless	Fine	N/A	MP83506	21

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134242

Review By	Sarabjit Jaswal	Review On	1/13/2025 6:55:07 AM
Supervise By	Mohan Bera	Supervise On	1/13/2025 6:55:51 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	01/12/25 02:00		Kareem	OK
2	S1	S01	CAL2	01/12/25 02:04		Kareem	OK
3	S2	S02	CAL3	01/12/25 02:08		Kareem	OK
4	S3	S03	CAL4	01/12/25 02:12		Kareem	OK
5	S4	S04	CAL5	01/12/25 02:16		Kareem	OK
6	S5	S05	CAL6	01/12/25 02:20		Kareem	OK
7	S6	S06	CAL7	01/12/25 02:25		Kareem	OK
8	ICV001	ICV001	ICV	01/12/25 03:02	Inst. paused for calibration review	Kareem	OK
9	ICB001	ICB001	ICB	01/12/25 03:06		Kareem	OK
10	ICSA001	ICSA001	ICSA	01/12/25 03:10		Kareem	OK
11	ICSAB001	ICSAB001	ICSAB	01/12/25 03:14		Kareem	OK
12	CCV001	CCV001	CCV	01/12/25 03:30	Inst. paused for review	Kareem	OK
13	CCB001	CCB001	CCB	01/12/25 03:34		Kareem	OK
14	PB165909BL	PBS909	MB	01/12/25 03:38		Kareem	OK
15	PB165909BS	LCS909	LCS	01/12/25 03:42		Kareem	OK
16	PB165911BL	PBS911	MB	01/12/25 03:46		Kareem	OK
17	PB165911BS	LCS911	LCS	01/12/25 03:51		Kareem	OK
18	PB165923BL	PBS923	MB	01/12/25 03:55		Kareem	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134242

Review By	Sarabjit Jaswal	Review On	1/13/2025 6:55:07 AM
Supervise By	Mohan Bera	Supervise On	1/13/2025 6:55:51 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

19	PB165923BS	LCS923	LCS	01/12/25 03:59		Kareem	OK
20	PB165891BL	PBS891	MB	01/12/25 04:03		Kareem	OK
21	PB165891BS	LCS891	LCS	01/12/25 04:07		Kareem	OK
22	PB165885BL	PBS885	MB	01/12/25 04:11		Kareem	OK
23	PB165885BS	LCS885	LCS	01/12/25 04:15		Kareem	OK
24	PB165884BL	PBS884	MB	01/12/25 04:19		Kareem	OK
25	PB165884BS	LCS884	LCS	01/12/25 04:23		Kareem	OK
26	PB165886BL	PBS886	MB	01/12/25 04:27		Kareem	OK
27	PB165886BS	LCS886	LCS	01/12/25 04:32		Kareem	OK
28	P5209-01	MBHMZ2	SAM	01/12/25 04:36		Kareem	OK
29	P5209-02	MBHMZ3	SAM	01/12/25 04:40		Kareem	OK
30	P5209-03	MBHMZ4	SAM	01/12/25 04:43		Kareem	OK
31	P5209-04	MBHMZ5	SAM	01/12/25 04:47		Kareem	OK
32	P5209-05	MBHMZ6	SAM	01/12/25 04:51		Kareem	OK
33	P5209-06	MBHMZ7	SAM	01/12/25 04:55		Kareem	OK
34	CCV002	CCV002	CCV	01/12/25 04:59		Kareem	OK
35	CCB002	CCB002	CCB	01/12/25 05:04		Kareem	OK
36	P5209-07	MBHMZ8	SAM	01/12/25 05:08	Ca high	Kareem	Dilution
37	P5209-08	MBHN75	SAM	01/12/25 05:12		Kareem	OK
38	P5209-09	MBHN76	SAM	01/12/25 05:16		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134242

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Supervise By	Mohan Bera	Supervise On	1/13/2025 6:55:51 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

39	P5209-10	MBHN77	SAM	01/12/25 05:20		Kareem	OK
40	P5209-11	MBHN78	SAM	01/12/25 05:24		Kareem	OK
41	P5209-12	MBHN79	SAM	01/12/25 05:28		Kareem	OK
42	P5209-13	MBHN80	SAM	01/12/25 05:32		Kareem	OK
43	P5209-14	MBHN81	SAM	01/12/25 05:36		Kareem	OK
44	P5209-15	MBHN81D	DUP	01/12/25 05:40		Kareem	OK
45	P5209-14L	MBHN81L	SD	01/12/25 05:44		Kareem	OK
46	P5209-16	MBHN81S	MS	01/12/25 05:48	MS fail for Se	Kareem	OK
47	P5209-17	MBHN96	SAM	01/12/25 05:52		Kareem	OK
48	P5209-18	MBHN97	SAM	01/12/25 05:55		Kareem	OK
49	P5209-19	MBHN98	SAM	01/12/25 06:00		Kareem	OK
50	P5209-20	MBHN99	SAM	01/12/25 06:04		Kareem	OK
51	P5209-21	MBHNA0	SAM	01/12/25 06:08		Kareem	OK
52	P5209-22	MBHNC2	SAM	01/12/25 06:11		Kareem	OK
53	P5208-01	MBHN68	SAM	01/12/25 06:15		Kareem	OK
54	P5208-02	MBHN69	SAM	01/12/25 06:19		Kareem	OK
55	P5208-03	MBHN70	SAM	01/12/25 06:23		Kareem	OK
56	CCV003	CCV003	CCV	01/12/25 06:36		Kareem	OK
57	CCB003	CCB003	CCB	01/12/25 06:40		Kareem	OK
58	P5208-04	MBHN71	SAM	01/12/25 06:44		Kareem	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134242

Review By	Sarabjit Jaswal	Review On	1/13/2025 6:55:07 AM
Supervise By	Mohan Bera	Supervise On	1/13/2025 6:55:51 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

59	P5208-05	MBHN72	SAM	01/12/25 06:48		Kareem	OK
60	P5208-06	MBHN73	SAM	01/12/25 06:52		Kareem	OK
61	P5208-07	MBHN74	SAM	01/12/25 06:56		Kareem	OK
62	P5208-08	MBHNK1	SAM	01/12/25 07:00		Kareem	OK
63	P5208-09	MBHNK2	SAM	01/12/25 07:04		Kareem	OK
64	P5208-10	MBHNK3	SAM	01/12/25 07:08		Kareem	OK
65	P5208-11	MBHNK4	SAM	01/12/25 07:12		Kareem	OK
66	P5208-12	MBHNK4D	DUP	01/12/25 07:16		Kareem	OK
67	P5208-11L	MBHNK4L	SD	01/12/25 07:20		Kareem	OK
68	P5208-13	MBHNK4S	MS	01/12/25 07:24	MS fail for Se,Zn	Kareem	OK
69	P5208-14	MBHNK5	SAM	01/12/25 07:28		Kareem	OK
70	P5208-15	MBHNK6	SAM	01/12/25 07:32		Kareem	OK
71	P5208-16	MBHNK7	SAM	01/12/25 07:36		Kareem	OK
72	P5208-17	MBHNK8	SAM	01/12/25 07:40		Kareem	OK
73	P5208-18	MBHNK9	SAM	01/12/25 07:44		Kareem	OK
74	P5206-01	MBHN53	SAM	01/12/25 07:48	Ca,Mg high	Kareem	Dilution
75	P5206-02	MBHN82	SAM	01/12/25 07:52		Kareem	OK
76	P5206-03	MBHN82D	DUP	01/12/25 07:56		Kareem	OK
77	P5206-02L	MBHN82L	SD	01/12/25 08:00		Kareem	OK
78	CCV004	CCV004	CCV	01/12/25 08:04		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134242

Review By	Sarabjit Jaswal	Review On	1/13/2025 6:55:07 AM
Supervise By	Mohan Bera	Supervise On	1/13/2025 6:55:51 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

79	CCB004	CCB004	CCB	01/12/25 08:08		Kareem	OK
80	P5206-04	MBHN82S	MS	01/12/25 08:12	MS fail for As,Cu,Se,Zn	Kareem	OK
81	P5206-05	MBHN83	SAM	01/12/25 08:16		Kareem	OK
82	P5206-06	MBHN84	SAM	01/12/25 08:20		Kareem	OK
83	P5206-07	MBHN85	SAM	01/12/25 08:24		Kareem	OK
84	P5206-08	MBHN86	SAM	01/12/25 08:28		Kareem	OK
85	P5206-09	MBHN87	SAM	01/12/25 08:32		Kareem	OK
86	P5206-10	MBHN88	SAM	01/12/25 08:36	Ca high	Kareem	Dilution
87	P5206-11	MBHNA1	SAM	01/12/25 08:40		Kareem	OK
88	P5206-12	MBHNA2	SAM	01/12/25 08:44		Kareem	OK
89	P5206-13	MBHNA3	SAM	01/12/25 08:48		Kareem	OK
90	P5206-14	MBHNA4	SAM	01/12/25 08:52		Kareem	OK
91	P5206-15	MBHNA5	SAM	01/12/25 08:56		Kareem	OK
92	P5206-16	MBHNA6	SAM	01/12/25 09:00		Kareem	OK
93	P5206-17	MBHNA7	SAM	01/12/25 09:04		Kareem	OK
94	P5206-18	MBHNJ9	SAM	01/12/25 09:08		Kareem	OK
95	P5206-19	MBHNK0	SAM	01/12/25 09:12		Kareem	OK
96	P5197-01	MBHMP6	SAM	01/12/25 09:16		Kareem	OK
97	P5197-02	MBHMP7	SAM	01/12/25 09:20		Kareem	OK
98	P5197-03	MBHMP8	SAM	01/12/25 09:24		Kareem	OK

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ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

99	P5197-04	MBHMP9	SAM	01/12/25 09:28		Kareem	OK
100	CCV005	CCV005	CCV	01/12/25 09:32		Kareem	OK
101	CCB005	CCB005	CCB	01/12/25 09:36		Kareem	OK
102	P5197-05	MBHMQ7	SAM	01/12/25 09:41		Kareem	OK
103	P5197-06	MBHMQ8	SAM	01/12/25 09:44		Kareem	OK
104	P5197-07	MBHMQ9	SAM	01/12/25 09:48		Kareem	OK
105	P5197-08	MBHMQ9D	DUP	01/12/25 09:52		Kareem	OK
106	P5197-07L	MBHMQ9L	SD	01/12/25 09:56		Kareem	OK
107	P5197-09	MBHMQ9S	MS	01/12/25 10:00	MS fail for Se	Kareem	OK
108	P5197-10	MBHMR0	SAM	01/12/25 10:04		Kareem	OK
109	P5197-11	MBHMR1	SAM	01/12/25 10:08		Kareem	OK
110	P5197-12	MBHMR2	SAM	01/12/25 10:12		Kareem	OK
111	P5197-13	MBHMR3	SAM	01/12/25 10:16		Kareem	OK
112	P5197-14	MBHMS1	SAM	01/12/25 10:20		Kareem	OK
113	P5197-15	MBHMS2	SAM	01/12/25 10:24		Kareem	OK
114	P5197-16	MBHMS3	SAM	01/12/25 10:28		Kareem	OK
115	P5197-17	MBHMS4	SAM	01/12/25 10:32		Kareem	OK
116	P5197-18	MBHMS5	SAM	01/12/25 10:36		Kareem	OK
117	P5197-19	MBHMS6	SAM	01/12/25 10:40		Kareem	OK
118	P5197-20	MBHMS7	SAM	01/12/25 10:44	Ca high	Kareem	Dilution

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ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

119	P5197-21	MBHMT8	SAM	01/12/25 10:48		Kareem	OK
120	P5197-22	MBHMT9	SAM	01/12/25 10:52		Kareem	OK
121	CCV006	CCV006	CCV	01/12/25 10:56		Kareem	OK
122	CCB006	CCB006	CCB	01/12/25 11:00		Kareem	OK
123	P5388-01	MH2D26	SAM	01/12/25 11:04		Kareem	OK
124	P5388-02	MH2D29	SAM	01/12/25 11:08		Kareem	OK
125	P5388-03	MH2D32	SAM	01/12/25 11:13		Kareem	OK
126	P5388-04	MH2D35	SAM	01/12/25 11:17		Kareem	OK
127	P5388-05	MH2D38	SAM	01/12/25 11:21		Kareem	OK
128	P5388-06	MH2D41	SAM	01/12/25 11:25		Kareem	OK
129	P5388-07	MH2D44	SAM	01/12/25 11:29		Kareem	OK
130	P5388-08	MH2D47	SAM	01/12/25 11:33		Kareem	OK
131	P5388-09	MH2D50	SAM	01/12/25 11:38		Kareem	OK
132	P5388-10	MH2D53	SAM	01/12/25 11:42		Kareem	OK
133	P5388-11	MH2D56	SAM	01/12/25 11:46	Fe high	Kareem	Dilution
134	P5388-12	MH2D59	SAM	01/12/25 11:50		Kareem	OK
135	P5388-13	MH2D62	SAM	01/12/25 11:54		Kareem	OK
136	P5388-14	MH2D65	SAM	01/12/25 11:58		Kareem	OK
137	P5388-15	MH2D68	SAM	01/12/25 12:02		Kareem	OK
138	P5388-16	MH2D71	SAM	01/12/25 12:07		Kareem	OK

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ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

139	P5388-17	MH2D74	SAM	01/12/25 12:11		Kareem	OK
140	P5388-18	MH2D74D	DUP	01/12/25 12:15		Kareem	OK
141	P5388-17L	MH2D74L	SD	01/12/25 12:19		Kareem	OK
142	P5388-19	MH2D74S	MS	01/12/25 12:23		Kareem	OK
143	P5393-01RE	MH2D28	SAM	01/12/25 12:27	NOT USE	Kareem	Not Ok
144	CCV007	CCV007	CCV	01/12/25 12:37		Kareem	OK
145	CCB007	CCB007	CCB	01/12/25 12:41		Kareem	OK
146	P5201-01	MBHMY5	SAM	01/12/25 12:45		Kareem	OK
147	P5201-02	MBHMY6	SAM	01/12/25 12:49		Kareem	OK
148	P5201-03	MBHMY7	SAM	01/12/25 12:53		Kareem	OK
149	P5201-04	MBHMY8	SAM	01/12/25 12:57		Kareem	OK
150	P5201-05	MBHMY9	SAM	01/12/25 13:01		Kareem	OK
151	P5201-06	MBHMZ0	SAM	01/12/25 13:05		Kareem	OK
152	P5201-07	MBHMZ1	SAM	01/12/25 13:09		Kareem	OK
153	P5201-08	MBHNA8	SAM	01/12/25 13:13		Kareem	OK
154	P5201-09	MBHNA9	SAM	01/12/25 13:17		Kareem	OK
155	P5201-10	MBHNB0	SAM	01/12/25 13:21		Kareem	OK
156	P5201-11	MBHNB1	SAM	01/12/25 13:25		Kareem	OK
157	P5201-12	MBHNB2	SAM	01/12/25 13:29		Kareem	OK
158	P5201-13	MBHNB3	SAM	01/12/25 13:33		Kareem	OK

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ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

159	P5201-14	MBHNB4	SAM	01/12/25 13:37		Kareem	OK
160	P5201-15	MBHNE3	SAM	01/12/25 13:41		Kareem	OK
161	P5201-16	MBHNE4	SAM	01/12/25 13:44		Kareem	OK
162	P5201-17	MBHNE5	SAM	01/12/25 13:48		Kareem	OK
163	P5201-18	MBHNE6	SAM	01/12/25 13:52		Kareem	OK
164	P5201-19	MBHNE7	SAM	01/12/25 13:56		Kareem	OK
165	CCV008	CCV008	CCV	01/12/25 14:00		Kareem	OK
166	CCB008	CCB008	CCB	01/12/25 14:04		Kareem	OK
167	P5201-20	MBHNE7D	DUP	01/12/25 14:09		Kareem	OK
168	P5201-19L	MBHNE7L	SD	01/12/25 14:13		Kareem	OK
169	P5201-21	MBHNE7S	MS	01/12/25 14:17	MS fail for As,Ba,Cu,Se	Kareem	OK
170	P5201-22	MBHNE8	SAM	01/12/25 14:20		Kareem	OK
171	P5210-01	MBHNC3	SAM	01/12/25 14:24		Kareem	OK
172	P5210-02	MBHNC4	SAM	01/12/25 14:28		Kareem	OK
173	P5210-03	MBHNC5	SAM	01/12/25 14:32		Kareem	OK
174	P5210-04	MBHNC6	SAM	01/12/25 14:36		Kareem	OK
175	P5210-05	MBHNC7	SAM	01/12/25 14:40	Ca high	Kareem	Dilution
176	P5210-06	MBHNC8	SAM	01/12/25 14:44	Ca high	Kareem	Dilution
177	P5210-07	MBHNH8	SAM	01/12/25 14:48		Kareem	OK
178	P5210-08	MBHNH9	SAM	01/12/25 14:52		Kareem	OK

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STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

179	P5210-09	MBHNJ0	SAM	01/12/25 14:56		Kareem	OK
180	P5210-10	MBHNJ0D	DUP	01/12/25 15:00		Kareem	OK
181	P5210-09L	MBHNJ0L	SD	01/12/25 15:05		Kareem	OK
182	P5210-11	MBHNJ0S	MS	01/12/25 15:09	MS fail for As,Ba,Cu,Se	Kareem	OK
183	P5210-12	MBHNJ1	SAM	01/12/25 15:13		Kareem	OK
184	P5210-13	MBHNJ2	SAM	01/12/25 15:17		Kareem	OK
185	P5210-14	MBHNL0	SAM	01/12/25 15:21	Ca high	Kareem	Dilution
186	P5210-15	MBHNL1	SAM	01/12/25 15:25		Kareem	OK
187	P5211-01	MBHMR4	SAM	01/12/25 15:29		Kareem	OK
188	CCV009	CCV009	CCV	01/12/25 15:55		Kareem	OK
189	CCB009	CCB009	CCB	01/12/25 16:00		Kareem	OK
190	P5211-20	MBHNL7	SAM	01/12/25 16:03		Kareem	OK
191	P5211-21	MBHNL7D	DUP	01/12/25 16:07		Kareem	OK
192	P5211-20L	MBHNL7L	SD	01/12/25 16:11		Kareem	OK
193	P5211-22	MBHNL7S	MS	01/12/25 16:16	MS fail for As,Mn,Se	Kareem	OK
194	P5212-05	MBHNF3	SAM	01/12/25 16:19		Kareem	OK
195	P5212-06	MBHNF3D	DUP	01/12/25 16:23		Kareem	OK
196	P5212-05L	MBHNF3L	SD	01/12/25 16:27		Kareem	OK
197	P5212-07	MBHNF3S	MS	01/12/25 16:31	MS fail for As,Ba,Be,Cr,Cu,Se,V,Zn	Kareem	OK

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ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

198	P5211-10	MBHN08	SAM	01/12/25 16:35		Kareem	OK
199	P5211-11	MBHN09	SAM	01/12/25 16:39		Kareem	OK
200	P5211-12	MBHN10	SAM	01/12/25 16:43		Kareem	OK
201	P5211-13	MBHN11	SAM	01/12/25 16:47		Kareem	OK
202	P5211-14	MBHN12	SAM	01/12/25 16:51		Kareem	OK
203	P5211-15	MBHN13	SAM	01/12/25 16:55		Kareem	OK
204	P5211-16	MBHN14	SAM	01/12/25 16:59		Kareem	OK
205	P5211-17	MBHN15	SAM	01/12/25 17:03		Kareem	OK
206	P5211-18	MBHN16	SAM	01/12/25 17:07		Kareem	OK
207	P5211-19	MBHN17	SAM	01/12/25 17:11		Kareem	OK
208	P5211-02	MBHMR5	SAM	01/12/25 17:15		Kareem	OK
209	P5211-03	MBHMR6	SAM	01/12/25 17:19		Kareem	OK
210	CCV010	CCV010	CCV	01/12/25 17:23		Kareem	OK
211	CCB010	CCB010	CCB	01/12/25 17:28		Kareem	OK
212	P5211-04	MBHMR7	SAM	01/12/25 17:32		Kareem	OK
213	P5211-05	MBHMR8	SAM	01/12/25 17:36		Kareem	OK
214	P5212-01	MBHN19	SAM	01/12/25 17:40		Kareem	OK
215	P5212-02	MBHNF0	SAM	01/12/25 17:44		Kareem	OK
216	P5212-03	MBHNF1	SAM	01/12/25 17:48		Kareem	OK
217	P5212-04	MBHNF2	SAM	01/12/25 17:52		Kareem	OK

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CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

218	P5211-06	MBHMR9	SAM	01/12/25 17:55		Kareem	OK
219	P5211-07	MBHMS0	SAM	01/12/25 17:59		Kareem	OK
220	P5211-08	MBHN06	SAM	01/12/25 18:03		Kareem	OK
221	P5211-09	MBHN07	SAM	01/12/25 18:07		Kareem	OK
222	P5212-09	MBHNJ4	SAM	01/12/25 18:11		Kareem	OK
223	P5212-10	MBHNF5	SAM	01/12/25 18:15		Kareem	OK
224	P5212-11	MBHNF6	SAM	01/12/25 18:19		Kareem	OK
225	P5212-12	MBHNL2	SAM	01/12/25 18:23		Kareem	OK
226	P5212-13	MBHNL3	SAM	01/12/25 18:27		Kareem	OK
227	P5212-14	MBHNL4	SAM	01/12/25 18:31		Kareem	OK
228	P5212-15	MBHNL5	SAM	01/12/25 18:35		Kareem	OK
229	P5212-16	MBHNL6	SAM	01/12/25 18:39		Kareem	OK
230	P5212-20	MBHNL8	SAM	01/12/25 18:43		Kareem	OK
231	P5212-21	MBHNL9	SAM	01/12/25 18:47		Kareem	OK
232	CCV011	CCV011	CCV	01/12/25 18:51		Kareem	OK
233	CCB011	CCB011	CCB	01/12/25 18:55		Kareem	OK
234	P5212-22	MBHNM0	SAM	01/12/25 19:00		Kareem	OK
235	P5212-23	MBHN18	SAM	01/12/25 19:04	Mn high	Kareem	Dilution
236	P5209-07DL	MBHMZ8	SAM	01/12/25 19:08	2x for Ca	Kareem	Confirms
237	P5206-01DL	MBHN53	SAM	01/12/25 19:12	5x for Ca,Mg	Kareem	Confirms

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CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

238	P5206-10DL	MBHN88	SAM	01/12/25 19:16	2x for Ca	Kareem	Confirms
239	P5197-20DL	MBHMS7	SAM	01/12/25 19:20	2x for Ca, Still Ca high	Kareem	Dilution
240	P5388-12DL	MH2D59	SAM	01/12/25 19:24	NOT USE	Kareem	Not Ok
241	P5210-05DL	MBHNC7	SAM	01/12/25 19:28	2x for Ca	Kareem	Confirms
242	P5210-06DL	MBHNC8	SAM	01/12/25 19:33	2x for Ca	Kareem	Confirms
243	P5197-07A	MBHMQ9A	PS	01/12/25 19:37	Ps for Se-0.007 MP84003 - 10 ml sample	Kareem	OK
244	P5201-19A	MBHNE7A	PS	01/12/25 19:41	PS for As-0.014 MP84000, Ba-0.012 M6032, Cu-0.0033 M5697, Se-0.007 MP84003 - 10 ml sample	Kareem	OK
245	P5206-02A	MBHN82A	PS	01/12/25 19:44	PS for As-0.0019 M5801, Cu-0.01 M5697, Se-0.007 MP84003, Zn-0.066 M5819 - 10 ml sample	Kareem	OK
246	P5208-11A	MBHNK4A	PS	01/12/25 19:48	PS for Se-0.007 MP84003, Zn-0.055 M5819 - 10 ml sample	Kareem	OK
247	P5209-14A	MBHN81A	PS	01/12/25 19:52	PS for Se-0.007 MP84003 - 10 ml sample	Kareem	OK
248	P5211-20A	MBHNL7A	PS	01/12/25 19:56	PS for As-0.0051 MP84000, Mn-0.074 M5698, Se-0.007 MP84003 - 10 ml sample	Kareem	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134242

Review By	Sarabjit Jaswal	Review On	1/13/2025 6:55:07 AM
Supervise By	Mohan Bera	Supervise On	1/13/2025 6:55:51 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

249	P5212-05A	MBHNF3A	PS	01/12/25 20:00	PS for As-0.0164 MP84000, Ba-0.03 M6032, Be-0.01 MP84001, Cr-0.003 M5658, Cu-0.007 M5697, Se-0.007 MP84003, V-0.0029 M6021, Zn-0.025 M5819 - 10 ml sample	Kareem	OK
250	P5210-09A	MBHNJ0A	PS	01/12/25 20:04	PS for As-0.011 MP84000, Ba-0.0082 M6032, Cu-0.004 M5697 , Se-0.007 MP84003 - 10 ml sample	Kareem	OK
251	CCV012	CCV012	CCV	01/12/25 20:08		Kareem	OK
252	CCB012	CCB012	CCB	01/12/25 20:17	Inst. paused for review	Kareem	OK
253	P5393-01	MH2D28	SAM	01/12/25 20:21	NOT USE	Kareem	Not Ok
254	P5393-02	MH2D31	SAM	01/12/25 20:25	NOT USE	Kareem	Not Ok
255	P5393-03	MH2D34	SAM	01/12/25 20:29	NOT USE	Kareem	Not Ok
256	P5393-04	MH2D37	SAM	01/12/25 20:33	NOT USE	Kareem	Not Ok
257	P5393-05	MH2D40	SAM	01/12/25 20:38	NOT USE	Kareem	Not Ok
258	P5393-06	MH2D43	SAM	01/12/25 20:42	NOT USE	Kareem	Not Ok
259	P5393-07	MH2D46	SAM	01/12/25 20:46	NOT USE	Kareem	Not Ok
260	P5393-08	MH2D49	SAM	01/12/25 20:50	NOT USE	Kareem	Not Ok
261	P5393-09	MH2D52	SAM	01/12/25 20:54	NOT USE	Kareem	Not Ok
262	P5393-10	MH2D55	SAM	01/12/25 20:58	NOT USE	Kareem	Not Ok
263	P5393-11	MH2D58	SAM	01/12/25 21:02	NOT USE	Kareem	Not Ok

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134242

Review By	Sarabjit Jaswal	Review On	1/13/2025 6:55:07 AM
Supervise By	Mohan Bera	Supervise On	1/13/2025 6:55:51 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

264	P5393-12	MH2D61	SAM	01/12/25 21:06	NOT USE	Kareem	Not Ok
265	P5393-13	MH2D64	SAM	01/12/25 21:11	NOT USE	Kareem	Not Ok
266	P5393-14	MH2D67	SAM	01/12/25 21:15	NOT USE	Kareem	Not Ok
267	P5393-15	MH2D70	SAM	01/12/25 21:19	NOT USE	Kareem	Not Ok
268	P5393-16	MH2D73	SAM	01/12/25 21:24	NOT USE	Kareem	Not Ok
269	P5393-17	MH2D76	SAM	01/12/25 21:28	NOT USE	Kareem	Not Ok
270	P5393-18	MH2D76D	DUP	01/12/25 21:32	NOT USE	Kareem	Not Ok
271	P5393-17L	MH2D76L	SD	01/12/25 21:36	NOT USE	Kareem	Not Ok
272	CCV013	CCV013	CCV	01/12/25 21:40		Kareem	OK
273	CCB013	CCB013	CCB	01/12/25 21:45		Kareem	OK
274	P5393-19	MH2D76S	MS	01/12/25 21:49	NOT USE	Kareem	Not Ok
275	PB165942TB	LEB942	MB	01/12/25 21:53	NOT USE	Kareem	Not Ok
276	P5392-01	MH2D27	SAM	01/12/25 21:57	NOT USE	Kareem	Not Ok
277	P5392-02	MH2D30	SAM	01/12/25 22:01	NOT USE	Kareem	Not Ok
278	P5392-03	MH2D33	SAM	01/12/25 22:06	NOT USE	Kareem	Not Ok
279	P5392-04	MH2D36	SAM	01/12/25 22:10	NOT USE	Kareem	Not Ok
280	P5392-05	MH2D39	SAM	01/12/25 22:14	NOT USE	Kareem	Not Ok
281	P5392-06	MH2D42	SAM	01/12/25 22:18	NOT USE	Kareem	Not Ok
282	P5392-07	MH2D45	SAM	01/12/25 22:22	NOT USE	Kareem	Not Ok
283	P5392-08	MH2D48	SAM	01/12/25 22:26	NOT USE	Kareem	Not Ok

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Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134242

Review By	Sarabjit Jaswal	Review On	1/13/2025 6:55:07 AM
Supervise By	Mohan Bera	Supervise On	1/13/2025 6:55:51 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

284	P5392-09	MH2D51	SAM	01/12/25 22:31	NOT USE	Kareem	Not Ok
285	P5392-10	MH2D54	SAM	01/12/25 22:35	NOT USE	Kareem	Not Ok
286	P5392-11	MH2D57	SAM	01/12/25 22:39	NOT USE	Kareem	Not Ok
287	P5392-12	MH2D60	SAM	01/12/25 22:43	NOT USE	Kareem	Not Ok
288	P5392-13	MH2D63	SAM	01/12/25 22:47	NOT USE	Kareem	Not Ok
289	P5392-14	MH2D66	SAM	01/12/25 22:51	NOT USE	Kareem	Not Ok
290	P5392-15	MH2D69	SAM	01/12/25 22:55	NOT USE	Kareem	Not Ok
291	P5392-16	MH2D72	SAM	01/12/25 23:00	NOT USE	Kareem	Not Ok
292	P5392-17	MH2D75	SAM	01/12/25 23:04	NOT USE	Kareem	Not Ok
293	P5392-18	MH2D75D	DUP	01/12/25 23:08	NOT USE	Kareem	Not Ok
294	P5392-17L	MH2D75L	SD	01/12/25 23:13	NOT USE	Kareem	Not Ok
295	CCV014	CCV014	CCV	01/12/25 23:17	K,Tl fail	Kareem	OK
296	CCB014	CCB014	CCB	01/12/25 23:21		Kareem	OK
297	P5392-19	MH2D75S	MS	01/12/25 23:25	NOT USE	Kareem	Not Ok
298	PB165941TB	LEB941	MB	01/12/25 23:29	NOT USE	Kareem	Not Ok
299	P5212-23DL	MBHN18	SAM	01/12/25 23:34	5x for Mn	Kareem	Confirms
300	CCV015	CCV015	CCV	01/12/25 23:38	Al,Ca,K fail	Kareem	OK
301	CCB015	CCB015	CCB	01/12/25 23:42		Kareem	OK

ORIGIN ID:BUFA (716) 853-1220
EMMANUEL GARCIAVILLAR
WSP USA INC.
50 LAKEFRONT BLVD

BUFFALO, NY 14202
UNITED STATES US

SHIP DATE: 06DEC24
ACTWGT: 40.00 LB
CAD: 108450087/INET4760
DIMS: 19x14x12 IN

BILL SENDER

TO **MOHAMMAD AHMED**
ALLIANCE TECHNICAL GROUP LLC
284 SHEFFIELD STREET

MOUNTAINSIDE NJ 07092
(908) 789-8900 REF: US000650
INV: 03.02.02.EXP
PO: 31800192.009A DEPT: EMMANUEL GARCIA

58CJ4/EB78/C8C4

FedEx Express

5 of 8

MPS# 0263 7705 5866 0393
Mstr# 7705 5865 9768

SATURDAY 1:30P
PRIORITY OVERNIGHT

0201

07092
NJ-US EWR

X0 KBCA

1:30 0393 07

After printing this label:
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1. Fold the printed page along the horizontal line.
2. Place label in shipping pouch and affix it to your shipment.

724

Dan
12/7/24 9:55
1.5 C

Alliance TECHNICAL GROUP 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Login Summary Report

Order ID :	P5206	Order Date :	12/7/2024 9:55:00 AM	Project Mgr :	Deepak
Client :	USEPA CLP SMO	Project :	51879	Report Type :	USEPA CLP
Contact :	Anita Kapadia	Receive Date :	12/7/2024 9:55:00 AM	EDD Type :	EPA CLP
Date Sign Off :	12/9/2024 12:15:23 PM				

Sample ID	Client ID	Matrix	Sampling Date	Test	Test Group	Method	TAT Days	Fax Due Date	HC Due Date
P5206-01	MBHN53	Solid	11/21/2024						
				Metals CLP Full		SFAM_AES	15	01/13/2025	01/13/2025
				Percent Solids		Chemtech -SOP	15	01/13/2025	01/13/2025
P5206-02	MBHN82	Solid	11/20/2024						
				Metals CLP Full		SFAM_AES	15	01/13/2025	01/13/2025
				Percent Solids		Chemtech -SOP	15	01/13/2025	01/13/2025
P5206-03	MBHN82D	Solid	11/20/2024						
				Metals CLP Full		SFAM_AES	15	01/13/2025	01/13/2025
				Percent Solids		Chemtech -SOP	15	01/13/2025	01/13/2025
P5206-04	MBHN82S	Solid	11/20/2024						
				Metals CLP Full		SFAM_AES	15	01/13/2025	01/13/2025
				Percent Solids		Chemtech -SOP	15	01/13/2025	01/13/2025
P5206-05	MBHN83	Solid	11/20/2024						
				Metals CLP Full		SFAM_AES	15	01/13/2025	01/13/2025
				Percent Solids		Chemtech -SOP	15	01/13/2025	01/13/2025
P5206-06	MBHN84	Solid	11/20/2024						
				Metals CLP Full		SFAM_AES	15	01/13/2025	01/13/2025
				Percent Solids		Chemtech -SOP	15	01/13/2025	01/13/2025
P5206-07	MBHN85	Solid	11/20/2024						
				Metals CLP Full		SFAM_AES	15	01/13/2025	01/13/2025
				Percent Solids		Chemtech -SOP	15	01/13/2025	01/13/2025
P5206-08	MBHN86	Solid	11/20/2024						
				Metals CLP Full		SFAM_AES	15	01/13/2025	01/13/2025
				Percent Solids		Chemtech -SOP	15	01/13/2025	01/13/2025
P5206-09	MBHN87	Solid	11/20/2024						
				Metals CLP Full		SFAM_AES	15	01/13/2025	01/13/2025
				Percent Solids		Chemtech -SOP	15	01/13/2025	01/13/2025
P5206-10	MBHN88	Solid	11/20/2024						
				Metals CLP Full		SFAM_AES	15	01/13/2025	01/13/2025
				Percent Solids		Chemtech -SOP	15	01/13/2025	01/13/2025

P5206-11	MBHNA1	Solid	11/20/2024					
				Metals CLP Full	SFAM_AES	15	01/13/2025	01/13/2025
				Percent Solids	Chemtech -SOP	15	01/13/2025	01/13/2025
P5206-12	MBHNA2	Solid	11/20/2024					
				Metals CLP Full	SFAM_AES	15	01/13/2025	01/13/2025
				Percent Solids	Chemtech -SOP	15	01/13/2025	01/13/2025
P5206-13	MBHNA3	Solid	11/20/2024					
				Metals CLP Full	SFAM_AES	15	01/13/2025	01/13/2025
				Percent Solids	Chemtech -SOP	15	01/13/2025	01/13/2025
P5206-14	MBHNA4	Solid	11/20/2024					
				Metals CLP Full	SFAM_AES	15	01/13/2025	01/13/2025
				Percent Solids	Chemtech -SOP	15	01/13/2025	01/13/2025
P5206-15	MBHNA5	Solid	11/20/2024					
				Metals CLP Full	SFAM_AES	15	01/13/2025	01/13/2025
				Percent Solids	Chemtech -SOP	15	01/13/2025	01/13/2025
P5206-16	MBHNA6	Solid	11/20/2024					
				Metals CLP Full	SFAM_AES	15	01/13/2025	01/13/2025
				Percent Solids	Chemtech -SOP	15	01/13/2025	01/13/2025
P5206-17	MBHNA7	Solid	11/20/2024					
				Metals CLP Full	SFAM_AES	15	01/13/2025	01/13/2025
				Percent Solids	Chemtech -SOP	15	01/13/2025	01/13/2025
P5206-18	MBHNJ9	Solid	11/20/2024		FD			
				Metals CLP Full	SFAM_AES	15	01/13/2025	01/13/2025
				Percent Solids	Chemtech -SOP	15	01/13/2025	01/13/2025
P5206-19	MBHNK0	Solid	11/20/2024		FD			
				Metals CLP Full	SFAM_AES	15	01/13/2025	01/13/2025
				Percent Solids	Chemtech -SOP	15	01/13/2025	01/13/2025

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB165911 **WorkList ID :** 186689 **Department :** Digestion **Date :** 12-30-2024 09:45:50

727

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5206-01	MBHN53	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C43	11/21/2024	SFAM_AES
P5206-02	MBHN82	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C43	11/20/2024	SFAM_AES
P5206-03	MBHN82D	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C43	11/20/2024	SFAM_AES
P5206-04	MBHN82S	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C43	11/20/2024	SFAM_AES
P5206-05	MBHN83	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C43	11/20/2024	SFAM_AES
P5206-06	MBHN84	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C43	11/20/2024	SFAM_AES
P5206-07	MBHN85	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C43	11/20/2024	SFAM_AES
P5206-08	MBHN86	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C43	11/20/2024	SFAM_AES
P5206-09	MBHN87	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C43	11/20/2024	SFAM_AES
P5206-10	MBHN88	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C43	11/20/2024	SFAM_AES
P5206-11	MBHNA1	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C43	11/20/2024	SFAM_AES
P5206-12	MBHNA2	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C43	11/20/2024	SFAM_AES
P5206-13	MBHNA3	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C43	11/20/2024	SFAM_AES
P5206-14	MBHNA4	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C43	11/20/2024	SFAM_AES
P5206-15	MBHNA5	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C43	11/20/2024	SFAM_AES
P5206-16	MBHNA6	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C43	11/20/2024	SFAM_AES
P5206-17	MBHNA7	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C43	11/20/2024	SFAM_AES
P5206-18	MBHNJ9	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C43	11/20/2024	SFAM_AES
P5206-19	MBHNK0	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C43	11/20/2024	SFAM_AES

Date/Time 12/30/24 10:10
Raw Sample Received by: S120. mct. digestion
Raw Sample Relinquished by: Jay/Sml

Date/Time 12/30/24 11:20
Raw Sample Received by: Jay/Sml
Raw Sample Relinquished by: S K9. mct digestion